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Welcome to the University of Arkansas

This catalog of studies is a comprehensive reference for your years of study – a list of degrees and courses offered at the University of Arkansas. In addition, it gives you valuable information such as suggested and required degree plans and information about costs, scholarships and financial assistance, and campus resources. Read it with pleasure and with care.

Take every opportunity to consult your academic adviser to ensure that you are taking advantage of courses and university resources that will help you reach your educational and career goals and graduate on time. If you are not sure where to find your academic adviser, contact the dean’s office of your college; the phone numbers are listed under Contact Information (http://catalog.uark.edu/undergraduatecatalog/contactinformation). If your major is “undecided,” contact the advising office in the J. William Fulbright College of Arts and Sciences at 479-575-3307.

Remember, the University of Arkansas is committed to your success. The faculty and staff are here to support you as you work to achieve your goals. Ask for help and advice whenever you need it.

The University of Arkansas is committed to the policy of providing educational opportunities to all qualified students regardless of their economic or social status and will not discriminate on the basis of race, color, sex, creed, sexual orientation, disability, veteran’s status, age, marital or parental status, or national origin.
General Information

Vision
By 2021, the University of Arkansas will be recognized as one of the nation's top 50 public research universities with nationally ranked departments and programs throughout the institution.

Quick Facts
- **Location**: Fayetteville, Arkansas
- **Founded**: 1871
- **Enrollment**: 26,237 (Fall 2014)
- **Average ACT**: 26
- **Average high school GPA**: 3.6
- **Mission**: The mission of the University of Arkansas is to provide an internationally competitive education for undergraduate and graduate students in a wide spectrum of disciplines; contribute new knowledge, economic development, basic and applied research and creative activity; and provide service to academic/professional disciplines and society, all aimed at fulfilling its public land-grant mission to serve Arkansas and beyond as a partner, resource, and catalyst.

History
Founded in 1871 as a land-grant college and state university, the University of Arkansas established its campus on a hilltop overlooking the Ozark Mountains. There were few facilities and little money that first academic year, but in the eight students and three faculty members who gathered for the first classes in January 1872 showed the same dedication to learning and commitment to excellence that has carried the University of Arkansas into the 21st century.

More than 140 years later, the university’s enrollment has passed 26,000, and its students represent all 50 states and 120 countries. The university is the state’s foremost partner and resource for education and economic development. It serves as the major provider of graduate-level instruction and its students represent all 50 states and 120 countries. The university since Reconstruction. A veteran of World War II, Hunt was a tribute to the first black student to integrate a major Southern public university without litigation into the University of Arkansas School of Law in 1948.

Old Main — This architectural centerpiece of campus opened for classes in 1875, making it the oldest building at the University of Arkansas. Visit the restored classrooms, take a closer look at the inner workings of the tower clock on the fourth floor and enjoy the shade of the trees on the Old Main Lawn.

The Inn at Carnall Hall — Built in 1905, the first women’s residence hall on campus is now a historic inn. The Inn at Carnall Hall is also home to the award-winning Ella’s Restaurant and Lambeth Lounge, the perfect spot for a little R&R on campus.

Silas Hunt Memorial Sculpture — Near Old Main, you’ll find this tribute to the first black student to integrate a major Southern public university since Reconstruction. A veteran of World War II, Hunt was admitted without litigation into the University of Arkansas School of Law in 1948.

Pi Beta Phi Centennial Gate — A new landmark, the gate serves as a formal entrance to the university’s historic core. The striking entranceway was a gift, commemorating the first 100 years of Pi Beta Phi on campus.

Il Porcellino — This wild boar statue with fountain is a replica of the original Il Porcellino, in Florence, Italy. The Italian title of the statue means “piglet” and comes from the local Florentine nickname for the statue. One of many Razorback tributes on campus!

Razorback Stadium/Hall of Champions Museum — Donald W. Reynolds Razorback Stadium is one of the finest collegiate football facilities in the nation and home to the Jerry Jones/Jim Lindsey Hall

As you make your way around campus, you’re sure to notice something unique about many of the sidewalks. Historic Senior Walk showcases the names of more than 170,000 University of Arkansas graduates, grouped by year of graduation starting with the Class of 1876. A long tradition in both time and mileage, it’s concrete proof of the university’s commitment to students.

You won’t be able to discover everything the university has to offer in a day, but here are a few attractions that you don’t want to miss.

- **The Arkansas Union** — A primary gathering place for more than 40 years, the Arkansas Union serves as a place for students to attend educational and cultural events, access campus resources, eat, study and just meet friends between classes. The facility offers a food court, fitness center, technology center, bank, post office, Razorback shop, art gallery, theatre and much more.
- **Jim and Joyce Faulkner Performing Arts Center** — The university’s old Field House, in which such legendary performers as Chuck Berry, Louis Armstrong and Peter, Paul and Mary have performed, was renovated recently into a 600-seat acoustically tuned performance hall. More than 200 musical concerts, operas and theatrical performances occur in the course of each year.
- **Chi Omega Greek Theatre** — The Chi Omega Greek Theatre, based on the designs of ancient Greece, is a popular place for concerts, pep rallies or just catching some rays between classes. Chi Omega, founded at the U of A in 1895 and now the largest women’s fraternity in the nation, donated the Greek Theatre in 1930.
- **Fulbright Peace Fountain and Statue** — These two impressive landmarks commemorate the legacy of the late U.S. Senator J. William Fulbright, a graduate and former president of the University of Arkansas. Fulbright famously helped create the Fulbright Scholarship Program, the largest international exchange program of its kind. Internationally renowned architect E. Fay Jones, a U of A graduate and former dean of the School of Architecture, designed the Peace Statue.
- **Old Main** — This architectural centerpiece of campus opened for classes in 1875, making it the oldest building at the University of Arkansas. Visit the restored classrooms, take a closer look at the inner workings of the tower clock on the fourth floor and enjoy the shade of the trees on the Old Main Lawn.
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- **Razorback Stadium/Hall of Champions Museum** — Donald W. Reynolds Razorback Stadium is one of the finest collegiate football facilities in the nation and home to the Jerry Jones/Jim Lindsey Hall
of Champions Museum, located in the Frank Broyles Athletic Center. Bud Walton Arena houses two more athletic museums.

- **Walmart On Campus** — The nation’s first Walmart on Campus is also the smallest Walmart in the country. It’s located in the Garland Center, which also includes the U of A Bookstore as well as boutiques, salons and dining options.

The campus features many other landmarks and noteworthy facilities including the Clinton House, the small brick home on campus in which future President Bill Clinton and future Secretary of State Hillary Rodham Clinton lived while both served on the U of A’s law school faculty.

Fayetteville is routinely considered among the country’s finest college towns, and the area is regularly ranked as one of the best places in the United States to live, raise a family, work, play and retire. A thriving city of 77,000, Fayetteville is located in the hilly northwest corner of the state.

Quickly gaining recognition as a nationwide center for arts and culture, the region is home to Crystal Bridges Museum of American Art. This world-class museum features a permanent collection of art spanning five centuries, from the Colonial era to the current day. The collection includes several works considered masterpieces. Crystal Bridges also offers miles of wilderness trails and a unique dining experience. If that’s not enough, admission is free. Another major cultural amenity, the Walton Arts Center, is located just two blocks from campus, where Broadway touring shows appear regularly.

Dickson Street, one of the state’s most popular entertainment districts, is also just a short walk from campus. A part of Fayetteville’s downtown historic district, Dickson Street offers a variety of restaurants, boutiques, galleries, and clubs unique to the area. Fayetteville’s historic square, College Avenue and the area around the Northwest Arkansas Mall are also great places for shopping and dining. The Fayetteville Farmers’ Market, an area tradition since 1974, was recently named one of “America’s Favorite Farmers’ Markets.”

Nearby Rogers offers the region’s newest open-air shopping experience with many of the nation’s most popular shops and eateries. And Eureka Springs, a Victorian mountain village known as the “Little Switzerland of the Ozarks,” offers more than 100 specialty shops and 70 restaurants about 45 minutes from campus.

Arkansas is a natural wonder of forests, mountains and lakes framed by picturesque rivers and streams. Some of the nation’s best outdoor amenities and most spectacular hiking trails are within a short drive of campus. Devil’s Den State Park is a short distance south of Fayetteville. Beaver Lake is 30 minutes to the northeast. Hawksbill Crag and the Buffalo National River, America’s first National River and one of the few remaining undammed rivers in the lower 48 states, are an hour’s drive to the east. The Razorback Greenway, a 36-mile bicycle route, runs from campus north to Bella Vista. Even closer to campus, Fayetteville’s Botanical Garden of the Ozarks offers another outdoor option.

Northwest Arkansas is one of the most economically stable regions in the nation and serves as the base of operations for Walmart, Tyson Foods Inc. and J.B. Hunt Transport Services. Because of their presence, many other corporations have established primary or secondary headquarters in the region. Their close proximity to the U of A campus, along with their executives’ and employees’ active involvement in university life, offers students and faculty exceptional opportunities for research partnerships, internships, and post-graduation employment.

The Northwest Arkansas Regional Airport has direct flights to most major metropolitan areas, including Atlanta, Chicago, Cincinnati, Charlotte, Dallas, Denver, Houston, Las Vegas, Los Angeles, Minneapolis, San Francisco, New York, Newark and Orlando; and, Fayetteville is within a day’s drive of several larger metropolitan areas, including Dallas, Kansas City, Little Rock, Memphis, St. Louis and Tulsa.
### Contact Information

See the University of Arkansas Directory (http://directory.uark.edu) for a more comprehensive directory of offices and personnel.

#### Admissions

<table>
<thead>
<tr>
<th>Type</th>
<th>Address</th>
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<tbody>
<tr>
<td>Undergraduate Admissions</td>
<td>232 Silas H. Hunt Hall</td>
<td>479-575-5346</td>
</tr>
<tr>
<td>School of Law Admissions</td>
<td>193 Waterman Hall</td>
<td>479-575-4504</td>
</tr>
<tr>
<td>Graduate School Admissions</td>
<td>213 Ozark Hall</td>
<td>479-575-6246</td>
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<tr>
<td>International Admissions</td>
<td>213 Ozark Hall</td>
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#### Campus Tours & Visits

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<thead>
<tr>
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<tr>
<td>Office of Admissions</td>
<td>232 Silas H. Hunt Hall</td>
<td>479-575-5346</td>
</tr>
<tr>
<td>Graduate School Admissions</td>
<td>213 Ozark Hall</td>
<td>479-575-6246</td>
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#### Distance Education

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<tbody>
<tr>
<td>Global Campus, School of</td>
<td>2 E. Center St., Continuing Education and Academic Outreach</td>
<td>479-575-6483</td>
</tr>
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#### Deans’ Offices

<table>
<thead>
<tr>
<th>Type</th>
<th>Address</th>
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<tbody>
<tr>
<td>Honors College</td>
<td>244 Ozark Hall</td>
<td>479-575-7678</td>
</tr>
<tr>
<td>Dale Bumpers College of</td>
<td>E-108 Agricultural, Food and Life Sciences Bldg</td>
<td>479-575-2252</td>
</tr>
<tr>
<td>Fay Jones School of Architecture</td>
<td>240 Vol Walker Hall</td>
<td>479-575-4945</td>
</tr>
<tr>
<td>J. William Fulbright College of Arts &amp; Sciences</td>
<td>525 Old Main</td>
<td>479-575-4801</td>
</tr>
<tr>
<td>Sam M. Walton College of Business</td>
<td>301 Business Building</td>
<td>479-575-5949</td>
</tr>
<tr>
<td>College of Education and Health Professions</td>
<td>324 Graduate Education Bldg.</td>
<td>479-575-3208</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>4183 Bell Engineering Center</td>
<td>479-575-6012</td>
</tr>
<tr>
<td>Graduate School and International Education</td>
<td>213 Ozark Hall</td>
<td>479-575-4401</td>
</tr>
<tr>
<td>School of Law</td>
<td>166 Waterman Hall</td>
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#### Enrollment Services

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<tr>
<th>Type</th>
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<tbody>
<tr>
<td>Vice Provost of Enrollment and Dean of Admissions</td>
<td>232 Silas H. Hunt Hall</td>
<td>479-575-3771</td>
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<td>Global Campus, School of</td>
<td>2 E. Center St., Continuing Education and Academic Outreach</td>
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#### Fee Payments

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<th>Type</th>
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<tbody>
<tr>
<td>Student Accounts</td>
<td>Arkansas Union Room</td>
<td>479-575-5651</td>
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#### Financial Aid and Scholarships

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<tr>
<th>Type</th>
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<tbody>
<tr>
<td>Office of Financial Aid</td>
<td>114 Silas H. Hunt Hall</td>
<td>479-575-3806</td>
</tr>
<tr>
<td>Academic Scholarship Office</td>
<td>114 Silas H. Hunt Hall</td>
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#### Greek Life

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<tr>
<td>Walton Hall</td>
<td>Charles and Cappy Whiteside Greek Life Center</td>
<td>479-575-5001</td>
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#### Honors Programs

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<td>Dean’s Office AFLS</td>
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<td>479-575-2252</td>
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<td>240 Vol Walker Hall</td>
<td>479-575-4945</td>
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<tr>
<td>Sam M. Walton College of Business</td>
<td>WCOB 328</td>
<td>479-575-4622</td>
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<tr>
<td>College of Education and Health Professions</td>
<td>Office of the Associate Dean, GRAD 317</td>
<td>479-575-4205</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>BELL 3189</td>
<td>479-575-5412</td>
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#### Housing

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<tr>
<td>University Housing</td>
<td>410 Arkansas Avenue</td>
<td>479-575-3951</td>
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#### International Students

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<tr>
<td>International Admissions</td>
<td>213 Ozark Hall</td>
<td>479-575-6246</td>
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<tr>
<td>International Students and Scholars</td>
<td>104 Holcombe Hall</td>
<td>479-575-5003</td>
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#### New Student Orientation

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<tr>
<td>Admissions</td>
<td>232 Silas H. Hunt Hall</td>
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<tr>
<td>International Students and Scholars</td>
<td>104 Holcombe Hall</td>
<td>479-575-5003</td>
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<td>Graduate School</td>
<td>213 Ozark Hall</td>
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#### Registration

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<th>Type</th>
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<tbody>
<tr>
<td>Office of the Registrar</td>
<td>Main Office: 141 Uptown East (UPTE)</td>
<td>479-575-5451</td>
</tr>
<tr>
<td></td>
<td>Campus Office: 146 Silas H. Hunt Hall (HUNT)</td>
<td>479-575-5451</td>
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#### ROTC

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<tbody>
<tr>
<td>Air Force ROTC</td>
<td>319 Memorial Hall</td>
<td>479-575-3651</td>
</tr>
<tr>
<td>Army ROTC</td>
<td>207 Military Science Building</td>
<td>479-575-4251</td>
</tr>
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#### Student Affairs

<table>
<thead>
<tr>
<th>Type</th>
<th>Address</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Vice Provost for Student Affairs and Dean of Students</td>
<td>325 Administration Building</td>
<td>479-575-5007</td>
</tr>
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#### Testing (ACT, CLEP, LSAT, GRE, etc.)

<table>
<thead>
<tr>
<th>Type</th>
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<tbody>
<tr>
<td>Testing Services</td>
<td>1435 W. Walton St., TEST 200</td>
<td>479-575-3948</td>
</tr>
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</table>

#### Testing (ACT, CLEP, LSAT, GRE, etc.)
Toll-Free Number
Toll-Free Number 1-800-377-8632

The following offices may be reached by dialing this toll-free number between 8 a.m. and 4:30 p.m. each weekday:

- Office of Admissions (undergraduate)
- Office of Scholarships and Financial Aid
- New Student Orientation

Transcripts, Academic Records
Office of the Registrar
Main Office: 141 Uptown East (UPTE) 479-575-5451
Campus Office: 146 Silas H. Hunt Hall (HUNT) 479-575-5451

University Switchboard
University Switchboard 479-575-2000

Veterans Affairs
Veterans Resource and Information Center 632 Arkansas Union 479-575-8742

University of Arkansas
An office and building address from above 1 University of Arkansas Area Code: 479
Fayetteville, AR 72701
## Academic Calendar

### May Intersession 2016 - (10 Class Days/1 Final Day)
Classes will meet on Saturdays

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>May 16</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>May 16</td>
<td>Last day to register, add a course, or change from audit to credit</td>
</tr>
<tr>
<td>May 17</td>
<td>Last day to drop without a mark of &quot;W&quot; or change from credit to audit</td>
</tr>
<tr>
<td>May 23</td>
<td>Last day to drop a May Intersession class with a &quot;W&quot;</td>
</tr>
<tr>
<td>May 26</td>
<td>Last day to officially withdraw from the May Intersession</td>
</tr>
<tr>
<td>May 26</td>
<td>Last day of classes for the May Intersession</td>
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<tr>
<td>May 22</td>
<td>Final Exams</td>
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### Summer Session 2016 - 10 Week (48 Class Days)

<table>
<thead>
<tr>
<th>Date</th>
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</tr>
</thead>
<tbody>
<tr>
<td>May 30</td>
<td>Memorial Day Holiday</td>
</tr>
<tr>
<td>May 31</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>June 2</td>
<td>Last day to register, add a course, or change from audit to credit</td>
</tr>
<tr>
<td>June 8</td>
<td>Last day to drop without a mark of &quot;W&quot; or change from credit to audit</td>
</tr>
<tr>
<td>July 4</td>
<td>Independence Day Holiday</td>
</tr>
<tr>
<td>July 15</td>
<td>Last day to drop a 10 Week class with a &quot;W&quot;</td>
</tr>
<tr>
<td>August 5</td>
<td>Last day to officially withdraw from the 10 Week session</td>
</tr>
<tr>
<td>August 5</td>
<td>Last day of classes for the 10 Week session</td>
</tr>
</tbody>
</table>

### Summer Session 2016 - First 5 Week (24 Class Days)

<table>
<thead>
<tr>
<th>Date</th>
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</tr>
</thead>
<tbody>
<tr>
<td>May 30</td>
<td>Memorial Day Holiday</td>
</tr>
<tr>
<td>May 31</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>June 1</td>
<td>Last day to register, add a course, or change from audit to credit</td>
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<tr>
<td>June 2</td>
<td>Last day to drop without a mark of &quot;W&quot; or change from credit to audit</td>
</tr>
<tr>
<td>June 22</td>
<td>Last day to drop a First 5 Week class with a &quot;W&quot;</td>
</tr>
<tr>
<td>July 1</td>
<td>Last day to officially withdraw from the First 5 Week session</td>
</tr>
<tr>
<td>July 1</td>
<td>Last day of classes for the First 5 Week session</td>
</tr>
</tbody>
</table>

### Summer Session 2016 - Second 5 Week (24 Class Days)

<table>
<thead>
<tr>
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<tbody>
<tr>
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<tr>
<td>July 4</td>
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</tr>
<tr>
<td>July 5</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>July 6</td>
<td>Last day to register, add a course, or change from audit to credit</td>
</tr>
<tr>
<td>July 7</td>
<td>Last day to drop without a mark of &quot;W&quot; or change from credit to audit</td>
</tr>
<tr>
<td>July 27</td>
<td>Last day to drop a Second 5 Week class with a &quot;W&quot;</td>
</tr>
<tr>
<td>August 5</td>
<td>Last day to officially withdraw from the Second 5 Week session</td>
</tr>
<tr>
<td>August 5</td>
<td>Last day of classes for the Second 5 Week session</td>
</tr>
</tbody>
</table>

### Summer Session 2016 - 8 Week (37 Class Days)

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>May 30</td>
<td>Memorial Day Holiday</td>
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<td>May 31</td>
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<td>June 6</td>
<td>Last day to drop without a mark of &quot;W&quot; or change from credit to audit</td>
</tr>
<tr>
<td>July 4</td>
<td>Independence Day Holiday</td>
</tr>
<tr>
<td>Date</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>July 8</td>
<td>Last day to drop an 8 Week session class with a &quot;W&quot;</td>
</tr>
<tr>
<td>July 21</td>
<td>Last day to officially withdraw from the 8 Week session</td>
</tr>
<tr>
<td>July 21</td>
<td>Last day of classes for the 8 Week session</td>
</tr>
</tbody>
</table>

### August Intersession 2016 - (10 Class Days/1 Final Day)

**Classes will meet on Saturdays**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 8</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>August 8</td>
<td>Last day to register, add a course, or change from audit to credit</td>
</tr>
<tr>
<td>August 9</td>
<td>Last day to drop without a mark of &quot;W&quot; or change from credit to audit</td>
</tr>
<tr>
<td>August 15</td>
<td>Last day to drop an August Intersession class with a &quot;W&quot;</td>
</tr>
<tr>
<td>August 18</td>
<td>Last day to officially withdraw from the August Intersession</td>
</tr>
<tr>
<td>August 18</td>
<td>Last day of classes for the August Intersession</td>
</tr>
<tr>
<td>August 19</td>
<td>Final Exams</td>
</tr>
</tbody>
</table>

### Fall 2016 - (73 Class Days; 43 MWF, 30 TT)

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 22</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>August 26</td>
<td>Last day to register, add a course, or change from audit to credit</td>
</tr>
<tr>
<td>September 2</td>
<td>Last day to drop without a mark of &quot;W&quot; or change from credit to audit</td>
</tr>
<tr>
<td>September 5</td>
<td>Labor Day Holiday</td>
</tr>
<tr>
<td>October 17-18</td>
<td>Fall Break (student break; University offices will be open)</td>
</tr>
<tr>
<td>October 31</td>
<td>Priority Registration for Spring 2017 begins for currently enrolled students</td>
</tr>
<tr>
<td>November 18</td>
<td>Last day to drop a full semester class with a &quot;W&quot;</td>
</tr>
<tr>
<td>November 23</td>
<td>Thanksgiving Break (student break; University offices will be open)</td>
</tr>
<tr>
<td>November 24-25</td>
<td>Thanksgiving Holiday</td>
</tr>
<tr>
<td>December 8</td>
<td>Last day to officially withdraw from all classes</td>
</tr>
<tr>
<td>December 8</td>
<td>Last day of classes for fall semester</td>
</tr>
<tr>
<td>December 9</td>
<td>Dead Day</td>
</tr>
<tr>
<td>December 12-16</td>
<td>Final Exams</td>
</tr>
<tr>
<td>December 17</td>
<td>Commencement</td>
</tr>
</tbody>
</table>

### 2017 Academic Calendar

#### January Intersession 2017 - (10 Class Days/1 Final Day)

**Classes will meet on Saturday, January 9**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 3</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>January 3</td>
<td>Last day to register, add a course, or change from audit to credit</td>
</tr>
<tr>
<td>January 4</td>
<td>Last day to drop without a mark of &quot;W&quot; or change from credit to audit</td>
</tr>
<tr>
<td>January 10</td>
<td>Last day to drop a January Intersession class with a &quot;W&quot;</td>
</tr>
<tr>
<td>January 13</td>
<td>Last day to officially withdraw from the January Intersession</td>
</tr>
<tr>
<td>January 13</td>
<td>Last day of classes for the January Intersession</td>
</tr>
<tr>
<td>January 14</td>
<td>Final Exams</td>
</tr>
</tbody>
</table>

### Spring 2017 - (73 Class Days; 43 MWF, 30 TT)

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 16</td>
<td>Martin Luther King Day</td>
</tr>
<tr>
<td>January 17</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>January 23</td>
<td>Last day to register, add a course, or change from audit to credit</td>
</tr>
<tr>
<td>January 30</td>
<td>Last day to drop without a mark of &quot;W&quot; or change from credit to audit</td>
</tr>
<tr>
<td>March 20-24</td>
<td>Spring Break Week</td>
</tr>
<tr>
<td>Date</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>April 3</td>
<td>Priority Registration for Summer and Fall 2017 terms begins for currently</td>
</tr>
<tr>
<td></td>
<td>enrolled students</td>
</tr>
<tr>
<td>April 21</td>
<td>Last day to drop a full semester class with a &quot;W&quot;</td>
</tr>
<tr>
<td>May 4</td>
<td>Last day to officially withdraw from all classes</td>
</tr>
<tr>
<td>May 4</td>
<td>Last day of classes for spring semester</td>
</tr>
<tr>
<td>May 5</td>
<td>Dead Day</td>
</tr>
<tr>
<td>May 8-12</td>
<td>Final Exams</td>
</tr>
<tr>
<td>May 12-13</td>
<td>Commencement</td>
</tr>
<tr>
<td>May 20</td>
<td>Law School Commencement</td>
</tr>
</tbody>
</table>

**May Intersession 2017 - (10 Class Days/1 Final Day)**
Classes will meet on Saturday, May 21

<table>
<thead>
<tr>
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<tr>
<td>May 15</td>
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<td>May 16</td>
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<tr>
<td>May 22</td>
<td>Last day to drop a May Intersession class with a &quot;W&quot;</td>
</tr>
<tr>
<td>May 25</td>
<td>Last day to officially withdraw from the May Intersession</td>
</tr>
<tr>
<td>May 25</td>
<td>Last day of classes for the May Intersession</td>
</tr>
<tr>
<td>May 26</td>
<td>Final Exams</td>
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**Summer Session 2017 - 10 Week (48 Class Days)**

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<tr>
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<tbody>
<tr>
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<td>May 30</td>
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<td>July 4</td>
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<td>August 4</td>
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**Summer Session 2017 - First 5 Week (24 Class Days)**

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**Summer Session 2017 - Second 5 Week (24 Class Days)**

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**Summer Session 2017 - 8 Week (37 Class Days)**

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</table>
Board of Trustees

The trustees of the University of Arkansas System are appointed by the governor of Arkansas to 10-year overlapping terms. The board sets policy for the University of Arkansas as well as other universities, colleges and institutes within the system.

Ben Hyneman, chair
Ben Hyneman of Jonesboro is president of Southern Property & Casualty Insurance Co. He is former commissioner and chair of the Arkansas Soil and Water Conservation Commission. Hyneman is a 1971 graduate of the University of Arkansas. His term expires in 2018.

Reynie Rutledge, vice chair
Reynie Rutledge of Searcy is chair and chief executive officer of First Security Bank. He earned his undergraduate and master’s degrees from the University of Arkansas and has served on both the Sam M. Walton College of Business Executive Advisory Board and the University of Arkansas for Medical Sciences Foundation Board. His term expires in 2017.

David Pryor, secretary

Morrill Harriman, assistant secretary
Morril Harriman of Little Rock has served as Governor Mike Beebe’s chief of staff since Beebe took office in 2007. Prior to that, Harriman served 16 years in the Arkansas Senate. He earned both his bachelor and law degrees from the University of Arkansas. His term expires in 2024.

Mark Waldrip
Mark Waldrip of Moro is owner of East Arkansas Seeds Inc. and Armor Seed LLC, companies that develop and sell soybeans, wheat, rice and corn. He also owns and manages Waldrip Farms Inc., a several thousand acre family farm. Waldrip is a 1977 graduate of the University of Arkansas. His term expires in 2020.

John Goodson
John Goodson of Texarkana is a law partner at Keil & Goodson, P.A. He earned his bachelor’s degree in 1987 and law degree in 1989 from the University of Arkansas. His term expires in 2021.

Stephen Broughton
Dr. Stephen Broughton of Pine Bluff is a staff psychiatrist for the Southeast Arkansas Behavioral Health System. Broughton earned his bachelor’s degree from the University of Arkansas at Pine Bluff and completed his medical education at the University of Arkansas for Medical Sciences. His term expires in 2022.

C.C. "Cliff" Gibson III
C.C. "Cliff" Gibson III of Monticello is founder of Gibson and Keith Law Firm and serves as county attorney for Drew County, Ark. The former president of the Monticello Economic Development Commission, Gibson attended the University of Arkansas at Monticello and earned his Juris Doctor at the UALR Bowen School of Law. His term expires in 2023.

Sheffield Nelson
Sheffield Nelson of Little Rock is a retired president and chief executive office of Arkla Gas. He has served on the board of the Arkansas Department of Higher Education and the Arkansas Game and Fish Commission. Nelson earned his undergraduate degree from Arkansas State Teachers College, now the University of Central Arkansas, and his law degree from the University of Arkansas. His term expires in 2025.
Kelly Eichler
Kelly Eichler of Little Rock is the public policy director for Gov. Asa Hutchinson. She previously served as a deputy prosecutor for Pulaski County and on the Arkansas Board of Corrections. She earned a bachelor’s degree from the University of Arkansas and a law degree from the University of Arkansas at Little Rock Bowen School of Law. Her term expires in 2026.
Administative Officers

System Administration
President, University of Arkansas — Donald Bobbitt, B.S., Ph.D.

Chancellor and Vice Chancellors
Chancellor, University of Arkansas, Fayetteville — Joseph E. Steinmetz, B.S., M.A., Ph.D.

Provost and Vice Chancellor for Academic Affairs — Ashok Saxena, B.Tech., M.S., Ph.D.

Vice Chancellor for Finance and Administration — Timothy J. O'Donnell, B.B.A.

Vice Chancellor for Government and Community Relations — Randy Massanelli, B.S.B.A.

Vice Chancellor for Intercollegiate Athletics — Jeff Long, B.A., M.A.

Vice Chancellor for Student Affairs — Charles F. Robinson II, B.A., M.A., Ph.D.

Vice Chancellor for University Advancement — Chris Wyrick, B.S.

Deans and Vice Provosts
Dean of Honors College — Lynda Coon, B.A., M.A., Ph.D.

Dean of Dale Bumpers College of Agricultural, Food and Life Sciences, interim — Lona Robertson, B.S., M.S., Ed.D.

Dean of Fay Jones School of Architecture and Design — Peter MacKeith, B.A., M.Arch.

Dean of J. William Fulbright College of Arts and Sciences — Todd Shields, B.A., M.A., Ph.D.

Dean of Sam M. Walton College of Business — Matt Waller, B.S., M.S., Ph.D.

Dean of College of Education and Health Professions — Michael T. Miller, B.A., M.S., Ed.D.

Dean of College of Engineering — John English, B.S.E.E., M.S.O.R., Ph.D.

Dean of Graduate School and International Education — Kimberly LaScola Needy, B.S.I.E., M.S.I.E., Ph.D.

Dean of School of Law — Stacy L. Leeds, B.A., M.B.A., LL.M., J.D.

Dean of Students — Melissa Harwood-Rom, B.A., M.F.A., M.S.Ag.E.

Dean of University Libraries — Carolyn Henderson Allen, B.S., M.S.

Dean of Admissions and Vice Provost for Enrollment Services — Suzanne McCray, B.A., M.A., Ph.D.

Vice Provost for Academic Affairs — Terry Martin, B.S.E.E., M.S.E.E., Ph.D.

Vice Provost for Distance Education, interim — Donald Judges, B.A., J.D., Ph.D.

Vice Provost for Diversity — Open

Vice Provost for Faculty Development and Enhancement — Ro Di Brezzo, B.S., M.S., Ph.D.

Vice Provost for Planning — Kathy Van Laningham, B.A., M.A., Ph.D.

Vice Provost for Research and Economic Development — James Rankin, B.S.E.E., M.S.E.E., Ph.D.
University Profile

Vision
By 2021, the University of Arkansas will be recognized as one of the nation's Top 50 public research universities with nationally ranked departments and programs throughout the institution.

Mission
The mission of the University of Arkansas is to provide an internationally competitive education for undergraduate and graduate students in a wide spectrum of disciplines; contribute new knowledge, economic development, basic and applied research and creative activity; and provide service to academic/professional disciplines and society, all aimed at fulfilling its public land-grant mission to serve Arkansas and beyond as a partner, resource, and catalyst.

History
Founded as a land-grant college and state university in 1871, the University of Arkansas opened its doors to students on January 22, 1872. The Morrill Land-Grant College Act of 1862, federal land sales provided funds for the new university, which was charged with teaching “agricultural and the mechanic arts,” “scientific and classical studies,” and “military tactics” to Arkansas scholars.

Statewide elections, held to establish bonds to help finance the university, eventually determined the school’s location. Washington County and the city of Fayetteville submitted the highest bid, a total of $130,000, to which was added a $50,000 state appropriation for the benefit of the institution and $135,000 from the sale of federal lands. With $12,000 of this money, the university purchased a 160-acre farm, the homestead of William and Martha McIlroy, and established its campus on a hilltop overlooking the Ozark Mountains.

There were few facilities and little money that first academic year, but the eight students and three faculty members who gathered for classes in 1872 showed the same dedication to learning and commitment to excellence that has carried the University of Arkansas into the 21st century. Over the past 140 years, the university has developed into a mature institution with 10 schools and colleges, more than 1,100 full-time faculty members, and more than 26,000 students. It serves as the major provider of graduate-level instruction in Arkansas. The research and scholarly endeavors of its faculty make it an economic and cultural engine for the state. And its public service activities reach every county in Arkansas, throughout the nation, and around the world. Find out more about the university's history (http://www.uark.edu/about/history.php) or browse our timeline (http://uark.edu/about/time-line.php).

Today at the University of Arkansas Campus
Students pursue a broad spectrum of academic programs leading to baccalaureate, master’s, doctoral, and professional degrees, not only in traditional disciplines within arts, humanities, social sciences, and natural sciences, but also in the core professional areas of agricultural, food and life sciences; architecture; business; education; engineering; nursing; human environmental sciences; and law.

The University of Arkansas houses more than 200 academic programs and offers bachelor’s degrees in 75 areas of study. Students may also pursue a wide range of graduate degrees, including the Master's, the Educational Specialist, the Doctor of Education, and the Doctor of Philosophy.

The Carnegie Foundation categorizes the University of Arkansas as a research institution with “very high research activity,” placing the university among the top 2 percent of universities nationwide and in a class by itself within the state of Arkansas. U.S. News and World Report consistently ranks the university among the top tier of institutions of higher education. Faculty members perform cutting-edge research for which they annually win prestigious grants and awards, and the university encourages undergraduates to participate in the research process. Such opportunities enhance the learning process by providing hands-on experience in lab and research techniques, by developing students’ abilities to implement, experiment, discover and teach, and by fostering a mentoring relationship early in students’ academic careers.

Research programs involving both faculty and students serve as vital sources of information on the economic and social needs of Arkansas. In many fields, research performed at the University of Arkansas reaches beyond the state to provide insight and guidance on issues of national and international concern. The university provides extensive technical and professional services to varied groups and individuals throughout the state, helping to further Arkansas’ economic growth. The university operates nationally respected self-paced (correspondence) courses; it assists other institutions in developing educational programs; it offers graduate programs, both cooperatively and singly, throughout the state; and it makes specialized campus resources such as computing services and library holdings available to other institutions in the state.

Classes at the university maintain a low average ratio of students to instructor, although individual classes may range from a large general-lecture class of 200 to a focused special-topics class of 4 or 5 students. University of Arkansas students are given the tools and encouragement needed to excel. Over the last 15 years, more than 200 undergraduate Arkansas students have become Rhodes, Gates Millennium, Madison, Marshall, Goldwater, Fulbright, Boren, Gilman and Truman scholars. More than 100 graduate students have received National Science Foundation Graduate Research Fellowships. Find out more about the university's numbers (http://www.uark.edu/about/by-the-numbers.php).
Academic Facilities

The University of Arkansas provides a variety of resources for students to enhance their ability to attend college, improve their studies in class, and aid their academic research as they advance through their curricula.

The programs and services listed at left provide advice, tools and inspiration for high school students; individual tutoring for students on campus and infrastructure such as libraries and technology support that offer University of Arkansas students ongoing support throughout their college careers.

Center for Multicultural and Diversity Education

The Center for Multicultural and Diversity Education provides academic, cultural and social programs intended to promote inclusiveness, foster achievement and assist in the development and advancement of a diverse student body.

The center is located on the fourth floor of the Arkansas Union in Room 404, and can be contacted at 479-575-8405 or by visiting multicultural.uark.edu.

Information Technology Services

At the University of Arkansas, you can expect a high level of IT support.

Essential technology services hosted by IT Services include email, the campus network, Wi-Fi, technical support, computer labs, printing and the online student information system (UAConnect). New or returning students can use the Get Started Tech Selector (http://its.uark.edu/tech-selector/get-started.html) to learn about online services and UARK account activation.

The secure Wi-Fi network (http://its.uark.edu/internet/wireless) requires a UARK username and password and provides full Internet access, while the UARK Guest Wi-Fi network provides limited access using any email address. The eduroam Wi-Fi network provides access to visitors from participating institutions and is available to UARK users when traveling to participating institutions.

UARK Gmail at email.uark.edu is the official email service for students and can be set up to work with various email apps and mobile devices. Students can visit the About Student Email (http://its.uark.edu/email/gmail) page for information on UARK Gmail features and instructions for setting up email on a mobile device. The official email service for faculty and staff is Microsoft Exchange (http://its.uark.edu/email/exchange).

General Access Computing Labs (GACLs) offer Windows and Mac computers for use by students, faculty and staff. GACL locations and hours of operation are available on the Computer Labs (http://its.uark.edu/labs) page. PrintSmart provides a student printing quota equivalent to 700 single-sided black and white pages per student per semester. Printing is available in GACLs and at QuickPrint stations around campus.

The Student Technology Center (http://its.uark.edu/labs/student-tech-center) offers high-end single and multi-user online gaming computers and multimedia hardware and software. Laptops, cameras and other digital equipment are available for checkout from the center. Equipment, recording studios and a team room can also be reserved in advance. The Arkansas Union computer lab also has a team room and a quiet room available for reservation.

The IT Help Desk (http://its.uark.edu/help/help-desk) provides technical support to students, faculty and staff over the phone at 479-575-2905 or online at AskIT.uark.edu. Technical support is also available in person at the Arkansas Union, Administrative Services Building and J.B. Hunt building during regular business hours.

Student Support Services

The department of Student Support Services is designed to provide a powerful combination of programs and services to students who are first-generation, and/or modest-income, and/or individuals with disabilities. The services provided by Student Support Services place an emphasis on individual assessment, counseling, advising, and skill building. Some of these services include: academic/financial/personal counseling, financial scholarships, social etiquette instruction, career and graduate school preparation, academic/cultural enrichment, assistance with tutoring, and mentorship. The overarching goal of the University of Arkansas Student Support Services program is to empower students, assist them in achieving academic excellence, and seeing them through to graduation.

Student Support Services is a department in Diversity Affairs. The office is located on the Garden Level of Gregson Hall. For more details, call Student Support Services at 479-575-3546 or visit the Student Support Services website (http://sss.uark.edu).

Talent Search Programs

College Project Talent Search, Educational Talent Search, and University Access Talent Search

College Project, University Access and Educational Talent Search are early-intervention college preparatory projects. Serving more than 2,000 students in grades 7-12, the programs promote skills and information necessary for successfully completing a baccalaureate degree. With a developmental curriculum, staff prepare students to meet their college goals by emphasizing leadership and career development, technological and academic skills, ACT readiness/payment assistance, college preparatory workshops, financial aid and scholarship information, financial literacy, and support for completing a rigorous high school curriculum.

Academic monitoring and advising are incorporated to facilitate individual student progress. Services are provided at participating schools on an outreach basis, and summer enrichment and campus-based events provide ongoing opportunities for institutional and faculty involvement. The Talent Search programs are under the federal umbrella of “TRIO” and funded by the U.S. Department of Education. Eligibility requirements include but are not limited to having first-generation/low income status, exhibiting academic potential, and attending one of the 41 target schools served. For additional information, visit the Talent Search website (http://talentsearch.uark.edu).

Offices for the Talent Search program are at the university’s Uptown Campus East, 1083 E. Sain Street, Fayetteville, Ark. Call 479-575-3553 for more information.
Testing Services

Testing Services is charged with the responsibility of administering standardized academic tests at the University of Arkansas. The office administers such national tests as:

- the ACT Assessment
- the Law School Admission Test (LSAT)
- the Graduate Management Admission Test (GMAT)
- the Graduate Record Examination (GRE)
- the CLEP exams in addition to others throughout the year.

National testing companies determine testing dates and deadlines. Testing Services also offers a number of institutional tests such as the Test of English as a Foreign Language (TOEFL) and the Spoken Language Proficiency Test (SLPT). These tests are scheduled at various times as demand dictates. Test fees vary depending on the test.

To obtain a registration bulletin or information about exam dates and deadlines, please stop by the Testing Center at 1435 W. Walton St., Fayetteville, or call 479-575-3948.

University Libraries

The library system of the University of Arkansas, Fayetteville, includes the David W. Mullins Library, the main research facility on campus, and four branch libraries:

- The Robert A. and Vivian Young Law Library (http://law.uark.edu/library)
- The Fine Arts Library (http://libinfo.uark.edu/FAL)
- The Chemistry and Biochemistry Library (http://libinfo.uark.edu/chemistry)
- The Physics Library (http://libinfo.uark.edu/physics)

The spacious Helen Robson Walton Reading Room is Mullins Library’s most popular quiet study area, but group study space and graduate student study space is also available. More than 200 databases and thousands of electronic journals are accessible from anywhere with a University ID. Librarians onsite assist in locating and using library resources, or students may send questions by email, phone, or 24/7 chat.

Subject librarians (http://libinfo.uark.edu/info/specialists.asp) are also available for one-on-one research consultations tailored to individual research questions, whether onsite, over the phone, or even remotely by video software. Librarians conduct orientation sessions on research methods and software throughout the semester and the Quality Writing Center (http://qwc.uark.edu) has a satellite location inside Mullins Library.

With 2.1 million volumes and more than 56,000 journal titles, students will find research material for every subject. Other resources in the collections include several thousand maps, manuscripts, and more than 33,000 audio and visual materials, including music scores, recordings, and movies, available through the Performing Arts and Media (http://libraries.uark.edu/AV/default.asp) Department on the lower-level of Mullins Library.

A full-service computer commons (GACL) is located on the lobby level of Mullins, complete with printing stations and state-of-the-art scanners. Laptops and iPads are available to check-out to take advantage of wireless access anywhere in the library. Visit the University Libraries website (http://libinfo.uark.edu) to learn more about services and collections, or access My Library (https://library.uark.edu/patroninfo~S1) to check accounts, renew books, request holds, or save catalog searches.

Items not owned by the University Libraries may be obtained through Interlibrary Loan (http://libinfo.uark.edu/ill/default.asp). Requested items in electronic format will be sent directly to desktops, usually within 24 hours; physical items are held for pickup at the main service desk on the Lobby Level. The University Libraries have had official status as a United States government depository since 1907, and the Government Documents Department has been a depository for Arkansas state publications since 1993. The University Libraries’ map collection and GIS (http://libinfo.uark.edu/GIS/default.asp) (geographic information systems) program, including a public GIS workstation equipped with ArcGIS Desktop Suite, are also available.

In Special Collections, students can read rare books from around the world; consult the largest book collection related to Arkansas; handle historic letters, diaries, magazines, and old photographs in the archives; and watch old black and white films made in or about the state. A number of digital collections and exhibits (http://libinfo.uark.edu/eresources/digitalcollections.asp) are available through the Special Collections website (http://libinfo.uark.edu/SpecialCollections). Special Collections also holds the University Archives, the Arkansas Collection, and the Arkansas Architectural Archives.

To stay up-to-date on the Libraries’ programs, resources, and events, follow @UARKLibraries on Facebook, Twitter, Instagram, and Pinterest. For information concerning collections and services, please inquire at 479-575-4104 or refer@uark.edu. For any other questions, please contact the Dean’s Office at 479-575-6702.

Upward Bound Programs

Upward Bound and Upward Bound Math and Science

Upward Bound (http://ub.uark.edu) and Upward Bound Math and Science are early intervention programs that help low-income and potential first-generation college students prepare for higher education. These programs bring high school students in grades 9 – 12 to the University of Arkansas campus on weekends and during the summer to receive instruction in mathematics, laboratory sciences, composition, literature, and foreign languages. The programs also provide academic and social support through tutoring, counseling, mentoring, cultural enrichment, financial literacy, field trips, college planning, and financial aid assistance.

For students just completing their senior year of high school, Upward Bound provides a summer residential bridge program that enables participants to earn up to six hours of college credit. Funding is provided through grants from the U.S. Department of Education.

Veterans Upward Bound

Veterans Upward Bound (http://vub.uark.edu) is designed to identify and serve the unique needs of veterans who have the academic potential and desire to enter and succeed in a program of higher education. Eligible veterans must have completed a minimum of 180 days of active duty in the military or Coast Guard and hold any discharge other than dishonorable. Services include tutoring; guidance counseling; assistance in filing financial aid and VA benefit forms; academic/career advisement; test preparation for entrance exams; and courses in English, Spanish, math, science, and computer technology. Courses are offered days and evenings each semester. Funding is provided through a grant from the U.S. Department of Education. Call 479-575-2442 for more information.
The Upward Bound and Veterans Upward Bound offices are located at the university's Uptown Campus West, 1001 E. Sain Ave., Fayetteville.
Online Education

Academic colleges and schools at the University of Arkansas provide flexible learning options through distance education and online learning options for undergraduate and graduate students. Traditional online courses, self-paced online (correspondence) courses, and online degree programs remove the barriers of time and distance. Support units provide the web-based resources and services necessary for distance and online students to reach their educational and professional goals.

Global Campus

The Global Campus (http://globalcampus.uark.edu), School of Continuing Education and Academic Outreach, serves as a portal for online, distance and professional education programs and courses provided by the University of Arkansas. Experienced staff members collaborate with the university’s academic colleges and other academic units to develop and facilitate quality courses and programs that help students reach educational and professional goals.

State Authorization and Distance Education Beyond Arkansas

The University of Arkansas, Fayetteville delivers online education programs and courses throughout the United States and internationally. All programs have been approved by the Arkansas Department of Higher Education. Many states have prescribed an “authorization” process for out-of-state institutions delivering online programs to its state residents to ensure quality post-secondary education, to preserve the integrity of an academic degree and to instill greater consumer protection for its student citizens.

Authorization (sometimes referred to as “registration,” “licensure,” “approval,” etc.) indicates that certain minimum standards have been met by the institution under the laws and regulations of that state. Authorization does not constitute an endorsement of any institution, course or degree program. Credits earned at an institution may not transfer to all other institutions.

The University of Arkansas, Fayetteville, through the Global Campus, has taken steps to protect its students and operations through nationwide compliance and has been granted authorizations, exemptions and waivers from many states. In other states, the University of Arkansas, Fayetteville can operate without such authorization because the state’s laws do not pertain to a public institution, to an accredited institution or to the University of Arkansas activities in that state. More specific information about state authorization can be found at the University of Arkansas Online Web page (http://online.uark.edu/about/state-authorization.html). The Global Campus supports the university’s development and delivery of online and distance education.
Student Affairs

Vision Statement
The University of Arkansas Division of Student Affairs engages students to develop their strengths, inspiring leadership for a global society.

Mission Statement
The University of Arkansas Division of Student Affairs strengthens students for success.

Values
The University of Arkansas Division of Student Affairs values inclusion, service, inquiry, partnership, and excellence:

- **Inclusion**: We embrace the uniqueness of individuals and engage every member of our diverse community.
- **Service**: We connect students to resources, opportunities, and experiences transforming them into active, engaged citizens of a global society.
- **Inquiry**: We engage ourselves and our students in the acquisition, application, and creation of knowledge for lifelong learning.
- **Partnership**: We explore and welcome opportunities to collaborate with our students, colleagues, and members of our global community.
- **Excellence**: We apply our varied talents and strengths with integrity to providing exceptional service to our students.

Strategic Goals
To achieve this Mission the University of Arkansas Division of Student Affairs will:

- Foster the ongoing development of an inclusive community.
- Enhance students learning through effective programs and services.
- Advocate rights and responsibilities through service to students and collaboration with partners.
- Steward all of the Division’s resources responsibly.
- Communicate and collaborate effectively.

The Vice Provost for Student Affairs administers the departments of the Division of Student Affairs and provides leadership in the development of programs and services that supplement the classroom experience of students and enrich the quality of campus life. The Vice Provost serves as a liaison to other administrative offices, faculty, and student governing groups. The office is a central source of information concerning University policies and procedures affecting student life and co-curricular programs and services.

The Division of Student Affairs and the Office of the Dean of Students emphasizes student advocacy while broadening the development of services and programs that address a range of student and campus needs. Departments in the Division are dedicated to developing exceptional programs and services that enhance the University of Arkansas Experience and enrich the quality of student and campus life. Staff members are available and willing to assist with any problem or question a student, staff, or faculty member may have regarding student and campus life at the University of Arkansas. The office is available for the clarification of University policies and procedures, confidential consultation, formal academic grievances, personal and family crisis assistance for students, and referral to all campus and community services. The office also seeks to assist students and faculty members in cases of emergency or extenuating circumstances. Staff members are firmly committed to addressing the challenges and individual needs of the University of Arkansas family.

Student Life

Off-Campus Student Services
As of May 16, 2016, Off Campus Connections will be known as Off-Campus Student Services. For information, visit the Off-Campus Student Services website (http://occ.uark.edu) or make an appointment to visit with a staff member in Arkansas Union Room 632. Off-Campus Student Services can also be reached by calling 479-575-7351.

Off-Campus Student Services provides friendly and helpful resources, services and programs for off-campus undergraduates with an emphasis in three main areas:

- Freshman Commuter Programs
- Non-Traditional/Adult Learner Support
- Off-Campus Living Education and Services

Off-campus students are defined as undergraduates not living in a residence hall, fraternity, or sorority house. The University of Arkansas has 15,400 undergraduates living off-campus. Some off-campus students live very near the university while others commute from hours away. Some students take advantage of online classes or majors and seldom visit campus.

Freshman Commuters are first-time, full-time, degree-seeking students who live at home with a parent or guardian during their first year of college. Off-Campus Student Services reaches out to approximately 500 freshman commuters each fall to share campus and academic resources, to provide opportunities to meet other cohort members, and to provide mentorship opportunities.

Non-traditional/adult learners are also supported by Off-Campus Student Services. Non-traditional undergraduate students may have children; be married; work full-time; or be older than traditional students. Because their needs are different, various support and recognition programs are in place to encourage those who may have competing interests or other responsibilities in addition to school.

Finding a place to live is a basic need for many students beyond their freshman year. To help meet these needs, a free, housing website, offcampushousing.uark.edu is provided. The properties on the website have expressed a desire for student tenants. Off-Campus Living Fairs and educational resources are also offered to help those who are preparing to live on their own in the community. Off-Campus Meal Plans have also proven important to student success. Meal plans designed to meet students’ needs are available for purchase through Chartwells Campus Dining Services. Having a meal plan encourages students to eat regular meals so they can better focus on academics. Meal plans are charged to a student’s account, so costs may be covered with financial aid awards.

A friendly and comfortable Commuter Lounge with a refrigerator, microwave, television and study tables is located on the Sixth Floor West of the Arkansas Union. Timely tips and information about jobs, deadlines, campus, and community life are shared through a weekly email newsletter. Off-Campus Student Services’ desire is for each student living
off-campus to feel an important part of the university, earn a degree, and have their name forever inscribed on Senior Walk.

**Veteran Resource and Information Center**
The University of Arkansas Veterans Resource and Information Center contributes to the academic and professional success of current and prospective student veterans and their dependents by providing innovative resources and support; assisting with military educational benefits; and by serving as a central “Rally Point” for a seamless collaboration among various departments within the University of Arkansas, the U.S. Department of Veterans Affairs, and the diverse network of community partners supporting veterans.

Veterans and dependents of service members may be eligible to receive monthly educational assistance from the Veterans Administration while enrolled at the University of Arkansas. For more information, including GI Bill eligibility and scholarship opportunities, contact the Veterans Resource and Information Center at vrc@uark.edu or 479-575-8742. Students may also visit the center in Arkansas Union Room 603 or online at veteranscenter.uark.edu.

**Reasonable Accommodations for Students with Disabilities**
The Center for Educational Access (CEA), 209 Arkansas Union, is the central campus resource for students who require reasonable accommodations in order to access the programs, services and activities offered through the University. CEA staff work in partnership with the individual student to communicate and facilitate any accommodation needs to faculty and staff. Accommodation determination is based in part on medical or psychological documentation provided to the CEA by the student. Students must meet with one of the CEA staff for an access plan meeting to discuss their needs and provide such documentation before any accommodations can be granted.

To register for services or for more information, contact the Center for Educational Access, University of Arkansas, 209 ARKU, Fayetteville, AR 72701, phone 479-575-3104 (voice) or 479-575-3646 (TTY); e-mail: ada@uark.edu; Web: Center for Educational Access (http://cea.uark.edu) (online request for services available).

**Office of Student Standards and Conduct**
It is the vision of the Office of Student Standards and Conduct to foster a campus community that values citizenship, personal and civic responsibility, peer accountability, and care/concern for the university and surrounding communities.

The mission of the Office of Student Standards and Conduct (OSSC) is to create a safe and inclusive community by upholding the Code of Student Life, which promotes responsibility, accountability, and student learning through:

- Educational opportunities and outreach.
- The adjudication of Code of Student Life violations.
- Providing a consistent, fair, equitable, educational, student conduct process.
- The development of ethics and adherence to personal values.
- Education on the norms and values of the University of Arkansas.

Students who are interested in involvement with the All-University Conduct Board should contact the Director of OSSC at judicial@uark.edu. The All-University Conduct Board comprises faculty, staff, and students and is responsible for the adjudication of cases of alleged student misconduct as outlined in the Code of Student Life. This board is an advanced leadership opportunity for students who would like to gain valuable experience working with faculty and staff on an impartial peer review board.

For more information regarding the Code of Student Life, please see the Student Handbook at handbook.uark.edu. The Office of Student Standards and Conduct is located in Pomfret B 110, phone 479-575-5170; Web: ethics.uark.edu.

**University Career Development Center**
The University Career Development Center educates and empowers students to fulfill their career goals. Students can take advantage of the center’s valuable resources:

**Career Advising:** Career Counselors in the CDC are available to assist students who may need help selecting a college major, seeking career information, researching or exploring careers, preparing for their job search, or considering graduate school.

**Career and Strength-Awareness Assessments:** The STRONG Interest Assessment, FOCUS 2 and TypeFocus are career assessments that can help students make career decisions based on their interests and values. StrengthsQuest is an assessment which helps individuals discover their talents and strengths. After discovering their talents, the Career Center assists students in learning how to use their talents to achieve academic, career, and personal success.

**Career Fairs:** In partnership with academic areas on campus, the CDC hosts a number of career fairs each year to provide opportunities for students to connect with employers and to learn more about companies and organizations. These connections could lead to valuable internships or full-time employment.

**Job Search Preparation:** The CDC offers resume critiques, interview skills training, mock interviews, networking opportunities, career presentations and several professional development events throughout the academic year to prepare students for internships, co-ops or full-time jobs.

**Cooperative Education Opportunities:** Cooperative Education is a program that enables students to gain professional work experience in paid, degree-related positions. Co-op students earn credit, a competitive wage and valuable “real world” work experience.

**Internet Job Search Resources:** Through the CDC’s website, students are able to access a number of job search sites, including Razorback CareerLink. These resources enable University of Arkansas students to apply for jobs online and to sign up for on-campus interviews.

**Professional Development Institute:** This nationally recognized program creates opportunities for UA students to develop professional career-building skills. Participation in this program can help students gain the valuable skills which give them the competitive advantage in their job or graduate school search.

For more information, check out career.uark.edu.

The University Career Development Center is conveniently located in Arkansas Union Room 607, or call 479-575-2805.
University Housing
University Housing is committed to providing a safe, comfortable, convenient, and reasonably priced living and learning environment that promotes student success.

Success on Campus
National research shows that academic success in the first year and beyond is directly linked to residing in an on-campus residence environment. The University of Arkansas recognizes the benefits that students receive from living on campus their first year.

Freshman Residency Requirement
All single students who are admitted to the University with a freshmen classification and under 21 years of age are required to live on campus in a residence hall, or in their parent or legal guardian’s permanent home.

Students who are admitted to the University of Arkansas as transfer students from another post-secondary institution, and who have completed at least 24 credit hours at that institution are not required to live on campus.

Requests for a newly admitted freshmen to live somewhere other than with parents or a legal guardian in their permanent home will not be approved under most circumstances.

Students planning to live with their parents or legal guardian in their permanent home should complete the Living with Parent Notification form (http://housing.uark.edu/Forms) prior to attending an orientation session.

Students requesting an exemption from the University of Arkansas Freshmen Residency Requirement (http://housing.uark.edu/Forms) should send all required paperwork to University Housing at least three weeks prior to attending an orientation session. This ensures the student receives approval or denial prior to attending orientation.

Failure to do so could cause long delays in the orientation process. Students who need a Living with Parent Notification Form or who wish to apply for an exemption to the University’s requirement for single freshmen to live on campus may refer to the information on the Housing website (http://housing.uark.edu/Contracting/contracts.php).

Residence Hall Leadership
Residence Halls are managed by a full-time coordinator for residence education, or CRE, who has completed a master’s degree program in higher education, counseling or a related degree. This individual is selected for his or her academic credentials and interest in helping others as well as his or her ability to work well with college students.

In addition, every area or floor is staffed by a resident assistant, or RA, who is an upper-class student with the knowledge to answer students’ questions and help students find their own answers.

Counselors in residence (doctoral graduate assistants) provide short-term counseling for students living in the residence halls in response to personal, social, academic, and developmental needs.

Living Learning Communities
University Housing offers several innovative Living Learning Communities (http://housing.uark.edu/Residence_Education/Living_Learning), or LLCs, for students. These communities enhance student’s academic success.

In an LLC, students get to live with peers who have similar interests, majors, or career plans. Living Learning Communities do not cost extra. LCC members have the opportunity to participate in fun experiences that connect learning in and out of the classroom.

Some of the initiatives include faculty-led events, major specific academic learning teams, more general thematic learning communities and other programs that assist students in their academic endeavors.

Living Facility Options
Living options include traditional halls, suites and apartments with designations of single-gender or co-ed. Rooms are available for visually or hearing-impaired students as well as those who are physically challenged (http://housing.uark.edu/disability-accommodation.php).

Residence hall entry/exit doors are secured and/or monitored 24 hours a day. Some entries are unlocked to accommodate offices housed in our facilities and classes that are held in our classrooms. Most, but not all, of these areas have interior doors that secure the living floors.

Residents are provided access via an electronic access system. Students should be careful not to allow non-residents to follow them into their residence hall. Residents are provided access via a fob issued when they check-in. Students are responsible for escorting all visitors and guests at all times.

Campus Dining
Each of the three separate dining facilities (http://housing.uark.edu/campus_communities/dining_rates.php) on campus is managed by Campus Dining Services and provides a natural setting for socializing with friends and enjoying a wide variety of high quality, nutritious meals. All students living in a residence hall, except those residing in summer school housing, are required to have a meal plan. There are several meal plans available to meet the needs of both on-campus and off-campus students.

Learn more about Campus Dining Services online at campus dining services (http://dineoncampus.com/razorbacks).

Pat Walker Health Center
The Pat Walker Health Center supports the University of Arkansas community members on their way to wellness. The health center provides professional and comprehensive medical and mental health care, wellness support and health promotion for students, faculty, and staff.

The university strongly recommends that all students maintain health insurance. A student health insurance policy is available to all students, student spouses and dependent children. Students may enroll in this plan at the Pat Walker Health Center or at health.uark.edu.

With a diverse range of programs and services, the Pat Walker Health Center offers the university community an easy, convenient and affordable approach to health and wellness.

Medical Care
The Pat Walker Health Center offers a variety of medical services. Complete with board-certified physicians and advanced nurse practitioners, the university community has access to the following clinics:

- The Primary Care Clinic offers illness and injury diagnosis and treatment, laboratory services, minor surgery, nurse triage, nutrition consultations, orthopedic consultations and X-ray.
• **RazorCARE Clinic** is an easy and convenient walk-in clinic that provides quick diagnosis and treatment of minor illnesses, with no appointment necessary. RazorCARE Clinic generally sees patients with ears, eyes, nose, mouth and skin symptoms.

• **The Allergy, Immunization, and Travel Clinic** offers allergy desensitization, immunizations, international travel consultations and tuberculosis screenings.

• **The Women’s Clinic** provides comprehensive gynecological services with sensitivity to the unique needs of female clients.

**Mental Health**

The Counseling and Psychological Services (CAPS) department works with the university community to help develop and improve mental well-being. Fully accredited by the International Association of Counseling Services, CAPS addresses common mental health issues that impact students such as anxiety, depression and stress. Using licensed psychologists, counselors and social workers, CAPS offers a variety of services including counseling, group therapy, mental health crisis intervention and psychiatry.

To access CAPS services or 24-hour emergency services, call 479-575-5276.

**Wellness and Health Promotion**

The department of Wellness and Health Promotion inspires, motivates, and supports student wellness and well-being through a variety of academic courses, outreach presentations and events, peer education and wellness coaching.

Based on a holistic approach to wellness, Wellness and Health Promotion helps the university community maximize their potential across eight essential elements of health and well-being – physical, mental, emotional, social, spiritual, occupational, environmental and financial. Using the principles of resilience and thriving, the university community has access to many engaging and interactive wellness programs and services.

**Accreditation**

The Pat Walker Health Center is accredited by Accreditation Association for Ambulatory Health Care. The center is located at 525 N. Garland Ave. If you have questions about specific services, call 479-575-4451; TTY 479-575-4124. Visit us online at health.uark.edu.

**Campus Life**

**Center for Community Engagement**

The purpose of the Center for Community Engagement (CCE) is to promote civic engagement and leadership by connecting University of Arkansas students, faculty, and staff with nonprofit organizations in the Northwest Arkansas area and beyond.

In order to serve this purpose, the CCE maintains uark.givepulse.com (http://volunteer.uark.edu), which enables the University of Arkansas community to search for agencies and volunteer opportunities. It allows users to log volunteer hours, or “impacts” and earn opportunities for community recognition, such as the Presidential Volunteer Service Award and Chancellor’s Community Service Award. Northwest Arkansas agencies and University of Arkansas registered student organizations also utilize the site to post service opportunities and recruit volunteers. Over 350 organizations and subgroups are registered on the site, such as Habitat for Humanity, the U of A Friday Night Live program, and Potter’s House Thrift.

**Volunteer Action Center**

The Center for Community Engagement also houses the Volunteer Action Center, a student-led volunteer coordination board with 45 members who are dedicated to active service in the community. Each year the Volunteer Action Center provides meaningful service opportunities through events and ongoing projects that engage the university and Northwest Arkansas communities. The Volunteer Action Center sponsors programs and events including the Jane B. Gearhart Full Circle Food Pantry, Make a Difference Day, Dream B.I.G. (Believing in Girls) Mentoring Program, VAC Literacy Program, and Razorback Food Recovery. The Jane B. Gearhart Full Circle Campus Food Pantry of the Volunteer Action Center Board is a nationally recognized program; the pantry serves students, staff and their families. Requests and more information can be found at fullcircle.uark.edu.

Get involved in the following ways:

• Drop by the Center for Community Engagement, Arkansas Union, Room A643, and chat with the office’s great staff and students.

• Look for service opportunities on uark.givepulse.com (http://volunteer.uark.edu) and log your hours. Just one hour makes you a VAC volunteer.

• Participate in events hosted by VAC and CCE throughout the year.

• Become a Volunteer Action Center board member or weekly program volunteer. Applications are accepted each semester.

**Greek Life**

The Charles and Cappy Whiteside Greek Life Leadership Center facilitates the educational process and provides resources related to programs that strengthen the growth and development of students affiliated with fraternities and sororities on campus. The overall mission is to strengthen the academic, cultural, moral, and social development of students in Greek organizations; provide training in strengths-based leadership and other personal and social skills; promote involvement in extracurricular activities and community service projects; and promote Greek Life as a productive and viable lifestyle on campus. The Greek Life Leadership Center coordinates programs such as Recruitment, Greek Getaway, Greek Life Facilitators, and Greek Summit in collaboration with the Interfraternity Council, the National Pan-Hellenic Council, the Panhellenic Council, and the United Greek Council.

The Interfraternity Council (IFC), National Pan-Hellenic Council (NPHC), Panhellenic Council (PC) and United Greek Council (UGC) govern 15 national sororities and 19 fraternities. The officers and representatives of each council work with the staff of the Greek Life Leadership Center to provide positive programs and strengths-based leadership opportunities to the members of the Greek organizations. The Charles and Cappy Whiteside Greek Life Leadership Center is in Walton Hall 101; phone 479-575-5001 or fax 479-575-3531; Web: uagreeks.uark.edu.

**New Student & Family Programs**

The Office of New Student & Family Programs connects students and their families to the University of Arkansas campus and community by providing diverse, innovative programs and resources that support a successful collegiate experience. The department supports and collaborates on the following major initiatives:


• Parent & Family Programs: Family Weekend, Spring Family Reunion, Regional Parents Clubs and the Parent Partnership Association
• Leadership & Late Night Programs: Friday Night Live, Emerging Leaders, Who’s Who Among Students in American Universities & Colleges, Student Leader of the Month, University of Arkansas Student Leadership & Career Academy, and Diversity Leadership Institute
• First Year Initiatives: New Student Welcome & Burger Bash, First Year Photo Project, Alpha Lambda Delta First Year Honor Society, and Alcohol Edu for College

By providing transitional support for incoming students, their parents, and family members, our programs effectively promote the students’ academic growth and support the mission of the university.

New Student & Family Programs is located in the Arkansas Union, Room A688; phone 479-575-5002; Web: nsfp.uark.edu.

Student Activities

With a students-first philosophy, the Office of Student Activities provides an environment for involvement, empowerment, and collaboration through student organizations, programmatic experiences, and shared governance. The office maximizes the UA experience by advocating for all students, promoting intercultural understanding, and developing citizens who are prepared to positively impact their communities.

The Office of Student Activities, located in the Arkansas Union A665, is the central location for student organizations and activities for the university. The office can be reached at 479-575-5255 or visit the office’s website at osa.uark.edu. The Office of Student Activities is responsible for the oversight and administration of the following areas:

Student Organizations

All student organizations must register annually with the Office of Student Activities. The Office of Student Activities provides student organizations with assistance and services to help them succeed, including the annual Student Involvement Fair known as Razorbash, information on facility reservations and fund-raising, trademark forms, mailboxes, and locker space. The office also assists student organizations in event planning, provides educational workshops for students and advisers, and conducts retreats for student organizations. A limited number of offices are also awarded annually in the Arkansas Union to organizations.

Types of Registered Student Organizations (RSOs):

• Governing – An organization whose primary purpose is to serve as a governing body for a large or specific constituency of students.
• Greek – An organization with Greek letters who is a member of the National Inter-Fraternity Council, the Pan-Hellenic Council, National Pan-Hellenic Council, or the United Greek Council.
• Honorary/Service – An organization that requires a minimum grade point average as a prerequisite to membership and/or is affiliated with a national service or honorary organization.
• International/Cultural – An organization whose primary purpose is to provide a forum in which participants create awareness for a specific culture through educational, social, and recreational activities.
• Professional – An organization whose primary purpose is to provide a forum for participants to discuss and develop professional careers and/or is affiliated with a national or regional association.
• Religious – An organization whose primary purpose is to provide information and activities associated with one or more religions.
• Special Interest – An organization whose primary purpose is to provide an organized format for the practice and/or pursuit of a special or common interest.

Associated Student Government

The Associated Student Government (ASG) provides important services to the university community and is an integral part of the shared campus governance system. Associated Student Government is a student-led organization that enables students to have an active voice in the decisions and policy that directly affect all students at the University of Arkansas. Students involved in Associated Student Government have the opportunity to positively impact the quality of student life, work with and allocate student fees, provide a voice for student concerns as well as oversee programs and policies for all students. Through the executive, legislative, financial, and judicial branches of student government, as well as through the Freshmen Leadership Forum Program, students have the opportunity to work for and among their peers to make a difference on all levels of the university. Involvement levels and time commitment vary upon duties. Visit the student government website at asg.uark.edu or the Associated Student Government office (Arkansas Union A669) to find out more.

University Programs

University Programs is a volunteer student organization responsible for planning and coordinating more than 100 events annually for the campus community. University Programs provides students with cultural and educational experiences, entertainment, and fun. Seven committees, all made up of students, select, schedule and produce events such as concerts, movies, lectures, fine arts performances, gallery exhibitions, and daytime programs. Being a part of University Programs gives the student committee members leadership training and real opportunities to gain practical planning experience. Supported by a student activity fee, University Programs events are free to students.

For further information, visit the University Programs website at up.uark.edu.

Student Media

The Office of Student Media administers and advises the official student media outlets of the university. These outlets are: the student newspaper, The Arkansas Traveler; the University of Arkansas yearbook, The Razorback; the student magazine, The Hill; the student television station, UATV; and the student radio station, KXUA. All provide a forum for student expression, entertainment, news and information of interest to the campus community. Other than a small support staff, these groups are entirely staffed by student employees and volunteers, including editors and station managers. For more information, contact Student Media at 479-575-3406.

Arkansas Union

The Arkansas Union is the community center of campus; serving students, faculty, staff, alumni, and guests. Through our facilities, programs, and services, we are the place to build relationships, enrich academics, and experience campus life to the fullest. But more importantly, the Student Union plays a pivotal role in putting University of Arkansas students first. It is home to essential student needs, such as food service, computer technology, student accounts, banking, and the Campus Card Office. The Union provides social and educational programming space, as well as lounge and study areas. Additionally,
recreational opportunities are available in the Student Union, through the satellite fitness center, cinema, and Student Technology Center. Located inside the Union are:

**Retail Outlets**
- ATMs (various banks)
- Au Bon Pain
- Catering and Dining Services
- Club Red Convenience Store
- Freshens
- Passport Office
- PMC - Drop-Off Copy Center
- Razorback Shop
- U.S. Post Office
- Union Hair Care

**Union Market**
- The Wok
- The Diner
- Papa John's
- Burger King®
- Chick-Fil-A® Express
- El Grande Rojo Taqueria
- Mondo Subs
- Au Bon Pain Soups & Garden Emporium Salads

**Facilities**
- Anne Kittrell Art Gallery
- Computer lab
- Verizon Ballroom
- International Connections Lounge
- Student Technology Center
- Meeting rooms
- Reception rooms
- Union Living Room
- Union Information Center
- Union Theatre
- University Recreation Fitness Center
- UP Theater

**Student Services**
- Academic Initiatives and Integrity
- Arkansas Union Administration/Event Services
- Associated Student Government
- Campus Card Office
- Career Development Center
- Center for Community Engagement
- Center for Educational Access
- Multicultural Center
- New Student and Family Programs
- Off Campus Connections
- Student Activities
- Treasurer's Office and Student Accounts
- University Productions
- Veterans Resource and Information Center
Centers and Research Units

Research programs are the means by which the university contributes to the generation of knowledge as well as to the preservation and dissemination of it. With nationally recognized programs in many areas and funding from government, industry, and other private sources, the research effort of the university is strong and diversified and provides special learning opportunities for students as discoveries are made.

In addition to the extensive work performed by faculty through individual and team efforts in academic departments, special programs of research are conducted by the university divisions described below.

Graduate students are likely to be involved in research conducted by these research units, but the university encourages undergraduates as well to pursue research in their areas of academic interest. Students who wish to engage in research of any kind should seek the guidance of their advisers and professors to identify research teams and projects. In addition to the extensive work performed by faculty through individual and team efforts in academic departments, special programs of research are conducted by faculty members and staff in many associated university research centers. The university invites students to learn more about these centers and the research opportunities they offer by visiting the websites or by contacting the individuals listed below.

Agricultural Experiment Station
Clarence Watson, associate vice president
AFLS 214
479-575-8703

Agricultural Experiment Station website (http://aaes.uark.edu)

The Arkansas Agricultural Experiment Station, a statewide unit of the UA Division of Agriculture, conducts scientific research on the dynamic biological, environmental, economic, and social systems involved in the production, processing, marketing, and utilization of food and fiber, community development, and family studies.

The experiment station, with a faculty of approximately 200 doctoral-level scientists, is an essential part of the research and technology infrastructure that supports Arkansas agriculture and the food and fiber sector.

Experiment station research is conducted in agricultural and environmental sciences, marketing and economics, social issues affecting families and rural communities, nutrition, microbiology, genetics, molecular biology, and other dynamic scientific disciplines.

Many faculty in the Dale Bumpers College of Agricultural, Food and Life Sciences conduct research in the experimental station. The result is a wealth of opportunity for students to study and work with some of the nation’s most respected scientists. Graduate students work on master’s thesis and doctoral dissertation research projects as part of a team of experiment station scientists in modern laboratories, greenhouses, and field research facilities.

The mission of the Division of Agriculture, through the combined efforts of the Experiment Station and Extension Service, is to provide new knowledge to strengthen the state’s food and fiber sector; assure a safe food supply; conserve natural resources and protect the environment; and assist in the economic and social development of communities, families, and individuals, particularly in the rural areas of the state.

Applied Sustainability Center
Jon Johnson, director
479-575-3556

The Applied Sustainability Center in the Sam M. Walton College of Business has a mission to coordinate research and education efforts across the campus with the aim of meeting current demands without compromising the needs of future generations. Some existing research areas are in agile agriculture, life cycle assessment, and reducing the carbon footprint of commercial products. Sustainability projects are undertaken in collaboration with a broad spectrum of businesses, governmental and not-for-profit organizations and academic partners.

Arkansas Archeological Survey
Thomas Green, director
ARAS 147
479-575-3556
archinfo@cavern.uark.edu

Arkansas Archeological Survey website (http://www.uark.edu/campus-resources/archinfo)

The Arkansas Archeological Survey is a research and public service organization charged by the legislature with statewide responsibility for conserving and investigating the state’s archeological heritage and with making information on this rich heritage available to all.

To this end it has an extensive publication and public relations program. With a staff of 40 (approximately half of whom are professional archeologists), it is recognized as one of the most effective state-supported archeological research organizations in the country. The survey’s coordinating office on the Fayetteville campus consists of the director, the state archeologist, computer services, editorial, graphics, and other support staff. There are also several research archeologists who carry out archeological investigations under contracts as required by law to protect the state’s archeological resources.

There are station archeologists at all 10 research stations around the state, including the Fayetteville campus, who are available for graduate guidance. The survey works closely with the university’s Department of Anthropology in training students, cooperates with the state historic preservation officer and other state and federal agencies, and trains and assists citizen groups interested in archeological conservation.

Arkansas Center for Space and Planetary Sciences
William Oliver, director
PHYS 216
479-575-6571
csaps@uark.edu

Arkansas Center for Space and Planetary Sciences website (http://spacecenter.uark.edu)

The Arkansas Center for Space and Planetary Sciences is a research institute of the University of Arkansas, created by faculty from six departments, including Biological Sciences, Chemical Engineering, Chemistry and Biochemistry, Electrical Engineering, Geosciences,
Mechanical Engineering, and Physics. Those departments, representing the J. William Fulbright College of Arts and Sciences and the College of Engineering, work closely with the Graduate School and the Honors College.

The center operates world-class research facilities and cutting-edge research projects. It houses the only university-based, large-scale planetary simulation chamber in the country along with major facilities for the analysis of extraterrestrial samples. Major research interests include the analysis of returned samples from space, the nature of Mars, and instrumentation for use in space. The center also operates a number of programs of interest to the university community, grade school teachers and students, and the public.

The space center administers master’s and doctoral degree programs in space and planetary science. These provide a unique integrative interdisciplinary education and research training based on a suite of core courses spread across the departments and specialist courses appropriate to the student’s specific interests. Professional development in communications, ethics and space policy is also included. Such training gives graduates a competitive edge in today’s space and planetary job market.

Additionally, the Departments of Biological Sciences, Geosciences and Physics offer space and planetary science as an option in their own graduate programs. Admission procedures are outlined on the space center Web site along with detailed information about the programs, the research areas, and current research projects.

**Arkansas Cooperative Fish and Wildlife Research Unit**

David Krementz, unit leader  
SCEN 632  
479-575-6709  
coopunit@uark.edu

Arkansas Cooperative Fish and Wildlife Research Unit website (http://www.coopunits.org/Arkansas)

The Coop Unit is a cooperative venture among the U.S. Geological Survey, Arkansas Game and Fish Commission, the University of Arkansas Department of Biological Sciences, and the Wildlife Management Institute. The Arkansas Coop Unit was established in 1988 and is part of a network of cooperative fish and wildlife research units that exist in 43 state and land-grant colleges across the United States. The purpose of the Coop Unit program is to conduct applied and basic wildlife and fish research, to train graduate students in research and technical assistance. The three unit personnel are federal employees stationed on the University of Arkansas campus.

**Arkansas High Performance Computing Center**

Rick McMullen, director  
479-575-6794  

Arkansas High Performance Computing Center website (http://hpc.uark.edu)

The Arkansas High Performance Computing Center is a campuswide provider of supercomputing resources for teaching and research by students and faculty. For nearly a decade, the university has strongly supported high-performance computing as a tool for enabling scientific discovery and making researchers more productive. With support from the university, the National Science Foundation and the state of Arkansas, the center has fielded two Top500 supercomputers and currently offers 4,985 cores, 13.4TB of memory, about 73 TFLOPS CPU peak performance, 93TB of long-term storage, 374TB of scratch storage, and 96TB of backup storage making it among the largest and most capable academic systems in the world. Staff members of the Arkansas High Performance Computing Center support a broad range of research programs in computational condensed matter physics, computational chemistry, nanotechnology and materials science, bioinformatics, astrophysics, and geospatial image analysis. The center also provides education and training in computational science, parallel programming and high-performance computer operations to provide both tools and skills needed in computationally intensive research.

**Arkansas Security Research and Education Insitute**

Jia Di, director  
523 J.B. Hunt Transport Services Center for Academic Excellence  
479-575-5728  

Co-directors: Chase Rainwater, Steve Ricke and Dale Thompson

The University of Arkansas is well-positioned to become a leader in the state and nation in contributing to the research for security solutions and the training of students to become future security workforce. The Arkansas Security Research and Education Institute covers four research thrusts of security: cyber, transportation, critical infrastructure, and food and water. Working closely with local industry, the institute initiates and facilitates multidisciplinary collaborations among departments and colleges, leveraging the research strengths in existing on-campus centers such as the Center for Information Security and Reliability, the Mack-Blackwell National Rural Transportation Center, the Center for Excellence in Logistics and Distribution, the National Center for Reliable Electric Power Transmission, and Center for Food Safety among others.

**Arkansas Water Resources Center**

Brian E. Haggard, director  
479-575-4403  
awrc@uark.edu

Arkansas Water Resources Center website (http://www.uark.edu/depts/awrc)

The Arkansas Water Resources Center, a unit of the Division of Agriculture, was established by Public Law in 1964. The Center utilizes scientific personnel and facilities of all campuses of the University of Arkansas System (and other Arkansas colleges and universities) in maintaining a water resources research program. The center supports specific research projects throughout Arkansas, which often provide research training opportunities for undergraduate and graduate students, and it disseminates information on water resources via publications and conferences. The center works closely with federal, state, municipal, educational, and other public groups concerned with water resources in development of its research, training, and dissemination programs.
Bessie Boehm Moore Center for Economic Education
Rita Littrell, director
RCED 217
479-575-2855
Bessie Boehm Moore Center for Economic Education website (http://bmcee.uark.edu)

The Bessie Boehm Moore Center for Economic Education, established in 1978 and located in the Walton College of Business, promotes an understanding of the American economy among the people of Arkansas. Its major efforts are directed to elementary and secondary school children. The center’s faculty and staff hold workshops and seminars for public school teachers, conduct research in economic education, develop instructional materials, maintain a lending library, and sponsor adult economic educational programs for business, labor, industry, and the general community. In recent years, center personnel have been involved in educating teachers in transitional or developing economies about market economics. The center is officially certified by the Arkansas Council on Economic Education and the National Council on Economic Education.

Center for Advanced Spatial Technologies
Jackson Cothren, director
J.B. Hunt Center for Academic Excellence, Room 304
479-575-6159
info@cast.uark.edu

Center for Advanced Spatial Technologies website (http://cast.uark.edu)

The Center for Advanced Spatial Technologies (CAST) focuses on application of geospatial technologies in research, teaching, and service. These technologies include geomatics, GIS, GPS, remote sensing, photogrammetry, geospatial software and systems design, interoperability, and large (multi-terabyte) geospatial databases. CAST has been selected as a Center of Excellence by many corporations, including the Intergraph Corporation, Trimble Navigation Inc., the Oracle Corporation, Definiens Imaging, Sun Microsystems, Spatial Acquis, and PCI Geomatics. These and other corporate sponsors have provided more than $22 million of in-kind support of the research teaching facilities of the center. In recent years, center personnel have been involved in educating teachers in transitional or developing economies about market economics. The center is officially certified by the Arkansas Council on Economic Education and the National Council on Economic Education.

CAST has been selected as a Center of Excellence by many corporations, including the Intergraph Corporation, Trimble Navigation Inc., the Oracle Corporation, Definiens Imaging, Sun Microsystems, Spatial Acquis, and PCI Geomatics. These and other corporate sponsors have provided more than $22 million of in-kind support of the research teaching facilities of the center. The center has extensive hardware and software capabilities, including more than 100 high-performance workstations, multiple Linux, Windows XP and Solaris servers (combined seven terabyte of on-line disk), large-format plotters, mapping and survey-grade GPS, MSS instruments, spectroradiometers, terrestrial laser scanners, and an extensive inventory of software.

University of Arkansas undergraduate and graduate students have a wide range of geomatics courses available to them that utilize CAST facilities and laboratories. These courses, taken along with related courses in cartography, remote sensing, image interpretation, photogrammetry, surveying, and spatial statistics, provide the student with a range of career options. In addition to classroom instruction, CAST facilities are used by students in both undergraduate and graduate research projects. The internship program in Applied Spatial Information Technologies offers students an opportunity to gain hands-on experience in geospatial technologies.

CAST staff are engaged in research projects in a wide range of areas. A few recent research projects focused on areas such as the creation of a seamless, on-line spatial data warehouse; K-12 GIS education; soil survey by remote sensing; land-use/land-cover identification; remote sensing for historic resources; natural resources wetlands analyses; multi-sensor remote sensing for historic resources; and predicting red oak borer populations.

Center for Arkansas and Regional Studies
Robert Cochran, director
MAIN 506
479-575-7708

Center for Arkansas and Regional Studies website (http://www.uark.edu/misc/carsinfo)

A multidisciplinary agency within the J. William Fulbright College of Arts and Sciences, the Center for Arkansas and Regional Studies encourages research, publication, and dissemination of knowledge about life and culture in Arkansas and the surrounding region. The center administers the interdisciplinary major in American Studies and sponsors lectures, seminars, conferences, radio programs, and international student exchanges. The center also produces workshops and audio and video documentary recordings, and works with Mullins Library to locate and collect Arkansiana and other regional materials.

Center for Business and Economic Research
Kathy Deck, director
WJWH 545
479-575-4151
cber@walton.uark.edu

Center for Business and Economic Research website (http://cber.uark.edu)

The Center for Business and Economic Research at the Sam M. Walton College of Business provides excellence in applied economic and business research to federal, state, and local government, as well as to businesses currently operating or those that desire to operate in the state of Arkansas. The Center further works to improve the economic opportunities of all Arkansans by conducting policy research in the public interest.

The Center was originally established as the Bureau of Business and Economic Research in 1943 to explore and report on economic, business, and social conditions in Arkansas. In addition to supporting research within the College, the Center supports economic development by providing economic and demographic data and analysis to business, government, and individuals. Over the years, the Center has grown to become a well-known point for communications and exchange of ideas,
research, publications and data for universities, businesses, government, and individuals. In addition, the Center serves as a focal point in providing assistance to faculty and students in experimentation with their ideas and techniques in both theoretical and applied research.

**Center for Communication and Media Research**

Robert H. Wicks, director  
KIMP 417  
479-575-3046  
rwicks@uark.edu

Center for Communication and Media Research website (http://www.uark.edu/depts/comm/Center_for_Communication_and_Media_Research.html)

The Center for Communication and Media Research (CCMR) advances knowledge and supports scholarly and applied inquiry into the study of interpersonal, group, organizational, and media communication. The center sponsors outreach programs designed to help under-served populations, educational institutions, media companies, businesses, and non-profit organizations.

Multidisciplinary in nature, the center facilitates scholarship among allied disciplines such as journalism, law, business, political science, psychology, sociology, and computer science. Research topics include communication and advertising, dispute resolution, education, environmental concerns, family, health, information technology, legal concerns, life stages, media audiences, organizational concerns, politics, and religion.

**Center for Children and Youth**

Chris Goering, director  
PEAH 305  
479-575-4209  
goering@uark.edu

Center for Children and Youth website (http://cied.uark.edu/center-for-children-and-youth.php)

The Center for Children and Youth is designed to address issues of intellectual growth, social development, literacy, the arts, and techniques for addressing generational or regional poverty issues. This will be accomplished through teacher professional development, pre-service education, research, as well as curriculum development and dissemination. The center was established by a generous gift of the Windgate Family Foundation in 2006 to the College of Education and Health Professions.

In 2010, the Center for Children and Youth hosted a national conference in Springdale, Ark., focused on the confluence of literacy and the arts. The conference featured speakers from the Kennedy Center for Performing Arts, Temple University, the National Council of Teachers of English, and local experts on arts integration approaches to teaching. Later in 2010, Dr. Chris Goering in the Curriculum and Instruction Department was appointed as the center’s first director.

**Center for Executive Education**

Therese Steifer, director  
RCED 140  
479-575-2856

cmed@walton.uark.edu

Center for Executive Education website (http://cmed.uark.edu)

The Center for Executive Education in the Sam M. Walton College of Business provides executive and middle management training opportunities designed to enhance quality in leadership, management decision making, and human resource skills and abilities for corporate and public clients. Programs provide training for implementation of current acceptable practices and approaches to problem solving that support progressive management achievements. Programs are custom designed for individual clients, or they are designed in modular fashion from several pre-prepared programs to meet the general leadership needs of organizations and include such topics as customer service, leadership, team development, total quality and continuous improvement, and personal skills development. The center serves local, national, and multinational businesses. The center operates on a fee-for-service basis, and its activities are supported from fee based revenues. It also provides directive support for Arkansas manufacturers who seek to produce and market products for the mass market and for its retailers through the Support Arkansas Made program. Support Arkansas Made assists manufacturers in the evaluation of new products and product ideas based upon marketable criteria.

**Center for Information Security and Reliability**

Brajendra Panda, director  
JBHT 504  
479-575-2067  
bpanda@uark.edu

Center for Information Security and Reliability website (http://isr.csce.uark.edu)

The center was established to promote education and research in the field of computer security and information assurance at University of Arkansas. The activities of this center includes, but not limited to the following: fostering multidisciplinary research, securing large-scale funding from federal, state, and other funding agencies, providing education and training to future work-force, increasing awareness in the field of information security and reliability by offering appropriate seminars and workshops.

**Center for Innovation in Healthcare Logistics**

Ed Pohl, director  
BELL 4207  
479-575-6029

Center for Innovation in Healthcare Logistics website (http://cihl.center)

Founded in March 2007, the Center for Innovation in Healthcare Logistics is located in the Department of Industrial Engineering and is an industry-university partnership based at the University of Arkansas that leads a nationwide effort to identify and foster systemwide adoption of groundbreaking healthcare supply chain and logistics innovations. It has achieved a leading role in healthcare supply chain progress through:

- Intensive collaboration with a variety of healthcare providers, industry organizations, and healthcare supply chain leaders in vigorous data and opinion gathering, including pilot testing at partner sites.
Center for Interdisciplinary Study of Science and the Arts

Elizabeth Hellmuth Margulis, co-director
ehm@uark.edu, 479-575-5763

Padma Viswanathan, co-director
pviswana@uark.edu

The Center for Interdisciplinary Study of Science and the Arts seeks to advance cohesion in campus-wide research and teaching that integrates science and the arts. The center will facilitate collaboration, provide an outlet for the dissemination of interdisciplinary work at the University of Arkansas, incubate ideas that introduce students to interdisciplinary modes of thinking, lend a unique identity to arts programs at the university, help attract top students whose interests often bridge science and the arts, and build on an existing strength on campus.

Center for Mathematics and Science Education

Lynne Hehr, director
346 N. West Avenue, No. 102
479-575-3875

Center for Mathematics and Science Education website (http://cmase.uark.edu)

The Center for Mathematics and Science Education – a University of Arkansas K-16 education outreach facility within the College of Education and Health Professions – works in conjunction with the Arkansas Department of Higher Education as part of a network of twelve science and math education centers on university and college campuses around Arkansas. The main objectives of the center are to:

1. Provide science, mathematics and technology professional development for K-16 pre-service and in-service teachers;
2. Assist in statewide K-16 education initiatives;
3. Coordinate regionally beneficial grant-funded programs among universities and colleges for K-16 education;
4. Provide science, mathematics and technology educational materials, resources, and information to the K-16 community; and
5. Link common K-16 education allies throughout the state.

University Day, Science/Engineering Fairs, Springfest, and various K-16 teacher and student programs are conducted through the center. Day-to-day educational outreach information is sent to local, regional, and statewide constituencies through the center’s website and various email listservs. The Center for Mathematics and Science Education is a host site for the federally sponsored Eisenhower National Clearinghouse and the Southwest Educational Development Laboratory Consortium. The center also serves as the Arkansas National Aeronautics and Space Administration Educator Resource Center, responsible for warehousing and disseminating NASA materials and providing regular updates on NASA programs and materials to the state.

Web pages specifically designed to provide a wealth of material resources and information available for public, private and home-school educators across the state can be accessed at the website.

Center for Protein Structure and Function

Frank Millett and Roger Koepple, co-directors
CHEM 119
479-575-4601

Center for Protein Structure and Function website (http://protein.uark.edu)

The Center for Protein Structure and Function is an interdisciplinary unit for research and teaching within the departments of chemistry/biochemistry and biological sciences in the J. William Fulbright College of Arts and Sciences. The center raises funds from federal, state, and private sources and sponsors faculty- and student-initiated basic research on the folded structures of protein molecules, their dynamic properties, and their diverse functions in biological systems. The center has been awarded funding from the National Science Foundation, the Arkansas Science and Technology Authority, and the National Institutes of Health.

Center for Social Research

William Schwab, director
Main 211
479-575-3206
bschwab@uark.edu

Since 1982 the Center for Social Research has provided research services to government agencies, communities and businesses. Located in the Department of Sociology, the center can conduct survey and public opinion research, impact assessment, evaluation and policy assessment. The center’s staff can provide assistance with research methodology and design, sampling, data collection and analysis.

The center’s professional staff has vast experience in virtually every aspect of social research. In addition, the center’s resources include computer-assisted telephone interviewing facilities; extensive archival data holdings, including online access to the archival holdings of the Inter-University Consortium for Political and Social Research at the University of Michigan; and, in-house statistical analysis.

For more information, contact Director William Schwab at 479-575-3206.

Center for Statistical Research and Consulting

Joon Jin Song, director
SCEN 309B
479-575-6319
csrc@uark.edu

The Center for Statistical Research and Consulting is a service and research unit of the University of Arkansas, administratively housed in the Department of Mathematical Sciences, providing faculty and graduate students in the university with an environment for collaboration in research and instruction emphasizing statistical and quantitative approaches. It offers statistical consulting and statistical software support to faculty,
staff, graduate and undergraduate students conducting research at the university. The center will extend this statistical support to the state of Arkansas, directly providing some consulting services but primarily acting as a conduit for industry, government, and non-profit organizations to engage campus faculty and graduate students in consulting opportunities. The community support activities from the center will stimulate and enhance campus research and instructional efforts as well as provide important services to organizations throughout the region.

The mission of the Center for Statistical Research and Consulting is to participate in research to provide high quality statistical input to high quality research projects, train statisticians to interact effectively with investigators from other disciplines, and encourage collaborative research between statisticians and investigators from other disciplines.

The center is a fee-for-service unit. The initial consulting meeting with a client is provided at no cost. All subsequent and follow-up visits will require financial support.

Center for Utilization of Rehabilitation Resources for Education, Networking, Training and Services

Jeanne Miller, director
105 Reserve St., Building 35
Hot Springs, AR 71902
501-623-7700

CURRENTS website (http://www.uacurrents.org/default.aspx)

Established in 1974, this center provides human resource and organization development services for a broad audience in the rehabilitation and disability communities. Projects managed by CURRENTS vary in scope from state and local to regional and national levels. The center is housed at the Hot Springs Rehabilitation Center, Hot Springs, Ark.

Center of Excellence for Poultry Science

Michael Kidd, director
POSC 114
479-575-3699

Center of Excellence for Poultry Science website (http://www.poultryscience.uark.edu)

With designation by the University of Arkansas Board of Trustees to make poultry science a center of excellence in the state’s university system, the department of poultry science became a reality in 1992.

The Department of Poultry Science and the research group are housed in the John W. Tyson Building, which is a 112,000-square-foot, state-of-the-art laboratory and office complex that was completed the fall of 1995 on the U of A campus. In addition to the John W. Tyson Building on the main campus, the Center of Excellence for Poultry Science comprises the following facilities:

- FDA-licensed feed mill;
- 10,000-square-foot processing plant used for teaching processing techniques and for ongoing food safety research projects;
- 12,000-square-foot John Kirkpatrick Skeeles Poultry Health Laboratory, which holds the highest bio-safety rating (P3) available in the country;
- A poultry research farm facility including hatchery, genetics unit, pullet-rearing facility, battery brooder, caged layer house, broiler breeder houses and turkey houses;
- Four full-sized broiler houses equipped with computerized environmental control and data collection systems capable of commercial-type production research; and
- A broiler breeder research facility that includes two full-size broiler breeder houses, a pullet-rearing facility, and quality assurance building with offices, classroom, and egg holding capacity.

Chemical Hazards Research Center

Jerry Havens, director
BELL 3157
479-575-3857
jhavens@uark.edu

Chemical Hazards Research Center website (http://www.cheg.uark.edu/4444.php)

The Chemical Hazards Research Center determines the consequences of atmospheric release of potentially hazardous materials with a present emphasis on liquefied natural gas in transportation and storage operations. Computational models are used in conjunction with the wind tunnel at the center, which is presently the largest low-speed wind tunnel suited for such studies.

Community Design Center

Stephen Luoni, director
104 N. East Ave., Fayetteville, AR 72701
uacdc@uark.edu

U of A Community Design Center website (http://uacdc.uark.edu)

The mission of the University of Arkansas Community Design Center is to advance creative development in Arkansas through education, research, and design solutions that enhance the physical environment. As an outreach center of the Fay Jones School of Architecture and Design, the Community Design Center is developing a repertoire of new design methodologies applicable to community development issues in Arkansas, with currency at the national level. The center’s design solutions introduce a multiple bottom line, integrating social and environmental measures into economic development. Integrative design solutions add long-term value and offer collateral benefits related to sustained economic capacity, enhanced ecologies, and improved public health. The design center also offers hands-on civic design experience to students who work under the direction of design professionals. The University of Arkansas
Community Design Center was founded in 1995 and has provided design and planning services to more than 30 communities across Arkansas. The design center's planning has helped Arkansas communities and organizations to secure nearly $62 million in grant funding to enact suggested improvements.

David and Barbara Pryor Center for Arkansas Oral and Visual History

Randy Dixon, director
East Square Plaza
1 East Center Street, Suite 216
479-575-6829

Pryor Center website (http://pryorcenter.uark.edu)

The mission of the Pryor Center for Arkansas Oral and Visual History is to document Arkansas' rich history by collecting the “living memories” of those who have been witness to various aspects of the state's past. Using traditional oral history methodology, the center interviews individuals, transcribes those interviews, and maintains those collections for future generations. The center is responsible for preserving these memories and making them available to scholars and researchers interested in the culture and heritage of Arkansas. The center is located in East Square Plaza on the east side of the Fayetteville Square; to contact the center, call 479-575-6829, or visit the website.

Diane D. Blair Center of Southern Politics and Society

Angie Maxwell, director
MAIN 506-A
479-575-3356

Blair Center website (http://www.uark.edu/ua/tshield)

The Blair Center, located in the Department of Political Science, is dedicated to fostering political scholarship, public service, civic consciousness, and the study of Southern politics, history and culture. The center supports graduate students studying topics relevant to the South and hosts conferences and periodic speakers discussing issues relevant to Southern politics and society.

Family and Community Institute

Kevin Fitzpatrick, director
MAIN 211
479-575-3777
kfitzpa@uark.edu

Family and Community Institute website (http://sociology.uark.edu/3550.php)

The Family and Community Institute is a joint effort of the University of Arkansas and the Harvey and Bernice Jones Center for Families in Springdale, Arkansas. The institute is a multidisciplinary research center in the J. William Fulbright College of Arts and Sciences that conducts basic and applied research, as well as policy-related studies on the critical issues facing families and communities in the region and the nation. The institute raises funds from federal, state, and private sources and sponsors applied research by faculty and students on the family and the community.

Fulbright Institute of International Relations

Donald R. Kelley, director
MAIN 428
479-575-2006

Fulbright Institute website (http://www.uark.edu/~fiir)

An interdisciplinary unit within the J. William Fulbright College of Arts and Sciences, the Fulbright Institute of International Relations encourages student and faculty research and scholarly analysis of foreign policy and international affairs. The institute sponsors instructional activities, conferences, seminars, public events, and publications, including a major spring symposium on a significant topic in international affairs. The institute's office of Study Abroad and International Exchange coordinates a number of overseas programs and provides support services for students interested in study abroad.

Garrison Financial Institute

Wayne Lee, executive director
RCED 205
479-575-4505

Garrison Financial Institute website (http://gfi.uark.edu)

The Garrison Financial Institute is an institute organized within the Sam M. Walton College of Business to advance financial education and knowledge through practice. Its mission is to enhance student learning through experience, foster research that extends and perfects best practices, and contribute to the economic development of the State of Arkansas and the welfare of its citizens. The center was founded in 2005.

Garvan Woodland Gardens

Bob Byers, garden director
550 Arkridge Road, PO Box 22240
Hot Springs National Park, AR 71913
1-800-366-4664
gardeninfo@garvangardens.org

Garvan Woodland Gardens website (http://www.garvangardens.org)

Garvan Woodland Gardens is the botanical garden of the University of Arkansas, established in 1993 by an endowment from Mrs. Verna C. Garvan. Her vision is the foundation of the Garden's mission to serve the public and provide teaching and research opportunities for the Department of Landscape Architecture and the Fay Jones School of Architecture and Design.

As early as 1985, the Department of Landscape Architecture was utilizing portions of the 210 acres on Lake Hamilton, in Hot Springs, AR, as a resource to teach local ecology and design principles. Teaching opportunities continue in these areas and currently feature urban forestry, wetland ecology, construction methods and materials, design implementation, and horticulture. Numerous designed features offer case studies for landscape architecture and architecture students as well as professionals, including the Asiatic Garden by David Slawson, a nationally recognized Japanese garden designer, and the Verna C. Garvan Pavilion, by internationally recognized architects Fay Jones and Maurice Jennings.
Research opportunities lie in wetland ecology and constructed wetland design, sustainable design, and therapeutic gardens. Ongoing public programs feature workshops on gardening techniques, bonsai collections, and perennials.

An annual symposium focuses on timely issues affecting the quality of life of people in Arkansas and the nation. Past topics include historic landscape preservation practice in Arkansas and sustainable golf course design.

Garvan Woodland Gardens is a member of the American Association of Botanical Gardens and Arboreta.

High Density Electronics Center
Simon Ang, director
HiDEC/ENRC 700
479-575-4627
HiDEC website (http://www.hidec.uark.edu)

The High Density Electronics Center (HiDEC) was established in 1991 as an interdisciplinary research program in advanced electronic packaging technologies, particularly the rapidly developing technology of multichip modules (MCMs), which allow electronic systems to be small, fast, and cheap.

With generous support from the Defense Advanced Research Projects Agency (DARPA), a large clean room was constructed, and an MCM fabrication facility, unique among universities, was installed. Current research programs focus on 3-D electronic packaging, high density laminate substrates, co-fired ceramic substrates for wireless applications, high temperature superconducting (HTSC) tunable filters, micro electromechanical systems (MEMS), and integrated passives development. The program is located in the Department of Electrical Engineering but involves faculty from six departments and more than 25 graduate students. Continuing funding comes from DARPA and several industrial sponsors. Significant national recognition has resulted from work performed at HiDEC.

HiDEC also houses the Center of Excellence for Nano-, Micro-, and Neuro-Electronics, Sensors and Systems (CENNESS).

Human Performance Laboratory
Matt Ganio, director
HPER 321
479-575-2956
Human Performance Laboratory website (http://hpl.uark.edu)

The Human Performance Laboratory in the College of Education and Health Professions in the Department of Health, Human Performance and Recreation has a dual-purpose mission: educational outreach and research programs for targeted populations. The program is committed to the pursuit of knowledge about the health and well-being of people through research, research dissemination, outreach, and service. Known for an emphasis on fitness, the program provides an opportunity for faculty and students to conduct ongoing research and service programs.

Information Technology Research Institute
Eric Bradford, managing director
JPHT 409

Information Technology Research Institute website (http://itri.uark.edu)

The Information Technology Research Institute was established by a grant from the Walton Family Charitable Support Foundation.

Institute for Advanced Data Analytics
David Douglas, co-director
479-575-6114
Ed Pohl, co-director
479-575-6029
Mark Arnold, co-director
479-575-3351

Stored data doubles every two to three years and without extracting actionable value from the data, it serves as only an expense. Data analytics are the key to extracting value from the data. The application of analytics is the key basis for competition driving innovation and productivity growth. In response to the demand for this data ecosystem, a number of units on campus are conducting research related to data analytics and big data. The Institute for Advanced Data Analytics takes statistics and analytics to the next level, serving as the catalyst for big data research, innovation, and practice by partnering with organizations seeking solutions to their data problems. The institute’s vision is to initiate and facilitate interdisciplinary collaborations among departments, colleges, and industry partners to help solve the emerging data and analytics research problems and implementation opportunities. Faculty and students at the institute work on these problems and opportunities.

Institute for Nanoscience and Engineering
Gregory Salamo, director
NANO 104
479-575-4187

Institute for Nanoscience and Engineering website (http://nano.uark.edu)

The Institute for Nanoscience and Engineering is based in the Nanoscale Material Science and Engineering Building, opened in 2011 with the state-of-the-art equipment and clean rooms necessary for building materials one atom at a time. The institute provides an interdisciplinary team of researchers in the fields of physics, engineering, chemistry and biology whose mission, in part, is to develop businesses in Arkansas based on nanoscience and engineering.
Institute of Food Science and Engineering
Jean-François Meullenet, director
Food Science Building
2650 N. Young Ave., Fayetteville, AR 72704
479-575-4040

Institute of Food Science and Engineering website (http://www.uark.edu/depts/ifse)

The Institute of Food Science and Engineering and its three technology centers grew from the commitment of the University of Arkansas Division of Agriculture to finding creative ways to bring its expertise and resources to bear on specific problems and issues that affect productivity and growth in the food processing industry, with the mission of strengthening that critical component of the agricultural sector and the entire economy.

The institute assists industry by fostering cooperative, multidisciplinary efforts that provide research to solve problems, technology transfer to put new information to work, and education in skills needed by specific industries. Alliances between the institute and private industry devise solutions to identified problems. This demand-driven approach assures a direct, positive impact on the value-added processing of food products.

The Center for Food Processing and Engineering's primary objective is to facilitate research leading to value-added products and improving the efficiency and effectiveness of the processing of agricultural products. Activities of the Center for Food Safety and Quality seek to maintain or improve the safety of foods through production, harvest, processing, distribution, and storage. The main thrust of the Center for Human Nutrition is to develop new value-added functional foods with elevated levels of health-promoting compounds and ways to motivate people to include generous amounts of these foods in their daily diets. These efforts will assure food safety and improve the sensory and nutritional quality of food to meet the nutritional requirements and food preferences of a changing society.

The offices of the Institute of Food Science and Engineering are located in the Food Science Building at the Arkansas Agricultural Research and Extension Center.

International Center for the Study of Early Asian and Middle Eastern Musics
Rembrandt Wolpert, director
MUSC 201
479-575-4701
ceam@cavern.uark.edu

International Center for the Study of Early Asian and Middle Eastern Musics website (http://www.uark.edu/ua/eam)

The International Center for the Study of Early Asian and Middle Eastern Musics, established in 2000, is a research center located in the Department of Music in the J. William Fulbright College of Arts and Sciences.

The center coordinates the international Tang Music Project and is linked with the Ancient Asian Music Preservation Project of the Library of Congress, a partnership that includes internships at the Library as well as an acquisitions program. The center also functions as the base for graduate training in historical ethnomusicology and related fields, specifically tailored toward early documented repertories of ritual- and art-music and present day performance practices in historically significant musical traditions of Asia and the Middle East. The recovery of early Asian musics and the design of music-centered algorithms and their implementation in computer programs are central aspects of the center’s research and teaching activities. The center works closely with both the Department of Music and the King Fahd Center for Middle East and Islamic Studies in sponsoring lectures, seminars, concerts, and workshops, and it collaborates in developing international ties to other institutions and in promoting student and performing-artist exchanges. For more information, contact Elizabeth Markham or Rembrandt Wolpert at 479-575-4702.

King Fahd Center for Middle East Studies
Joel Gordon, director
MAIN 202
479-575-4755

King Fahd Center for Middle East Studies website (http://mest.uark.edu)

The King Fahd Center for Middle East Studies is an academic and research unit in the J. William Fulbright College of Arts and Sciences. It is an interdisciplinary and interdepartmental area studies center that offers diverse cultural, intellectual, and educational opportunities for the University of Arkansas community. Its functions include the promotion of research and teaching in interdisciplinary Middle East studies and global Islamic studies.

Through the King Fahd Middle East Studies Program, the center offers an undergraduate major in Middle East studies and supports graduate studies in Middle East-related departments and programs. Students of superior ability who are majoring in Middle East studies may apply for MEST scholarships to help fund their studies. The center also supports summer language study and research assistantships for graduate students and teaching and research by visiting scholars from affiliated universities and programs.

Through its core faculty, the center coordinates with university departments to offer a full range of Middle East courses, supports faculty research in Middle East and Islamic studies, engages in outreach activities, and supports an ambitious program of visiting speakers and workshops. The King Fahd Center currently maintains relationships with universities in Saudi Arabia, Jordan, Morocco, Tunisia, and Russia. The center also cooperates with the Aga Khan Humanities Program in Central Asia, the Middle East Institute in Washington, D.C., and the Elijah Center for the Study of Wisdom in World Religions in Jerusalem.

Mack-Blackwell National Rural Transportation Study Center
Heather Nachtmann, director
BELL 4190
479-575-5857

Mack-Blackwell National Rural Transportation Study Center website (http://mackblackwell.uark.edu)

The Mack-Blackwell National Rural Transportation Study Center was established by a grant from the U.S. Department of Transportation to provide educational opportunities and conduct research in the area of...
rural transportation. Additional support is received from the Arkansas Highway and Transportation Department.

The broad objective of the center is to improve the quality of life in rural areas through transportation. The educational objective is to provide graduates qualified to enter the transportation-related professions with the diversity of backgrounds needed to lead transportation development in the 21st century. Although housed within the Department of Civil Engineering, the Mack-Blackwell Center’s activities are not limited to engineering. All disciplines related to or impacted by transportation participate in the center’s research and educational activities.

National Agricultural Law Center
Harrison Pittman, director
WATR 107
479-575-7646
nataglaw@uark.edu

The National Agricultural Law Center is a federally funded agricultural law research and information center located at the University of Arkansas School of Law. Created in 1987, the center fulfills its mission by conducting and sponsoring objective and authoritative agricultural and food law research and by providing bibliographic and other resources on agricultural and food law.

The center works closely with the UA School of Law Graduate Program in Agricultural Law, an academic program that awards the Master of Laws degree in Agricultural Law. Selected students in the graduate program serve as research fellows at the center during their residency in the graduate program.

The center is the only one of its kind in the United States and has received national recognition. It recently enhanced its national reach by establishing a collaborative relationship with the Agricultural Law Center at Drake University School of Law in Des Moines, Iowa.

Publications and research assistance are available in print and through the website.

National Center for Reliable Electric Power Transmission
Alan Mantooth, executive director
2055 South Innovation Way
479-575-4838

The National Center for Reliable Electric Power Transmission in the College of Engineering is located in a new building at the Arkansas Research and Technology Park. The center seeks to research and develop prototypes of advanced power electronics systems for applications in the power grid, including both protection and storage devices.

The center also serves as a test facility for advanced power electronic circuit and package designs for distribution-level voltages and high currents. The center is a unique educational resource for students interested in working in the power utility and power electronics sectors.

Office for Studies on Aging
Michelle Gray and Barbara Shadden, co-directors
HPER 321X
479-575-5262
aging@uark.edu

The Office for Studies on Aging in the College of Education and Health Professions was established in August 1999 to coordinate the resources of the university in addressing the needs of the aging population in Arkansas and beyond. The office was developed to be the center for research and study of the physical, social, and psychological aspects of the aging process drawing on a host of disciplines across campus. The office conducts research, provides services, and acts as an interface between the university and the variety of service modalities for the aging population. Initial efforts of the office are directed toward a variety of issues facing older Americans to provide meaningful solutions so that the process of aging is a positive experience, both emotionally and physically.

Office of Education Policy
Gary Ritter, director
201 Graduate Education Building
479-575-3773
www.officeforeducationpolicy.org

The Office of Education Policy serves as a resource to state lawmakers, educators, administrators, and other leaders, providing them with current national, state, and regional research in education to support them in thoughtful decision-making concerning K-12 education in the state of Arkansas. The Office of Education Policy strives to look at pressing issues through the lens of academic research, bridging the gap between research and practice.
Radio Frequency Identification Research Center
Radio Frequency Identification Research Center
Justin Patton, managing director
2700 S. Armstrong
Dock Door 28
Fayetteville, AR 72701
479-236-5890

The mission of the RFID Research Center is to create and extend knowledge in radio frequency identification utilization and its impacts on business and society. The RFID Research Center laboratory is one of only four labs worldwide to receive Performance Test Center accreditation from EPCglobal, Inc. EPCglobal leads the development of industry-driven standards for the Electronic Product Code to support the use of RFID if today's fast-moving, information-rich trading network.

Created in 2004, the RFID Research Center was the first subunit created by the Information Technology Research Institute. This new center spans many disciplines including retail, supply chain, industrial engineering, and computer science, among others. The center's base of operations is a lab which models a production warehouse environment in 7000 square feet of space donated to the center by Hanna's Candles and located within Hanna's manufacturing and warehouse facility.

Small Business and Technology Development Center
Larry Brian, director
RCED 210
479-575-5148

Small Business and Technology Development Center website (http://sbtdc.uark.edu)

The Small Business and Technology Development Center, located in the Walton College of Business, provides small business consulting and technical assistance to the business community of Northwest Arkansas. The center serves as the focal point for linking together resources of the federal, state, and local governments with resources of the university, the Sam M. Walton College of Business, and the private sector. These resources are utilized to counsel and train small businesses in resolving organizational, financial, marketing, technical, and other problems they might encounter. The Small Business and Technology Development Center offers free consulting services to small business clients. Seminars for small businesses are offered on a wide range of topics. Small Business Administration publications, other relevant small business publications, and Internet access are available for small business owners in the Small Business and Technology Development Center's resource center.

Speech and Hearing Clinic
606 N Razorback Road
479-575-4509

Speech and Hearing Clinic website (http://cdis.uark.edu/spcl.php)

The Speech and Hearing Clinic in the College of Education and Health Professions in the Department of Rehabilitation, Human Resources, and Communication Disorders provides evaluation, treatment, on-site consultation in schools and homes, and small group therapy services. The clinic offers evaluation and treatment for children and adults in the areas of hearing loss, central auditory processing, articulation, fluency, voice, language, augmentative and alternative communication, swallowing, and spoken English for foreign speakers. These services are provided by graduate students in the program under the direct supervision of audiologists and speech-language pathologists on the program faculty. It continues to expand its reputation as a regional center for services in augmentative communications and assistive technology.

Supply Chain Management Research Center
Jim Crowell, director
WJWH 538
479-575-6107

Supply Chain Management Research Center website (http://scmr.uark.edu)

The Supply Chain Management Research Center at the Sam M. Walton College of Business sponsors and promotes supply chain, logistics, and transportation research and education. Center faculty view the supply chain as the channel that integrates business processes from suppliers through end users, providing value-added products, services, and information. Supply chain management incorporates both inter- and intra-company logistics, transportation, and management systems.

The center undertakes research and training in all aspects of the supply chain. It has sponsored research on vendor-managed inventory, trained salespersons and developed systems for material requirements planning, and simulated supply chains for logistics executives. The center has a broad range of interests and capabilities and has close ties to and cooperative programs within the Walton College, such as the Center for Retail Excellence, the Information Technology Research Center and other centers at the university, such as the Logistics Institute in the College of Engineering. The Supply Chain Management Research Center is unique in that its capabilities span the technical and managerial arenas of supply chain management.

The center's Board of Directors includes representatives of firms such as ABF Freight Systems, American Freightways, Colgate-Palmolive, Federal Express, J.B. Hunt Transport, Pillsbury, Sunbeam, Tyson Foods, Unilever HPC, and Wal-Mart. The Board of Directors, along with notable supply chain professionals from business and academia, meet annually to discuss the state of the art in supply chain management and to provide advice and direction for the center.

For additional information about the Supply Chain Management Research Center at the Sam M. Walton College of Business contact the center at 479-575-7334 or fax 479-575-4173.

Terrorism Research Center
Brent L. Smith, director
MAIN 228
479-575-3401
bls@uark.edu

Terrorism Research Center website (http://trc.uark.edu)

The Terrorism Research Center in the J. William Fulbright College of Arts and Sciences houses the American Terrorism Study, the nation's only
comprehensive longitudinal database on American terrorism. Conducted in cooperation with the Federal Bureau of Investigation and sponsored by the U.S. Senate Judiciary Committee, the American Terrorism Study provides a record of federal terrorism cases resulting from indictment under an FBI "terrorism enterprise" investigation from 1980 to the present. The center is also engaged in several projects examining the spatial and temporal dimensions of terrorism, precursor and preparatory terrorist crimes, and prosecutorial and defense strategies in terrorism trials. The center's research is funded by the Department of Homeland Security through the Memorial Institute for the Prevention of Terrorism and the Department of Justice through the National Institute of Justice.

Tyson Center for Faith and Spirituality in the Workplace

WJWH 518
479-575-3721
jan002@uark.edu

Tyson Center for Faith and Spirituality in the Workplace website (http://tfsw.uark.edu)

The center’s vision is to be recognized as an international center networked with other international centers, where students, academics, practitioners, business leaders and faith leaders come together to understand the effects of faith and spirituality in the workplace and develop methodologies to help transform organizations in a way that has a positive impact on the world. The center teaches courses on faith and spirituality in the workplace, provides resources to businesses and community, and maintains a database of relevant research, including conducting its own case studies.

The Tyson Center for Faith and Spirituality in the Workplace was established by a grant from Tyson Foods Inc. and the Tyson Family Foundation in 2009.
Glossary

Act 1052/467. Section 21 of Arkansas Act 467 of 1989 specifies that all first-time entering freshmen who are enrolled in a bachelor’s degree program will be placed in either college-level credit courses in English and mathematics or developmental courses in English composition, reading, and mathematics on the basis of their scores on specified tests. Find out more in the Registration (http://catalog.uark.edu/undergraduatecatalog/orientationandregistration) section of the catalog.

Activity Course. Course devoted to participation in, knowledge of, or performance of some form of physical activity.

Add. See Drop/Add below.

Additional Major. Students fulfilling all requirements for the B.S., B.S.W., B.F.A. and B.M. degrees, including all core requirements and at least one major in these degree programs, may also claim an additional major in a humanistic discipline, social science, or interdisciplinary program associated with a B.A. degree. Upon completion of all major requirements of the additional discipline, the additional major will be made part of the student’s transcript; however, a B.A. degree is not awarded. This is also an option in German for any non-arts and science student.

Advance Registration. A period of time scheduled during a regular (fall or spring) semester that allows currently enrolled students to register for the next regular semester. In addition, advance registration for the summer sessions is scheduled during the spring semester.

Applied Instruction. A course that integrates both the teaching and hands-on application of knowledge or information; attends to the practical and utilitarian function of the subject (distinguished from theoretical). Examples may include: livestock judging team, music and art courses, cooperative education, and experiential learning.

Apprenticeship/Externship. Experiential learning opportunity to give students practical exposure and training in a career field. This is generally off-campus, supervised, and designed to prepare students for the transition from school to career.

Area Studies. Interdisciplinary study of geographical or cultural areas. Topics include the history, geography, politics, culture, language, and literature of the area. Generally, an area study is offered as a minor or a second major.

Audit. To take a course without credit.

Adviser. A faculty or staff member assigned to a student to advise that student on academic matters that include degree requirements and other academic requirements that must be completed to receive certification.

Certification Requirements. The set of course, hour, and other academic requirements that must be completed to receive certification.

Class Schedule. List of courses and sections for a specific semester, including names of instructors; day, hour, and place of class meetings; and detailed registration procedures. The class schedule is available online.

Clinical Rotation/Instruction. Course that takes place in a clinical setting, including practice labs, hospitals, and other agencies; students apply methods and principles of a clinical discipline.

College or School. One of ten major divisions within the university that offers specialized curricula.

Combined Major. A combination of subsets of two primary discipline specific requirements, each of which is typically 15 to 24 hours and less than the number required for a major, which together constitute the major in a program of study leading to one bachelor’s degree with a combined major in two disciplines.

Concentration. A subset of requirements within the discipline-specific requirements of a program of study (graduate field of study or undergraduate major) leading to a graduate or bachelor’s degree.

Consent. A prerequisite that requires the student to obtain approval from the instructor or the department before he or she will be allowed to register for the course.

Core. A core of required coursework may be specified for students at the university level, the college or school level, the department level, and the program or area level. A core is what is required for all students at that level or in that program. Core and major requirements are usually stated either in terms of specific required courses or of lists of courses from which any course chosen will meet the requirement. The “list” may actually be a defined set such as lower-level courses or upper-level courses; courses in the department, in the program, or in the college; or courses identified by one or more course, program, or department codes. Elective courses may involve a greater or lesser degree of student choice. A general elective course could be one that is needed to complete the number of hours required for the degree when no other requirements remain to be met. A free elective course may be one that is not needed to complete either course requirements or hour requirements. See University Core below.

Corequisite. A course that must be taken at the same time as the course described.

Correspondence. See Self-Paced (Correspondence) below.

Course. A unit of academic instruction.

Course Deficiencies. Lacking required units of study in high school. Find out more in the Placement and Proficiency portion (http://catalog.uark.edu/undergraduatecatalog/enrollmentservices/placementandproficiencytests) of the Enrollment Services section of the catalog.

Course Load. The number of semester credit hours a student may schedule in a given term.

Cumulative Grade-Point Average. An average computed by dividing the total number of grade points earned by the total number of credit hours attempted in all courses for which grades (rather than marks) are given.

Curriculum. A program of courses comprising the formal requirements for a degree in a particular field of study.

Degree Program. A program of study defined by sets of academic requirements that lead to a degree which the university is authorized to offer. Undergraduate degree requirements are typically stated in terms of numbers of credit hours and specific courses at the university, college or school, and discipline levels. Graduate degree requirements are typically stated in terms of number of credit hours and specific courses at the discipline level.
Department. Division of faculty or instruction within a college, such as Department of Accounting within the Sam M. Walton College of Business.

Dependent Major. See Second Major below.

Dismissal. A status in which students are not permitted to enroll at the university until approved through an appeal process.

Dissertation/Thesis Research. Research conducted and submitted in support of candidacy for a degree or professional qualification; a formal treatise presenting the results of study submitted in partial fulfillment of the requirements of an advanced degree; process requires intensive interaction between student and professor.

Double Degree Program. A program of study that includes one set of university requirements and two sets of college or school and primary discipline-specific requirements and leads to two different bachelor’s degrees with two different majors.

Double Major. The two complete sets of primary discipline-specific requirements, typically consisting of a minimum of 30 hours each, constituting the two majors within a program of study leading to one bachelor’s degree with two complete majors.

Drill. Supplemental instruction or practice using repetition or discussion.

Drop/Add. Official dropping or adding of courses for which students are registered during specified times as published in the schedule of classes. See also Withdrawal below.

Eight-Semester Degree Completion Program. Most majors offered by the University of Arkansas can be completed in eight semesters, and the university provides plans that show students which classes to take each semester in order to finish in eight semesters. A few undergraduate majors either require a summer internship or fieldwork or are five-year professional programs, and may therefore not qualify for the eight-semester degree completion program.

Elective. Elective courses may involve a greater or lesser degree of student choice. A general elective course could be one that is needed to complete the number of hours required for the degree when no other requirements remain to be met. A free elective course may be one that is not needed to complete either course requirements or hour requirements.

Equivalent. A course allowed in place of a similar course in the same academic discipline. May require approval by an academic dean.

Externship. See Apprenticeship/Externship above.

Fees. Charges, additional to tuition, that cover specific university services, programs, facilities, activities and/or events. Find out more in the undergraduate Fee and Cost Estimates (http://catalog.uark.edu/undergraduatecatalog/feecosts) or the graduate Fee and Cost Estimates (p. 228) section.

Field of Study. The primary discipline-specific (or multidisciplinary or interdisciplinary) set of requirements in a graduate program of study. The field of study typically consists of a minimum of 30 hours at the master’s degree level, of 30 hours beyond the master’s degree at the educational specialist level, and of 96 hours for the doctor of education degree. Field of study hour requirements vary more widely for the doctor of philosophy degree, but 60 hours is typical.

Field Studies. Hands-on study undertaken outside the laboratory or place of learning, usually in a natural environment or among the general public. Examples may include archeological and geological field studies.

Focused Studies. A set of courses that a student may elect to take as part of the major requirements and which provides focus in a particular area related to the major. Completing a focused study is not required for the major, but serves as a guide for students who want to further specialize their studies. Focused studies do not need Arkansas Department of Higher Education approval and do not appear on the transcript.

Grade Points. Points per semester hour assigned to a grade (not a mark), indicating numerical value of the grade. The grade-point average indicates overall performance and is computed by dividing the total number of grade points earned by the number of semester hours attempted.

Grade Sanction(s). A penalty for academic dishonesty. Grade sanctions may consist of either a grade of zero or a failing grade on part or all of a submitted assignment or examination or the lowering of a course grade, or a failing grade of XF to denote failure by academic dishonesty.

Hazing. Any activity that is required of an individual that may cause mental or physical stress and/or embarrassment when in the process of joining or belonging to any organization.

Independent Study. Project collaboratively designed by the instructor and student to pursue an area of study not covered by the established curriculum; typically completed without class attendance but through formal supervision by an instructor.

Internship. A formal program that provides practical experience in an occupation or profession; applied, monitored, and supervised, field-based learning experience for which the student may or may not be paid: may include field work/experience, supervised courses, student teaching, and cooperative education; provides opportunities for students to gain experience in a career field.

Intersession. A two-week mini-term that is held between the regular fall, spring, and summer terms. Coursework during an intersession is very concentrated and intensive. Intersession classes are not available to new freshmen.

Laboratory. Course meeting in a defined physical setting for the hands-on application of methods and principles of a discipline; credit-bearing section which requires a registration separate from the lecture component of the course.

Lecture. A class session in which an instructor speaks on a specific topic.

Lecture/Laboratory. Lecture course which integrates a lab component as part of the same course registration.

Major. The primary set of discipline-specific (or multidisciplinary or interdisciplinary) requirements in an undergraduate program of study. The major typically consists of a minimum of 30 hours and identifies by name a specific degree area.

Minor. The lesser set of discipline-specific (or multidisciplinary or interdisciplinary) requirements in an undergraduate program of study. The minor typically consists of a minimum of 15 hours or more in a designated discipline.
**Noncredit Course.** A course for which no credit is given. (Some credit courses will not count toward degrees.)

**Overload.** A course load of more semester hours than a student is normally permitted to schedule in a given period.

**Practicum.** Involves supervised activities emphasizing practical application of theory, especially one in which a student gains exposure to a field of study; generally required as part of the program curriculum.

**Pre-Professional Requirements.** The set of course, hour, and other academic requirements that must be completed before entry into a school, a program of study, or an advanced level of a program of study, either at the U of A or at another institution.

**Prerequisite.** A course or requirement that must be completed before the term when the described course is taken.

**Private Study.** Involves individual instruction with regular meetings; one-to-one demonstration, performance critique, music, fine arts or performing arts are examples.

**Probation.** A status resulting from unsatisfactory grades.

**Readings.** A course where the instructor assigns readings and facilitates discussion at regular class meetings.

**Registration.** Enrollment at the beginning or prior to the beginning of a semester, including selection of classes and payment of fees and tuition.

**Research.** Research conducted that is independent of that done for a dissertation or thesis.

**Sanction(s).** The penalty for noncompliance to a policy. Usually a response that will redirect the individual or group’s inappropriate behavior, encourage responsible judgment and ethical reasoning, protect the community’s property and rights, and affirm the integrity of the institution’s conduct standards.

**Section.** A division of a course for instruction. A course may be taught in one or more sections or classes at different times, depending on enrollment in the course.

**Second Major.** (Also referred to as a Dependent Major.) A second complete set of primary discipline-specific requirements in a discipline in which only a second or dependent major may be earned. A second major must be earned in a degree program in which the first major is one authorized to be given independently. Typically a minimum of 30 hours is earned in each major area or discipline.

**Self-Paced (Correspondence).** Course in which instruction is web-based and students are physically separated from the instructor. Interaction between instructor and student is not regular or substantive, and is primarily initiated by the student. These courses are self-paced and are not distance education. Students are not required to be admitted to the University of Arkansas to take a self-paced course.

**Semester Credit Hour.** Unit of measure of college work. One semester credit hour is normally equivalent to one hour of class work or from two to six hours of laboratory work per week for a semester.

**Seminar.** Involves a small group of students engaged in advanced study and original research under a member of the faculty and meeting regularly to exchange information and hold discussions; highly focused and topical course; may include student presentations and discussions of reports based on literature, practices, problems, or research.

**Special Problems.** Individualized investigation of topics or case studies in a specific field under the supervision of an instructor for the purpose of enhancing or illuminating the regular curriculum.

**Special Topics.** An organized course devoted to a particular issue in a specific field; course content is not necessarily included in the regular curriculum for the major.

**State Minimum Core.** See University Core below.

**Student Number.** A number given to each student as a permanent identification number for use at the university.

**Studio Course.** Involves the application of design and theory in a defined physical setting; students explore and experiment under the guidance of an instructor.

**Summer Sessions.** Periods of time during the summer when course work is offered. (Go to the Academic Calendar (p. 9) for specific times and dates.)

**Suspension.** A status in which students are not permitted to register for courses for a specified time period.

**Syllabus.** An outline or summary of the main points of a course of study, lecture, or text.

**Telecommunications.** Course that utilizes technology in conveying teaching material. This only includes courses that use technology as the primary delivery method of course content, not courses that simply use technology to support another delivery method. These are distant education courses that generally: Uses one or more of the following technologies to deliver instruction to students who are separated from the instructor and to support regular and substantive interaction between the students and the instructor, synchronously or asynchronously. The technologies used may include:

- The Internet;
- One-way and two-way transmissions through open broadcast, closed circuit, cable, microwave, broadband lines, fiber optics, satellite, or wireless communications devices;
- Audioconferencing, etc.; or
- Videocassettes, DVDs, and CD-Roms, if the videocassettes, DVDs, or CD-Roms are used in conjunction with any of the technologies listed in the first three options


**Track.** A subdivision of a concentration or certificate, which a student must select and fulfill to complete the requirements of the concentration or certificate.

**Transcript.** A copy of a student’s academic record.

**Tuition.** The charge for university enrollment and registration, calculated per credit hour each semester. Tuition rates may vary depending on a student’s resident status, undergraduate or graduate standing, and college affiliation. Tuition does not include cost of room and board. Additional charges will apply depending on student status. See the entry for Fees above.
UAConnect. The online database that maintains student, faculty and staff records and class schedules.

Undeclared Major. Designation indicating students who have not selected a major.

Undergraduate Study. Work taken toward earning an associate or a baccalaureate degree.

University Core. The state of Arkansas specifies a number of core courses that students must successfully pass to obtain a degree. These are also sometimes referred to as the State Minimum Core. Find out more in the Requirements for Graduation (http://catalog.uark.edu/undergraduatecatalog/academicregulations/requirementsforgraduation) and University Core (http://catalog.uark.edu/undergraduatecatalog/academicregulations/universitycore) portions of the Academic Regulations section.

Withdrawal. Official withdrawal from all courses during a semester at the university.
Welcome to the University of Arkansas
This catalog of studies is a comprehensive reference for your years of graduate study – a list of courses and degrees offered through the Graduate School at the University of Arkansas. It offers valuable information such as suggested and required degree plans and information about costs, scholarships and financial assistance, and campus resources. Read it with pleasure and with care.

The University of Arkansas is committed to your success. The faculty and staff are here to support you as you work to achieve your goals. Ask for help and advice whenever you need it. Take every opportunity to consult your academic adviser to ensure that you are taking advantage of courses and university resources that will help you reach your educational and career goals and graduate on time.

The University of Arkansas provides educational opportunities to all qualified students regardless of their economic or social status and will not discriminate on the basis of race, color, sex, creed, sexual orientation, disability, veteran’s status, age, marital or parental status, or national origin.

For More Information
See the University of Arkansas Directory (http://directory.uark.edu) for a more comprehensive directory of offices and personnel.

Admissions
Undergraduate Admissions 232 Silas H. Hunt Hall 479-575-5346
School of Law Admissions 110 Waterman Hall 479-575-3102
Graduate School Admissions 213 Gearhart Hall 479-575-6246
International Admissions 213 Gearhart Hall 479-575-6246

Campus Tours & Visits
Office of Admissions 232 Silas H. Hunt Hall 479-575-5346
Graduate School Admissions 213 Gearhart Hall 479-575-6246

Deans’ Offices
Honors College 244 Ozark Hall 479-575-7678
Dale Bumpers College of Agricultural, Food and Life Sciences E-108 Agricultural, Food and Life Sciences Bldg 479-575-2252
Fay Jones School of Architecture Vol Walker Hall 479-575-4945
J. William Fulbright College of Arts & Sciences 517 Old Main 479-575-2509
Sam M. Walton College of Business WCOB 328 479-575-4622
College of Education and Health Professions Office of the Associate Dean, GRAD 317 479-575-4205
College of Engineering BELL 3189 479-575-5412

Housing
University Housing 410 Arkansas Avenue 479-575-3951

International Students
International Admissions 213 Gearhart Hall 479-575-6246
International Students and Scholars 104 Holcombe Hall 479-575-5003

New Undergraduate Student Orientation
Admissions 232 Silas H. Hunt Hall 479-575-4200

Registration
Office of the Registrar Main Office: 141 Uptown East (UPTE) 479-575-5451
Campus Office: 146 Silas H. Hunt Hall (HUNT) 479-575-5451

ROTC
Air Force ROTC 319 Memorial Hall 479-575-3651
Army ROTC 207 Military Science Building 479-575-4251

Self-Paced Online Courses

Fee Payments
Student Accounts Arkansas Union Room 213 479-575-5651

Financial Aid and Scholarships
Office of Financial Aid 114 Silas H. Hunt Hall 479-575-3806
Academic Scholarship Office 101 Old Main 479-575-4464

Greek Life
Walton Hall Charles and Cappy Whiteside Greek Life Center 479-575-5001

Honors Programs
Honors College 244 Gearhart Hall 479-575-7678
Dale Bumpers College of Agricultural, Food and Life Sciences Dean’s Office AFLS E-108 479-575-2252
Fay Jones School of Architecture Vol Walker Hall 479-575-4945
J. William Fulbright College of Arts & Sciences 517 Old Main 479-575-2509
Sam M. Walton College of Business WCOB 328 479-575-4622
College of Education and Health Professions Office of the Associate Dean, GRAD 317 479-575-4205
College of Engineering BELL 3189 479-575-5412

Toll Free 1-800-638-1217
Student Affairs
Vice Provost for Student Affairs and Dean of Students 325 Administration Building 479-575-5007

Testing (ACT, CLEP, LSAT, GRE, etc.)
Toll-Free Number 1-800-377-8632

The following offices may be reached by dialing this toll-free number between 8 a.m. and 4:30 p.m. each weekday:

- Office of Admissions (undergraduate)
- Office of Scholarships and Financial Aid
- New Undergraduate Student Orientation

Transcripts, Academic Records
Office of the Registrar Main Office: 141 Uptown East (UPTE) 479-575-5451
Campus Office: 146 Silas H. Hunt Hall (HUNT) 479-575-5451

University Switchboard
University Switchboard 479-575-2000

Veterans Affairs
Veterans Resource and Information Center 632 Arkansas Union 479-575-8742

University of Arkansas
An office and building address from above University of Arkansas Area Code: 479
Fayetteville, AR 72701

Fields of Study

The following graduate fields of study are offered by the Graduate School and the Graduate School of Business at the University of Arkansas:

**College of Agricultural, Food and Life Sciences**
- Bioengineering and Sustainability Technology (p. 57) (BSTCGC)

**Department of Accounting (ACCT)**
- Master of Accountancy (p. 49) (ACCTMA)
- Ph.D. in Business Administration (p. 49) (ACCTPH)

**Department of Agricultural Education, Communications, and Technology (AECT)**
- M.S. in Agricultural & Extension Education (p. 56) (AEEDMS)

**Department of Agricultural Economics & Agribusiness (AEAB)**
- M.S. in Agricultural Economics (p. 54) (AGECMS)

**Dale Bumpers College of Agricultural, Food & Life Sciences (AFLD)**
- M.S. in Food Safety (p. 57) (FDFSMS)
- Ph.D. in Plant Science (p. 155) (PTSC) (interdisciplinary)

**Department of Animal Science (ANSC)**
- M.S. in Animal Science (p. 58) (ANSCMS)
- Ph.D. in Animal Science (p. 58) (ANSCPH)

**Department of Anthropology (ANTH)**
- M.A. in Anthropology (p. 59) (ANTHMA)
- Ph.D. in Anthropology (p. 59) (ANTHPH)

**Department of Art (ARTS)**
- M.F.A. in Art (p. 61) (ARTMFA)

**Fulbright College of Arts & Sciences (ARSD)**
- M.A. in Comparative Literature and Cultural Studies (p. 83) (CLCSMA) (interdisciplinary)
- Ph.D. in Comparative Literature and Cultural Studies (p. 83) (CLCSPH) (interdisciplinary)

**Department of Biological & Agricultural Engineering (BAEG)**
- M.S.B.E. in Biological Engineering (p. 65) (BENGMS)
- M.S.En.E. in Environmental Engineering (p. 110), in collaboration with Civil Engineering
- Ph.D. in Engineering (p. 103) (BENGPH)

**Department of Biological Sciences (BISC)**
- M.S. in Biology (p. 64) (BIOLMS)
- Ph.D. in Biology (p. 64) (BIOLPH)

**Department of Biomedical Engineering (BMEG)**
- M.S.B.M.E. in Biomedical Engineering (p. 67) (BMEGMS)
- Ph.D. in Engineering (p. 103) (BMEGPH)

**Graduate School of Business**
- M.Acc. in Accounting (p. 49)
- M.A. in Economics (p. 94)
- M.B.A. in Business Administration (p. 69)
- M.B.A./J.D. (p. 69), dual degree
- M.B.A./M.P.S. (p. 69) dual degree
- M.I.S. in Information Systems (p. 126)
- Ph.D. in Business Administration (p. 69)
- Ph.D. in Economics (p. 94)
- Graduate Certificates (non-degree) in the following:
  - Business (p. 69)
  - Enterprise Systems (p. 126)
  - Entrepreneurship (p. 69)

**Ralph E. Martin Department of Chemical Engineering (CHEG)**
- M.S.Ch.E. in Chemical Engineering (p. 75) (CHEGMS)
- Ph.D. in Engineering (p. 103) (CHEGPH)

**Department of Chemistry & Biochemistry (CHBC)**
- M.S. in Chemistry (p. 77) (CHEMMS)
- Ph.D. in Chemistry (p. 77) (CHEMPH)

**Department of Civil Engineering (CVEG)**
- M.S.C.E. in Civil Engineering (p. 79) (CVEGEMS)
- M.S.En.E. in Environmental Engineering (p. 110) (ENEGMS)
- Ph.D. in Engineering (p. 103) (CVEGPH)

**Department of Communication (COMM)**
- M.A. in Communication (p. 80) (COMMA)

**Department of Computer Science & Computer Engineering (CSCSCE)**
- M.S. in Computer Science (p. 85) (CSCEMS)
- M.S.Cmp.E. in Computer Engineering (p. 85) (CENGMS)
- Ph.D. in Computer Science (p. 85) (CSCEPH)
- Ph.D. in Engineering (p. 103) (CENGPH)

**Department of Crop, Soil & Environmental Sciences (CSES)**
- M.S. in Crop, Soil & Environmental Sciences (p. 90) (CSESMS)
- Ph.D. in Crop, Soil & Environmental Sciences (p. 90) (CSESPH)

**Department of Curriculum & Instruction (CIED)**
- M.A.T. in Childhood Education (p. 78) (CHEDMA)
- M.A.T. in Secondary Education (p. 164) (SEEDMA)
- M.Ed. in Career and Technical Education (p. 73) (CATEME)
- M.Ed. in Curriculum and Instruction (p. 91) (CIEDME)
- M.Ed. in Educational Leadership (p. 97) (EDLEME)
- M.Ed. in Educational Technology (p. 101) (ETECME)
- M.Ed. in Special Education (p. 172) (SPEDME)
• M.Ed. in Teaching English to Speakers of Other Languages (p. 177) (TESLME)
• Ed.S. in Curriculum and Instruction (p. 91) (CIEDES)
• Ed.S. in Educational Leadership (p. 97) (EDLEES)
• Ed.D. in Educational Leadership (p. 97) (EDLEED)
• Ph.D. in Curriculum and Instruction (p. 91) (CIEDPH)
• Graduate Certificates (non-degree) in the following:
  • Applied Behavior Analysis (p. 172) (APBAGC)
  • Arkansas Curriculum/Program Administrator (p. 97) (ACPAMC)
  • Autism Spectrum Disorders (p. 172) (AUTSGC)
  • Building-Level Administration (p. 97) (PSBLMC)
  • District-Level Administration (p. 97) (PSDLMC)
  • STEM Education for Early Childhood (p. 78) (K-4) (STEMGC)

Department of Economics (ECON)
• M.A. in Economics (p. 94) (ECONMA)
• Ph.D. in Economics (p. 94) (ECONPH)

Department of Education Reform (EDRE)
• PhD. in Education Policy (p. 96) (EDPOPH)

Department of Electrical Engineering (ELEG)
• M.S.E.E. in Electrical Engineering (p. 102) (ELEGMS)
• Ph.D. in Engineering (p. 103) (ELEGPH)

College of Engineering (ENGR)
• M.S.E. in Engineering (p. 103) (ENGRME)
• Ph.D. in Engineering (p. 103) (ENGRPH)

Department of English (ENGL)
• M.A. in English (p. 104) (ENGLMA)
• M.F.A. in Creative Writing (p. 89) (CRWRMF)
• Ph.D. in English (p. 104) (ENGLPH)
• Graduate Certificate (non-degree) in Technical Writing and Public Rhetorics (p. 104) (TWRHGC)

Department of Entomology (ENTO)
• M.S. in Entomology (p. 107) (ENTOMS)
• Ph.D. in Entomology (p. 107) (ENTOPH)

Department of Finance (FINN)
• Ph.D. in Business Administration (p. 69) (BADMPH)

Department of Food Science (FDSC)
• M.S. in Food Science (p. 114) (FDSCMS)
• Ph.D. in Food Science (p. 114) (FDSCPH)

Department of Geosciences (GEOS)
• M.S. in Geography (p. 115) (GEOGMS)
• M.S. in Geology (p. 115) (GEOLMS)
• Ph.D. in Geosciences (p. 115) (GEOSPH)
• Graduate Certificate in Geospatial Technologies (p. 115) (GiSTGC)

Department of Health, Human Performance and Recreation (HHPR)
• M.A.T. in Athletic Training (p. 117) (ATTRMA)
• M.Ed. in Physical Education (p. 152) (PHEDME)
• M.Ed. in Recreation and Sport Management (p. 162) (RESMME)
• M.S. in Community Health Promotion (p. 82) (CHLPMS)
• M.S. in Kinesiology (p. 131) (KINSMS)
• Ed.D. in Recreation and Sport Management (p. 162) (RESMED)
• Ph.D. in Community Health Promotion (p. 82) (CHLPPH)
• Ph.D. in Health, Sport and Exercise Science (p. 118) (HSESPPH)
• Ph.D. in Kinesiology (p. 131) (KINSPH)

Department of History (HIST)
• M.A. in History (p. 121) (HISTMA)
• Ph.D. in History (p. 121) (HISTPH)

Department of Horticulture (HORT)
• M.S. in Horticulture (p. 122) (HORTMS)
• See also Ph.D. in Plant Science (p. 155)

School of Human Environmental Sciences (HESC)
• M.S. in Human Environmental Science (p. 123) (HESCMS)

Department of Industrial Engineering (INEG)
• M.S.I.E. in Industrial Engineering (p. 125) (INEGMS)
• M.S.O.M in Operations Management (p. 150) (OPMGMS)
• Ph.D. in Engineering (p. 103) (INEGPH)

Interdepartmental Degree Program
• Ph.D. in Food Science (p. 114) (ANSC, FDSC, HESC, HORT)

Interdisciplinary Studies that Span Colleges
• M.S. in Cell & Molecular Biology (p. 73) (CEMBMS)
• M.S. in Microelectronics-Photonics (p. 137) (MEPHMS)
• M.S. in Space & Planetary Sciences (p. 170) (SPACMS)
• M.S. in Statistics and Analytics (p. 173) (STANMS)
• Ph.D. in Cell & Molecular Biology (p. 73) (CEMBPH)
• Ph.D. in Environmental Dynamics (p. 109) (ENDYPH)
• Ph.D. in Microelectronics-Photonics (p. 137) (MEPHPH)
• Ph.D. in Public Polic (p. 162) (PUBPPH)
• Ph.D. in Space & Planetary Sciences (p. 170) (SPACPH)
• Graduate Certificates
  • African and African American Studies (p. 53) (AASTGC)
  • Cross-Sector Alliances (p. 91) (CSALGC)
  • Preparing for the Professoriate (p. 158) (PROFGC)
  • Sustainability (p. 176) (SUSTGC)

Department of Information Systems (ISYS)
• M.I.S. in Information Systems (p. 126) (INSYMI)
• Ph.D. in Business Administration (p. 126) (ISYSPH)

Lemke Department of Journalism (JOUR)
• M.A. in Journalism (p. 130) (JOURMA)

Department of Management (MGMT)
• Ph.D. in Business Administration (p. 132) (MGMTPH)
• Graduate Certificate in Entrepreneurship (p. 69) (ENTRGC)

Department of Marketing (MKTG)
• Ph.D. in Business Administration (p. 133) (MKTGPH)
Department of Mathematical Sciences (MASC)
- M.A. in Secondary Mathematics (p. 134) (SMTHMA)
- M.S. in Mathematics (p. 134) (MATHMS)
- Ph.D. in Mathematics (p. 134) (MATHPH)

Department of Mechanical Engineering (MEEG)
- M.S.M.E. in Mechanical Engineering (p. 136) (MEEGMS)
- Ph.D. in Engineering (p. 103) (MEEGPH)

Department of Music (MUSC)
- M.M. in Music (p. 141) (MUSCMM)
- Graduate Certificate
  - Advanced Instrumental Performance (p. 141) (non-degree) (MUSCGC)

School of Nursing (NURS)
- M.S.N. in Nursing (p. 145) (NURSMS)
- D.N.P. in Nursing (p. 145) (NURSDP)

Department of Philosophy (PHIL)
- M.A. in Philosophy (p. 151) (PHILMA)
- Ph.D. in Philosophy (p. 151) (PHILPH)

Department of Physics (PHYS)
- M.A. in Physics (p. 152) (PHYSMA)
- M.S. in Physics (p. 152) (PHYSMS)
- Ph.D. in Physics (p. 152) (PHYSPH)

Department of Plant Pathology (PLPA)
- M.S. in Plant Pathology (p. 154) (PLPAMS); See also Ph.D. in Plant Science (p. 155)

Department of Political Science (PLSC)
- M.A. in Political Science (p. 156) (PLSCMA)
- M.P.A. in Public Administration (p. 160) (PADMMP)
- J.D./M.A. Program (p. 157), dual degree
- J.D./M.P.A. Program (p. 161), dual degree

Department of Poultry Science (POSC)
- M.S. in Poultry Science (p. 157) (POSCMS)
- Ph.D. in Poultry Science (p. 157) (POSCPH)

Department of Psychological Science (PSYC)
- M.A. in Psychology (p. 158) (PSYCMA)
- Ph.D. in Psychology (p. 158) (PSCYPH)

Department of Rehabilitation, Human Resources, & Communication Disorders (RHRC)
- M.Ed. in Adult and Lifelong Learning (p. 52) (ADLLMA)
- M.Ed. in Higher Education (p. 119) (HIEDED)
- M.Ed. in Human Resource and Workforce Development Education (p. 123) (HRWDME)
- M.S. in Communication Disorders (p. 81) (CDISMS)
- M.S. in Counseling (p. 87) (CNSLMS)
- M.S. in Rehabilitation (p. 163) (RHABMS)
- Ed.D. in Adult and Lifelong Learning (p. 52) (ADLLED)
- Ed.D. in Higher Education (p. 119) (HIEDED)
- Ed.D. in Human Resource and Workforce Development Education (p. 123) (HRWDDED)
- Ph.D. in Counselor Education (p. 87) (CNEDPH)
- Ph.D. in Educational Statistics and Research Methods (p. 99) (ESRMPH)
- Ph.D. in Rehabilitation (p. 163) (RHABPH)
- Graduate Certificates (non-degree) in the following:
  - Educational Measurement (p. 99) (EDMEMC)
  - Educational Program Evaluation (p. 99) (EDEVMC)
  - Educational Psychology (p. 99) (EDPSMC)
  - Educational Statistics and Research Methods (p. 99) (EDSTMC)

School of Social Work (SCWK)
- M.S.W. in Social Work (p. 167) (SCWKMS)
- See also the J.D./M.S.W. dual degree (p. 168) program

Department of Sociology & Criminal Justice (SOCI)
- M.A. in Sociology (p. 169) (SOCIMA)

Department of Supply Chain Management
- Ph.D. in Business Administration (p. 175) (BADMPH)

Department of Theatre (THTR)
- M.F.A. in Theatre (p. 177) (THTRMF)

Department of World Languages, Literatures and Cultures (WLLC)
- M.A. in World Languages (p. 178) (MLANMA)
- M.A. in Spanish (p. 178) (SPANMA)

University of Arkansas Clinton School of Public Service (UACS)
- M.P.S. in Public Service (p. 80) (UACSMP)
- See also the M.B.A./M.P.S. dual degree (p. 69) program

The following master’s programs and specialist fields of study are offered by the Graduate School and the Graduate School of Business at the University of Arkansas:
- Accounting (p. 49), M.Acc. (ACCTMA)
- Adult and Lifelong Learning (p. 52), M.Ed. (ADLLME)
- Agricultural and Extension Education (p. 56), M.S. (AEEDMS)
- Agricultural Economics (p. 54), M.S. (AGECMS)
- Agricultural, Food and Life Sciences (p. 57), M.S. (AFLSMS)
- Animal Science (p. 58), M.S. (ANSCMS)
- Anthropology (p. 59), M.A. (ANTHMA)
- Art (p. 61), M.F.A. (ARTMA)
- Athletic Training (p. 117), M.A.T. (ATTRA)
- Biological Engineering (p. 65), M.S.B.E. (BENGMS)
- Biology (p. 64), M.S. (BIOLMS)
- Biomedical Engineering (p. 67), M.S.B.M.E. (BMEGMS)
- Career and Technical Education (p. 73), M.Ed. (CATEME)
- Cell and Molecular Biology (p. 73), M.S. (CEMBMS)
• Chemical Engineering (p. 75), M.S.Ch.E. (CHEGMS)
• Chemistry (p. 77), M.S. (CHEMMS)
• Childhood Education (p. 78), M.A.T. (CHEDMA)
• Civil Engineering (p. 79), M.S.C.E. (CVEGMS)
• Communication (p. 80), M.A. (COMMA)
• Communication Disorders (p. 81), M.S. (CDISMS)
• Comparative Literature and Cultural Studies (p. 83), M.A. (CLCSMA)
• Computer Science (p. 85), M.S. (CSCEMS)
• Computer Engineering (p. 85), MS.Cmp.E. (CENGMS)
• Counseling (p. 87), M.S. (CNSLMS)
• Creative Writing (p. 89), M.F.A. (CRWRMF)
• Crop, Soil and Environmental Sciences (p. 90), M.S. (CSESMS)
• Curriculum and Instruction (p. 91), M.Ed. (CIEDME)
• Curriculum & Instruction (p. 91), Ed.S. (CIEDES)
• Economics (p. 94), M.A. (ECONMA)
• Educational Leadership (p. 97), M.Ed. (EDLEME)
• Educational Leadership (p. 97), Ed.S. (EDLEES)
• Educational Technology (p. 101), M.Ed. (ETECME)
• Electrical Engineering (p. 102), M.S.E.E. (ELEGMS)
• Engineering (p. 103), M.S.E. (ENGRE)
• English (p. 104), M.A. (ENGLMA)
• Entomology (p. 107), M.S. (ENTOMS)
• Environmental Engineering (p. 110), M.S.En.E. (ENEGRMS)
• Food Safety (p. 57), M.S. (FDFSMS)
• Food Science (p. 114), M.S. (FDSCMS)
• French (p. 178), M.A. (FRENMA)
• Geography (p. 115), M.S. (GEOGMS)
• Geology (p. 115), M.S. (GEOLMS)
• German (p. 178), M.A. (GERMMA)
• Higher Education (p. 119), M.Ed. (HIEDED)
• History (p. 121), M.A. (HISTMA)
• Horticulture (p. 122), M.S. (HORTMS)
• Human Environmental Science (p. 123), M.S. (HESCMS)
• Human Resource and Workforce Development Education (p. 123), M.Ed. (HRWDME)
• Industrial Engineering (p. 125), M.S.I.E. (INEGMS)
• Information Systems (p. 126), M.I.S. (INSYMI)
• Journalism (p. 130), M.A. (JOURMA)
• Kinesiology (p. 131), M.S. (KINSMS)
• Mathematics (p. 134), M.S. (MATHMS)
• Mechanical Engineering (p. 136), M.S.M.E. (MEEGMS)
• Microelectronics-Photonics (p. 137), M.S. (MEPHMS)
• Music (p. 141), M.M. (MUSCM)
• Nursing (p. 145), M.S.N. (NURSMS)
• Operations Management (p. 150), M.S.O.M (OPMGMS)
• Philosophy (p. 151), M.A. (PHILMA)
• Physical Education (p. 152), M.Ed. (PHEDME)
• Physics (p. 152), M.A. (PHYSMA)
• Physics (p. 152), M.S. (PHYSMS)
• Plant Pathology (p. 154), M.S. (PLPAMS)
• Political Science (p. 156), M.A. (PLSCMA)
• J.D./M.A. dual degree (p. 157), Political Science Program
• Public Administration (p. 160), M.P.A. (PADMMP)
• J.D./M.P.A. dual degree (p. 161), Public Administration Program
• Public Service (p. 80), M.P.S. (UACSMP)
• Poultry Science (p. 157), M.S. (POSCMS)
• Psychology (p. 158), M.A. (PSYCM)
• Recreation and Sport Management (p. 162), M.Ed. (RECRRM)
• Rehabilitation (p. 163), M.S. (RHBAMS)
• Secondary Education (p. 164), M.A.T. (SEEDMA)
• Secondary Mathematics (p. 134), M.A. (SMTHMA)
• Social Work (p. 167), M.S.W. (SCWKMS)
• J.D./M.S.W. dual degree (p. 168), Social Work Program
• Sociology (p. 169), M.A. (SOCIMA)
• Space and Planetary Sciences (p. 170), M.S. (SPACMS)
• Spanish (p. 178), M.A. (SPANMA)
• Special Education (p. 172), M.Ed. (SPEDME)
• Statistics (p. 173), M.S. (STATMS)
• Teaching Education to Speakers of Other Languages (p. 177), TESLME
• Theatre (p. 177), M.F.A. (THTRMF)

The following doctoral programs are offered by the Graduate School and the Graduate School of Business at the University of Arkansas:

**Department of Accounting**  
• Ph.D. in Business Administration (p. 49) (ACCTPH)

**Department of Animal Science**  
• Ph.D. in Animal Science (p. 58) (ANSCPH)

**Department of Anthropology**  
• Ph.D. in Anthropology (p. 59) (ANTPH)

**Department of Biological & Agricultural Engineering (BAEG)**  
• Ph.D. in Engineering (p. 65) (BENGPH)

**Department of Biological Sciences (BISC)**  
• Ph.D. in Biology (p. 64) (BIOLPH)

**Department of Biomedical Engineering (BMEG)**  
• Ph.D. in Engineering (p. 67) (BMEGPH)

**Graduate School of Business**  
• Ph.D. in Business Administration (p. 69)
• Ph.D. in Economics (p. 94)

**Department of Chemical Engineering (CHEG)**  
• Ph.D. in Chemical Engineering (p. 75) (CHEGPH)

**Department of Chemistry & Biochemistry (CHBC)**  
• Ph.D. in Chemistry (p. 77) (CHEMHP)

**Department of Civil Engineering (CVEG)**  
• Ph.D. in Engineering (p. 79) (CVEGPH)
Department of Computer Science & Computer Engineering (CSCE)
• Ph.D. in Computer Science (p. 85) (CSCEPH)
• Ph.D. in Engineering (p. 85) (CENGPH)

Department of Crop, Soil & Environmental Sciences (CSES)
• Ph.D. in Crop, Soil & Environmental Sciences (p. 90) (CSESPH)

Department of Curriculum & Instruction (CIED)
• Ed.D. in Educational Leadership (p. 97) (EDLEED)
• Ph.D. in Curriculum & Instruction (p. 91) (CIEDPH)

Department of Economics (ECON)
• Ph.D. in Economics (p. 94) (ECONPH)

Program in Educational Statistics & Research Methods (ESRM)
• Ph.D. in Educational Statistics & Research Methods (p. 99) (ESRMPH)

Department of Education Reform (EDRE)
• Ph.D. in Education Policy (p. 96) (EDPOPH)

Department of Electrical Engineering (ELEG)
• Ph.D. in Electrical Engineering (p. 102) (ELEGPH)

College of Engineering (ENGR)
• Ph.D. in Engineering (p. 103) (ENGRPH)

Department of English (ENGL)
• Ph.D. in English (p. 104) (ENGLPH)

Department of Entomology (ENTO)
• Ph.D. in Entomology (p. 107) (ENTOPH)

Department of Finance (FINN)
• Ph.D. in Business Administration (p. 112) (BADMPH)

Department of Food Science (FDSC)
• Ph.D. in Food Science (p. 114) (FDSCPH)

Department of Geosciences (GEOS)
• Ph.D. in Geosciences (p. 115) (GEOSPH)

Department of Health, Human Performance and Recreation (HHPR)
• Ed.D. in Recreational Sports Administration (p. 162) (RECRED)
• Ph.D. in Community Health Promotion (p. 82) (CHLPPH)
• Ph.D. in Health, Sport and Exercise Science (p. 118) (HSEHPH)
• Ph.D. in Kinesiology (p. 131) (KINSPH)

Department of History (HIST)
• Ph.D. in History (p. 121) (HISTPH)

Department of Industrial Engineering (INEG)
• Ph.D. in Engineering (p. 125) (INEGPH)

Interdepartmental Degree Program
• Ph.D. in Food Science (p. 114) (ANSC, FDSC, HESC, HORT)

Interdisciplinary Studies
• Ph.D. in Cell and Molecular Biology (p. 73) (CEMBPH)

• Ph.D. in Comparative Literature and Cultural Studies (p. 83) (CLCSPH)
• Ph.D. in Environmental Dynamics (p. 109) (ENDYPH)
• Ph.D. in Microelectronics-Photonics (p. 137) (MEPHPH)
• Ph.D. in Plant Science (p. 155) (PTSCPH)
• Ph.D. in Public Policy (p. 162) (PUBPPH)
• Ph.D. in Space & Planetary Sciences (p. 170) (SPACPH)

Department of Information Systems (ISYS)
• Ph.D. in Business Administration (p. 126) (ISYSPH)

Department of Management (MGMT)
• Ph.D. in Business Administration (p. 133) (MKTGPH)

Department of Marketing (MKTG)
• Ph.D. in Business Administration (p. 133) (MKTGPH)

Department of Mathematical Sciences (MASC)
• Ph.D. in Mathematics (p. 134) (MATHPH)

Department of Mechanical Engineering (MEEG)
• Ph.D. in Engineering (p. 136) (MEEGPH)

Eleanor Mann School of Nursing
• D.N.P. in Nursing (p. 145) (NURSDP)

Department of Philosophy (PHIL)
• Ph.D. in Philosophy (p. 151) (PHILPH)

Department of Physics (PHYS)
• Ph.D. in Physics (p. 152) (PHYSPH)

Department of Political Science (PLSC)
• J.D./M.A. Program (p. 157), dual degree
• J.D./M.P.A. Program (p. 157), dual degree

Department of Poultry Science (POSC)
• Ph.D. in Poultry Science (p. 157) (POSCPH)

Department of Psychological Science (PSYC)
• Ph.D. in Psychology (p. 158) (PSYCYPH)

Department of Rehabilitation, Human Resources, & Communication Disorders (RHRC)
• Ed.D. in Adult and Lifelong Learning (p. 52) (ADLLED)
• Ed.D. in Higher Education (p. 119) (HEDED)
• Ed.D. in Human Resource & Workforce Development Education (p. 123) (HRWDED)
• Ph.D. in Counseling Education (p. 87) (CNEDPH)
• Ph.D. in Educational Statistics and Research Methods (p. 99) (ESRMPH)
• Ph.D. in Rehabilitation (p. 163) (RHABPH)

Department of Supply Chain Management
• Ph.D. in Business Administration (p. 175) (BADMPH)

The following graduate certificate programs are offered by the University of Arkansas Graduate School:

Graduate School of Business
• Business (p. 69)
College of Agricultural, Food and Life Sciences
- Bioenergy and Sustainability Technology (p. 57) (BSTCGC)

Department of Curriculum & Instruction (CIED)
- Applied Behavior Analysis (p. 172) (APBAMC)
- Arkansas Curriculum/Program Administrator (p. 97) (ACPAMC)
- Autism Spectrum Disorders (p. 172) (AUTSMC)
- Building-Level Administration (p. 97) (PSBLMC)
- District-Level Administration (p. 97) (PSDLMC)
- STEM Education for Early Childhood (p. 78) (K-4)

Department of English
- Technical Writing and Public Rhetorics (p. 104) (TWRHGC)

Program in Educational Statistics & Research Methods (ESRM)
- Educational Measurement (p. 99) (EDMEMC)
- Educational Program Evaluation (p. 99) (EDEVMC)
- Educational Psychology (p. 99) (EDPSMC)
- Educational Statistics & Research Methods (p. 99) (EDSTMC)

Department of Geosciences
- Graduate Certification in Geospatial Technologies (p. 115) (GISTGC)

Interdisciplinary Studies
- African and African American Studies (p. 53) (AASTGC)
- Cross-Sector Alliances (p. 91) (CSALGC)
- Preparing for the Professoriate (p. 158) (PROFGC)
- Sustainability (p. 176) (SUSTGC)

Department of Music (MUSC)
- Advanced Instrumental Performance (p. 141) (non-degree) (MUSCGC)

School of Law
- Criminal Law (http://catalog.uark.edu/lawcatalog/criminallawcertificate) (CRLWGC)

Accounting (ACCT)

Faculty
T. J. Atwood, Associate Professor
Ken Bills, Assistant Professor
Cory A. Cassell, Associate Professor
Mandy French, Instructor
William Karl Greenhaw, Instructor
Susan Jurney, Clinical Assistant Professor
Sami Keskek, Assistant Professor
Charles Joseph Leflar, Clinical Professor, BKD Lectureship in Accounting
John Martel Norwood, Professor, Nolan E. Williams Lecturer in Accounting
Gary F. Peters, Professor, Doris M. Cook Chair in Accounting
Karen V. Pincus, Professor, Doyle Z. and Maynette Derr Williams Chair in Professional Accounting

Vernon J. Richardson, Distinguished Professor, S. Robson Walton Chair in Accounting
Jonathan Shipman, Assistant Professor
Katie Terrell, Instructor

Vernon Richardson
Department Chair and S. Robson Walton Chair in Accounting
447 Walton College of Business
479-575-4051

Cory Cassell
Ph.D. Program Director
456 Walton College of Business
479-575-4051

Gary Peters
M.Acc. Program Director
447 Walton College of Business
479-575-4051

Normal 0 false false false EN-US X-NONE X-NONE /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Table Normal"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-style-parent:""; mso-padding-alt:0in 5.4pt 0in 5.4pt; mso-para-margin:0in; mso-para-margin-bottom:.0001pt; mso-pagination:widow-orphan; font-size:10.0pt; font-family:"Times New Roman";"serif";} Normal 0 false false false EN-US X-NONE X-NONE /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Table Normal"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-style-parent:""; mso-padding-alt:0in 5.4pt 0in 5.4pt; mso-para-margin:0in; mso-para-margin-bottom:.0001pt; mso-pagination:widow-orphan; font-size:10.0pt; font-family:"Times New Roman";"serif";} Normal 0 false false false EN-US X-NONE X-NONE /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Table Normal"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-style-parent:""; mso-padding-alt:0in 5.4pt 0in 5.4pt; mso-para-margin:0in; mso-para-margin-bottom:.0001pt; mso-pagination:widow-orphan; font-size:10.0pt; font-family:"Times New Roman";"serif";} Normal 0 false false false EN-US X-NONE X-NONE /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Table Normal"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-style-parent:""; mso-padding-alt:0in 5.4pt 0in 5.4pt; mso-para-margin:0in; mso-para-margin-bottom:.0001pt; mso-pagination:widow-orphan; font-size:10.0pt; font-family:"Times New Roman";"serif";}

Degrees Conferred:
Ph.D. in Business Administration (BADM)
Master of Accountancy

The Master of Accountancy (M.Acc.) program is accredited by the AACSB International – The Association to Advance Collegiate Schools of Business. AACSB accreditation assures quality and promotes excellence and continuous improvement in undergraduate and graduate education for business administration and accounting.

The Master of Accountancy program provides rigorous preparation at the graduate level for students to achieve success in their chosen career path in public practice, industry, or government. Students entering the program are expected to have an undergraduate degree or significant background in accounting. Building on the knowledge developed as an undergraduate, the M.Acc. courses broaden, extend, and integrate the student’s knowledge. Students completing the M.Acc. program develop the following skills: 1) Research: Students will be able to access, assess, and apply the appropriate standards, regulations, or other information needed to address accounting and business problems. 2) Risk Analysis: Students will understand business risk, how it affects decisions and how to create strategies to mitigate risk. 3) Problem Solving and Decision Making: Students will be able to identify problems, consider alternative
solutions, analyze the pros and cons of each alternative and support their conclusions. The M.Acc. program is a full-time program designed to be completed in one year.

Admission Requirements: The M.Acc. program is open to students who have an acceptable undergraduate grade-point average, an acceptable Graduate Management Admission Test (GMAT) score, and (international students only) an acceptable TOEFL or IELTS score. Students entering the program are expected to have completed undergraduate coursework in statistics, mathematics, information systems, accounting, and business. Prior courses must either have been successfully completed within the five years prior to entry to the M.Acc. program, or the student must provide other evidence of current knowledge in these areas. Otherwise, applicants may be required to repeat or complete selected courses, in addition to their degree coursework.

Requirements for the Master of Accountancy Degree: Students with appropriate backgrounds in business administration and economics and with an undergraduate concentration in accounting will be required to complete 30 semester hours of course work beyond the baccalaureate degree.[GFP1]

Ordinarily, students must be enrolled for a minimum of 12 hours during consecutive fall/spring semesters.

Eighteen semester hours of accounting are required, 12 hours of which are specified:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 5413</td>
<td>Advanced Financial Accounting (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 5953</td>
<td>Auditing Standards (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 5463</td>
<td>Financial Statement Analysis (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 5873</td>
<td>Advanced Taxation (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours: 12**

A minimum of six semester hours of the student’s program must be non-accounting electives. Six semester hours may be either accounting or non-accounting electives.

To ensure that students acquire the skills necessary for career success, the M.Acc program strongly encourages all students to obtain additional training directly related to the M.Acc program prior to graduation. Students are strongly encouraged, but not required, to complete an accounting internship for academic credit, ACCT 535V. The M.Acc program considers this training an integral part of the curriculum that allows for the practical application of the theoretical principles taught in accounting courses.

A student may transfer to the M.Acc. program not more than six hours of graduate level credit from an AACSB-accredited graduate program, provided that each course has a grade of “B” or better, and the courses are acceptable to the departmental M.Acc. committee. Students contemplating transfer of credit should consult in advance with both the M.Acc. Adviser and the Graduate School of Business.

A cumulative grade-point average of 3.00 is required on 1) graduate work taken for the degree and 2) all accounting courses (both undergraduate and graduate) taken for the degree. At least 75 percent of the graduate credit hours submitted for the degree must be “A” or “B” grades. The M.Acc. degree program does not require a thesis. Successful completion of a Master of Accountancy Degree from the University of Arkansas will qualify a student to take relevant professional examinations.

For further information, contact the Graduate School of Business: gsb@walton.uark.edu.

**B.S.B.A./M.Acc.: Integrated Program**

The integrated program to the Master of Accountancy is a five-year program of undergraduate and graduate coursework that allows outstanding students to earn the B.S.B.A. and the Master of Accountancy (M.Acc.) degrees at the same time. The professional curriculum, which usually begins in the student’s junior year, includes specially designed accounting courses taught in relatively small classes by full-time faculty members. Students accepted into the integrated degree program may concurrently enroll in undergraduate and graduate level courses.

Because M.Acc. graduates are expected to become leaders in the accounting profession, highly motivated students with the personal qualities and intellectual capacity to establish successful careers in public accounting, industry, not-for-profit organizations, and higher education are encouraged to apply.

**Admission**

Students are admitted to the integrated program according to the following requirements. Admission is granted only for the fall semester; February 15 of the Junior year is the application deadline for those who wish to begin the integrated program the following fall. Students interested in this program must have completed 90 credit hours of study towards the baccalaureate degree (including ACCT 2013, ACCT 3723 and ACCT 3843) by the February 15 deadline.

Acceptance into the integrated program is based upon the discretion of the admissions committee. The committee considers the overall quality of the applications, including the overall grade point average, the grades in ACCT 2013, ACCT 3723 and ACCT 3843, and the Graduate Management Admission Test (GMAT), as well as other relevant examples of academic ability and leadership. To receive serious consideration by the admissions committee, a student should have a minimum GPA of 3.0 within the applicant’s overall university and accounting coursework. Due to the demand for seats in the program, the admissions committee selectively restricts admission into the program based upon the availability of instructional resources. Students must complete at least two long-session semesters in residence in the M.Acc. program.

Transfer students will be handled on a case-by-case basis.

**Satisfactory Progress**

Students are expected to make continuous progress toward the degree by completing required accounting coursework each semester. Students who fail to meet the requirements for the M.Acc. program must choose another major of study or finalize their B.S.B.A. in Accounting. Students will be notified before this action is taken and should meet with an academic advisor in the Undergraduate Programs Office upon notification.

**Probation**

A student is placed on probation if his or her grade point average in core undergraduate accounting courses falls below 3.00. Except with the consent of the M.Acc. Program Director a student on probation may not concurrently enroll in undergraduate and graduate level courses.

**Graduation**

To receive an integrated B.S.B.A./M.Acc. degree, a student must have a grade point average of at least 3.00 in all coursework taken as part of the
minimum thirty hour M.Acc. degree. He or she must also have a grade point average in graduate accounting coursework of at least 3.00.

Degree Requirements
The requirements of B.S.B.A./M.Acc. Integrated program are:

1. Undergraduate coursework
   a. Complete the requirements for the B.S.B.A. degree requirements and Accounting Major Requirements detailed above.
   b. Students are strongly encouraged, but not required, to participate in an accounting internship, ACCT 310V.

2. Graduate coursework
Students with appropriate backgrounds in business administration and economics and with an undergraduate concentration in accounting will be required to complete 30 semester hours of course work beyond the baccalaureate degree, at least 21 semester hours of which must be in courses reserved exclusively for graduate students.

All students must be enrolled for a minimum of 12 hours during consecutive fall/spring semesters. The student must be in residence a minimum of 24 weeks (see residency requirements of the Master of Arts/Master of Science).

A minimum of 18 semester hours of accounting are required, 12 hours of which are specified:

ACCT 5413 Advanced Financial Accounting (Sp) 3
ACCT 5433 Fraud Prevention and Detection (Sp) 3
ACCT 5953 Auditing Standards (Fa) 3
ACCT 5873 Advanced Taxation (Fa) 3

A minimum of six semester hours of the student's graduate program must be non-accounting electives.

The M.Acc. degree program does not require a thesis. Successful completion of integrated B.S.B.A./M.Acc program from the University of Arkansas will qualify a student to take relevant professional examinations.

For further information, write to the M.Acc. Adviser, Department of Accounting, Walton College of Business, University of Arkansas, Fayetteville, AR 72701 or contact the Graduate School of Business at gsb@walton.uark.edu.

Ph.D. in Business Administration, Accounting Concentration Program Structure
The doctoral program in accounting consists of the following elements: course work, two summer papers, a comprehensive examination, and a dissertation. The latter involves an oral defense of both the dissertation proposal as well as the final dissertation. It is anticipated that all required course work, including accounting seminars, tool courses, and supporting courses, will be completed in two to two and a half years (a total of 42 hours excluding colloquium and dissertation credit). Students must recognize a joint responsibility in their preparation to perform research and, in some cases, may wish to take courses beyond those specified to strengthen their skills and abilities in fields that will contribute to successful completion of their dissertation.

The seminars will be offered in alternating years, A and B, respectively.

Year A:
- Seminar I covers research methods and research design, with an emphasis on disclosure choices and consequences.
- Seminar II presents an overview of accounting research, focusing on auditing and corporate governance.

Year B:
- Seminars III and IV present and overview of accounting research, and emphasize capital markets research and selected research topics respectively.

After these four seminars, students are able to select an area of specialization. The expectation is that students take two specialized seminars. For example, students could take seminars offered by the Finance Department.

Research Tools
Required Courses:
ECON 5233 Mathematics for Economic Analysis (Su) 3
ECON 6613 Econometrics I (Fa) 3
ECON 6623 Econometrics II (Sp) 3
ECON 5533 Microeconomic Theory I (Fa) 3

Elective Courses:
Select at least two courses from the following: 6
ECON 6233 Microeconomic Theory II (Sp)
ECON 6633 Econometrics III (Sp)
ECON 6713 Industrial Organization I (Fa)
ISYS 5623 Multivariate Analysis (Sp)
ISYS 5613 Business Applications of Nonparametric Techniques (Sp)
ISYS 5723 Advanced Multivariate Analysis (Irregular)
MKTG 6433 Seminar in Research Methods (Irregular)
STAT 5313 Regression Analysis (Sp)

Total Hours 18

Supporting Courses
Nine hours of supporting courses are selected by the student in consultation with the accounting doctoral program coordinator. Generally such courses should be concentrated in a specific field in business or outside business (e.g. psychology, sociology, etc.) to meet the objectives of the student's program. All supporting courses taken must be completed with a grade of "B" or higher prior to sitting for the written comprehensive examination in Accounting.

Research Requirement
The Accounting Doctoral Program emphasizes the development of strong analytic skills and the mastery of sophisticated research methods. The program involves doctoral students in research at the beginning of the program. The intent of the first year research project is for students to explore an area of scholarship and to develop skills to conduct original research within a team framework. During the first and second years, under the direction of a qualified faculty member or members, the student identifies an area of interest that would lead to a summer working paper.

The summer project is a concerted scholarly effort with faculty providing broad, but detailed formal guidance. The goal is to produce a paper
publishable in a highly respected, academic journal, which may be co-authored by the doctoral student and the faculty member or members.

Requirements for the research teams include highly motivated students, strong faculty involvement, structured projects, commitment to deadlines, commitment to goals, and continuous project review.

**Comprehensive Examination**

After satisfactory completion of all required course work, each Ph.D. student must pass a written comprehensive examination prepared by the Doctoral Program Committee of the Department of Accounting and administered on a date selected by the Doctoral Program Committee. Each student is expected to take the written comprehensive exam within 36 months after starting coursework. If the written comprehensive examination is failed, it should be retaken within 6 months after the failure on a date selected by the Doctoral Program Committee of the Department of Accounting. If the written comprehensive is failed a second time, and if the Doctoral Program Committee allows a third sitting, the examination must be retaken within 6 months after the second failure. Failure to satisfactorily complete the written comprehensive examination results in termination from the program.

**Summer Paper**

Students are required to complete summer papers during the first and second years of their residence. The summer papers represent an opportunity to practice the development and execution of a complete research project under the guidance and tutelage of an experienced faculty member or members. They constitute the final “practice run” before embarking on the dissertation. In addition, the summer papers provide an opportunity to explore a specific area of accounting as a potential source for dissertation research. A final benefit of the summer papers is the development of manuscripts that are expected to yield publications by the time the student completes the program or afterward.

**Adult and Lifelong Learning (ADLL)**

**Faculty**

- **Kenda Shea Grover**, Assistant Professor
- **Kit Kacirek**, Associate Professor
- **Kevin Roessger**, Assistant Professor

Kenda Grover  
ADLL M.Ed. Program Coordinator  
104 Graduate Education Building  
479-575-2675  
E-mail: kgrover@uark.edu

Kit Kacirek  
ADLL Ed.D. Program Coordinator  
120 Graduate Education Building  
479-575-4875  
E-mail: kitk@uark.edu

Program website: http://adll.uark.edu

**Degrees Conferred:**

M.Ed., Ed.D. (ADLL)

The Adult and Lifelong Learning curriculum is designed to prepare scholars/practitioners for instructional leadership roles. Coursework focuses on the assessment, design, and implementation of educational programs for adult learners across diverse developmental stages. Adult and Lifelong Learning scholars/practitioners work with specialized groups of adults including those with less than secondary (high school equivalent) education, adult learners in postsecondary education, participants in educational programs offered by community and nonprofit agencies, and participants in professional education programs.

Graduates of the degrees in Adult and Lifelong Learning are employed as instructors, coordinators, and directors of adult education and lifelong learning programs within adult literacy and general education, leisure learning, community and nonprofit organizations, extension education, military education, postsecondary education, and continuing professional education programs.

**Prerequisites for Acceptance to the Master of Education Degree Program:** In addition to submitting an application for admission and an application fee to the Graduate School, all students seeking admission to the M.Ed. program in Adult and Lifelong Learning must submit (1) a program application that is located on the ADLL website (http://adll.uark.edu), and (2) a current resume.

**Requirements for the Master of Education (M.Ed.) Degree:** (Minimum 33 hours)

- Completion of 3 semester hours in the area of research and statistics  
  3
- Completion of 15 semester hours of Adult Education Core  
  15
- Completion of 3 hours of Capstone Course  
  3

Choose from among:

- **ADLL 5163** Managing Change in Adult and Lifelong Learning (Su, Fa)
- **ADLL 5173** Program Planning (Su)
- **ADLL 5183** Technology and Innovation in Adult Learning (Su)
- **ADLL 5193** Seminar in Adult and Lifelong Learning (Sp, Su)
- **ADLL 5213** Adult and Lifelong Learning Internship (Sp, Fa)

A cumulative grade point average of at least 3.00 on all course work for the degree. No grades below "C" will be accepted toward this degree.

Satisfactory performance on a written comprehensive examination in ADLL 5223 Adult and Lifelong Learning Applied Project, the capstone course for the degree program.

**Total Hours** 33

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).
Prerequisites for Acceptance to the Doctor of Education Degree Program: The Ed.D. in Adult and Lifelong Learning is a cohort-based program; applications are accepted approximately four months prior to the beginning of each cohort cycle. Cohort cycles begin approximately every two years. The anticipated timeline for program cohorts and application deadlines will be posted on the program’s website (http://adll.uark.edu).

Students seeking admission to the Ed.D. program in Adult and Lifelong Learning must complete procedures that include (1) prior admission to the University of Arkansas Graduate School, which requires a separate application process; (2) a completed Adult and Lifelong Learning Application for Admission form; (3) a current resume or vitae; (4) an autobiographical sketch; (5) a Graduate Record Examination (GRE) composite scores (verbal, quantitative, and analytical writing) that demonstrate the student’s ability to effectively perform academically at the doctoral level (test scores usually no lower than the 50th percentile); and (5) a personal interview with members of the Adult and Lifelong Learning faculty.

Adult and Lifelong Learning faculty consider several factors when reviewing applicants for admission to the program, including professional experience related to adult and lifelong learning, demonstration of interest in a career in adult education and lifelong learning, grade point average on all graduate work completed, and Graduate Record Examination (GRE) composite scores (verbal, quantitative, and analytical writing) that demonstrate the student’s ability to effectively perform academically at the doctoral level (test scores usually no lower than the 50th percentile).

Requirements for the Doctor of Education Degree: (Minimum 96 hours)

Completion of 15 semester hours in the area of research and statistics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ESRM 6043</td>
<td>Educational Statistics and Data Processing (Sp, Su, Fa)</td>
</tr>
<tr>
<td>ADLL 6413</td>
<td>Quantitative Reasoning in Adult and Lifelong Learning (Irregular)</td>
</tr>
<tr>
<td>or ESRM 6623</td>
<td>Techniques of Research in Education (Sp, Su)</td>
</tr>
<tr>
<td>ADLL 6423</td>
<td>Qualitative Reasoning in Adult and Lifelong Learning (Irregular)</td>
</tr>
<tr>
<td>or ESRM 6533</td>
<td>Qualitative Research (Sp, Fa)</td>
</tr>
<tr>
<td>ADLL 6433</td>
<td>Program Evaluation (Irregular)</td>
</tr>
<tr>
<td>or ESRM 6613</td>
<td>Evaluation of Policies, Programs, and Projects (Fa)</td>
</tr>
<tr>
<td>ADLL 6443</td>
<td>Adult and Lifelong Learning Dissertation Seminar (Irregular)</td>
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Completion of 21 semester hours of Adult and Lifelong Learning Core

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<tr>
<td>ADLL 6113</td>
<td>Advanced Adult Learning Theory (Irregular)</td>
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<tr>
<td>ADLL 6123</td>
<td>Leadership and Ethics in Adult and Lifelong Learning (Irregular)</td>
</tr>
<tr>
<td>ADLL 6133</td>
<td>Analysis of International Adult and Lifelong Programs (Irregular)</td>
</tr>
<tr>
<td>ADLL 6143</td>
<td>Instructional Adaptation and Innovation in Adult and Lifelong Learning (Irregular)</td>
</tr>
<tr>
<td>ADLL 6153</td>
<td>Policy and Public Governance of Adult and Lifelong Learning Programs (Irregular)</td>
</tr>
<tr>
<td>ADLL 6163</td>
<td>Adult Development and Psychology (Irregular)</td>
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Completion of Adult and Lifelong Learning Electives (as needed to meet degree hour requirements)

<table>
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<th>Course Title</th>
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<tbody>
<tr>
<td>ADLL 6173</td>
<td>Current Issues (Irregular)</td>
</tr>
<tr>
<td>ADLL 6313</td>
<td>Independent Study (Irregular)</td>
</tr>
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</table>

Completion of 18 semester hours of Dissertation Research

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ADLL 700V</td>
<td>Doctoral Dissertation (Sp, Su, Fa)</td>
</tr>
</tbody>
</table>

A minimum grade point average of 3.25 on all course work presented as part of the degree program.

Satisfactory completion of all requirements governing the candidacy examination, the dissertation, and the final oral dissertation defense.

1 Students who do not hold a master’s degree in adult education may select applicable electives from course work in the M.Ed. Adult and Lifelong Learning program or may take courses from related areas of study with adviser consent.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

African and African American Studies

Faculty

Caree A. Banton, Assistant Professor
Todd Cleveland, Assistant Professor
JoAnn D’Alisera, Associate Professor
Pearl Karen Dowe, Associate Professor
Jim Gigantino II, Associate Professor
Brandon Jackson, Assistant Professor
Yvette Murphy-Erby, Professor
Charles F. Robinson II, Professor
Valandra, Assistant Professor
Calvin White Jr., Associate Professor

Pearl K. Dowe
Program Director
230 Memorial Hall
479-575-2872
http://aast.uark.edu

Graduate Certificate offered (non-degree): African and African American Studies

The African and African American Studies program promotes an interdisciplinary approach to the study of the history, culture, and identity of Africans and African Americans. Graduate students may pursue an African and African American Studies Graduate Certificate after making application to the African and African American Studies program and the Graduate School.

Admission Requirements:

The following materials must be submitted to the Director of the AAST Program:

1. Application for Admission to the Certificate Program in African & African American Studies. The form is available from the Program Director and the program’s Web page.
2. Confirmation of admission to the University of Arkansas Graduate School.
3. Complete official transcripts of all undergraduate and graduate work.
4. Three letters of recommendation from former teachers, employers, or supervisors.
5. Statement of purpose describing academic interests and professional goals and how the Graduate Certificate fits into them.
Requirements for Graduate Certificate in African and African American Studies

In order to complete the Graduate Certificate in African & African American Studies, students must complete a total of 15 hours of coursework, which must include AAST 5003 Graduate Seminar in African & African American Studies (Irregular).

The remaining 12 hours of coursework must be approved by the Program Director and adhere to the following stipulations:

• A maximum of 9 of the 12 may come from courses taken in a single department
• At least 9 hours must be from courses numbered 5000 or higher
• A maximum of 3 hours may be earned through AAST 5103 Graduate Readings in African & African American Studies (Irregular)

Possible Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 6853</td>
<td>Seminar in African American Literature and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4093</td>
<td>The History of African Americans and Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4123</td>
<td>Africa and the Trans-Atlantic Slave Trade</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4263</td>
<td>Independence and Africa Today</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4273</td>
<td>Comparative Slavery</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4563</td>
<td>The Old South, 1607-1865</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4573</td>
<td>The New South, 1860 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4823</td>
<td>Black Freedom in the Age of Emancipation</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4953</td>
<td>The History of Sub-Saharan African Women</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 4323</td>
<td>Racial Identity, Politics, and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 4933</td>
<td>African American Political Ideology</td>
<td>3</td>
</tr>
<tr>
<td>THTR 4463</td>
<td>African American Theatre History -- 1950 to Present</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional courses numbered 4000 or higher may be approved by the Program Director for the Graduate Certificate if its subject matter focuses on the study of Africans or African Americans.

Agricultural Economics and Agribusiness (AEAB)

Faculty

Bruce L. Ahrendsen, Professor
Kelly J. Bryant, Extension Associate Professor
Mark J. Cochran, Professor
Bruce Lawrence Dixon, Professor
Harold L. Goodwin Jr., Professor
Steve A. Halbrook, Professor
Quiqiong Huang, Associate Professor
Kent F. Kovacs, Assistant Professor
Jeff A. Luckstead, Assistant Professor
Andrew Malcolm McKenzie, Professor
Wayne P. Miller, Extension Professor
Lawton Lanier Nalley, Associate Professor
Rudy Nayga, Professor, Tyson Endowed Chair in Food Policy Economics

Jennie Sheerin Popp, Professor
Michael P. Popp, Professor
Daniel V. Rainey, Associate Professor
Ronald L. Rainey, Professor
Elizabeth Rebecca Rumley, Research Assistant Professor
Rusty W. Rumley, Research Assistant Professor
Michael R. Thomsen, Professor
Eric J. Wailes, Distinguished Professor, L.C. Carter Endowed Chair in Rice and Soybeans

Steve A. Halbrook
Department Head
217 Agriculture Building
479-575-2256
E-mail: halbrook@uark.edu

Daniel V. Rainey
Adviser of Studies
217 Agriculture Building
479-575-5584
E-mail: rainey@uark.edu

http://agribus.uark.edu

Degree Conferred:

M.S. in Agricultural Economics (AGEC)

Areas of Concentration: Agricultural Economics, Agribusiness, International Agribusiness.

Primary Areas of Faculty Research: Agribusiness, agricultural cooperatives, agricultural finance, agricultural marketing, agricultural outlook, agricultural policy, agricultural production, applied econometrics, delta crops (rice, soybeans, wheat, cotton), economic development, farm management, food policy, food marketing, global marketing, integrated pest management, international trade, managerial economics, market infrastructure and development, natural resource management, product development, production economics, public finance, risk management.

Admission Requirements: All applicants to the graduate program must submit official scores from either the Graduate Record Exam (GRE) or Graduate Management Admission Test (GMAT), although GRE scores are preferred.

Requirements for the Master of Science Degree in Agricultural Economics (Thesis): (Minimum 31 hours.)

Prerequisites to the Thesis Concentration:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 5103</td>
<td>Agricultural Microeconomics (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 24

Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 5003</td>
<td>Graduate Seminar in African &amp; African American</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 15
Prerequisites to the Non-thesis Concentration:

Economics (Agribusiness Concentration, Non-thesis): (Minimum 31 hours)

Requirements for the Master of Science Degree in Agricultural Economics (p. 261).

Students should also be aware of Graduate School requirements with regard to master's degrees.

Take two of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 5403</td>
<td>Quantitative Methods for Agribusiness (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 5613/</td>
<td>Econometrics (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 6613</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGEC 5623</td>
<td>Quantitative Food and Agricultural Policy Analysis (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 600V</td>
<td>Master’s Thesis (Sp, Su, Fa)</td>
<td>6</td>
</tr>
<tr>
<td>AGEC 5011</td>
<td>Seminar (Sp, Fa)</td>
<td>1</td>
</tr>
</tbody>
</table>

Agricultural Economics Electives

Students must take six hours of other graduate courses in Agricultural Economics.

Controlled Electives

Graduate courses in Agricultural Economics

Other graduate courses in the Walton College of Business

Other Requirements

A minimum of 16 hours of Agricultural Economics.

Total Hours 31

Note: Participation in this program includes University of Ghent (Belgium), and University of Arkansas (UA) students. Students may study either semester at the UA campus and the other semester at the University of Ghent in West Europe. Classes for UA students taken at the University of Ghent are in English. The summer may be spent completing an agribusiness internship or special problem, but enrollment remains at the host institution. UA students earn credits in AGEC 502V Special Topics for courses taken at Ghent.

Requirements for the Master of Science Degree in Agricultural Economics (International Agribusiness Concentration, Non-thesis): (Minimum 31 hours)

Students should also be aware of Graduate School requirements with regard to master's degrees.

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 4113</td>
<td>Agricultural Prices and Forecasting (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>or AGEC 4373</td>
<td>Basis Trading: Applied Price Risk Management (Sp, Su)</td>
<td></td>
</tr>
<tr>
<td>or AGEC 5303</td>
<td>Agricultural Marketing Theory (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>or AGEC 5413</td>
<td>Agribusiness Strategy (Sp)</td>
<td></td>
</tr>
<tr>
<td>AGEC 5011</td>
<td>Seminar (Sp, Fa)</td>
<td>1</td>
</tr>
<tr>
<td>AGEC 5103</td>
<td>Agricultural Microeconomics (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 5143</td>
<td>Financial Management in Agriculture (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>or AGEC 4143</td>
<td>Agricultural Finance (Fa)</td>
<td></td>
</tr>
<tr>
<td>or AGEC 4313</td>
<td>Agricultural Business Management (Fa)</td>
<td></td>
</tr>
<tr>
<td>or AGEC 4323</td>
<td>Agribusiness Entrepreneurship (Sp)</td>
<td></td>
</tr>
<tr>
<td>AGEC 5403</td>
<td>Quantitative Methods for Agribusiness (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

Take two of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 4163</td>
<td>Agricultural and Rural Development (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 4613</td>
<td>Political Economy of Agriculture and Food (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 4623</td>
<td>International Agricultural Trade and Commercial Policy (Sp)</td>
<td></td>
</tr>
<tr>
<td>AGEC 5153</td>
<td>The Economics of Public Policy (Sp)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 24

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 5403</td>
<td>Quantitative Methods for Agribusiness (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 5413</td>
<td>Agribusiness Strategy (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 5143</td>
<td>Financial Management in Agriculture (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>or AGEC 4143</td>
<td>Agricultural Finance (Fa)</td>
<td></td>
</tr>
<tr>
<td>or AGEC 4313</td>
<td>Agricultural Business Management (Fa)</td>
<td></td>
</tr>
<tr>
<td>AGEC 5153</td>
<td>The Economics of Public Policy (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>or AGEC 4613</td>
<td>Political Economy of Agriculture and Food (Fa)</td>
<td></td>
</tr>
<tr>
<td>or AGEC 5133</td>
<td>Agricultural and Environmental Resource Economics (Sp)</td>
<td></td>
</tr>
</tbody>
</table>

Take two of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 5303</td>
<td>Agricultural Marketing Theory (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 5011</td>
<td>Seminar (Sp, Fa)</td>
<td>1</td>
</tr>
</tbody>
</table>

Agribusiness Management (University of Ghent Electives)

Select the equivalent of 12 semester hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 502V</td>
<td>Special Topics (Irregular)</td>
<td>1-3</td>
</tr>
<tr>
<td>AGEC 5303</td>
<td>Agricultural Marketing Theory (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 5011</td>
<td>Seminar (Sp, Fa)</td>
<td>1</td>
</tr>
</tbody>
</table>

Sociological Perspectives of Rural Development (3 credits)
AGEC 502V Special Topics (Irregular) 1-3
  Micro-economic Theory and Farm Management (3 credits)
AGEC 502V Special Topics (Irregular) 1-3
  Rural Project Management (3 credits)
AGEC 502V Special Topics (Irregular) 1-3
  Agricultural and Rural Policy (3 credits)
AGEC 502V Special Topics (Irregular) 1-3
  Rural Development and Agriculture (3 credits)
AGEC 502V Special Topics (Irregular) 1-3
  Development Economics (3 credits)
AGEC 502V Special Topics (Irregular) 1-3
  Agricultural Economics of Developing Countries (2 credits)
AGEC 502V Special Topics (Irregular) 1-3
  Advanced Marketing and Agribusiness Management (3 credits)
AGEC 502V Special Topics (Irregular) 1-3
  Applied Rural Economic Research Methods (3 credits)
AGEC 502V Special Topics (Irregular) 1-3
  Applied Statistics (3 credits)
AGEC 502V Special Topics (Irregular) 1-3
  Food Marketing and Consumer Behavior (3 credits)
AGEC 502V Special Topics (Irregular) 1-3
  Scientific Communications on Rural Development (2 credits)
AGEC 502V Special Topics (Irregular) 1-3
  Econometrics (2 credits)
AGEC 502V Special Topics (Irregular) 1-3
  Economics and Management of Natural Resources (2 credits)
AGEC 502V Special Topics (Irregular) 1-3
  The European Union’s International Development (3 credits)

Controlled Electives 3
  AGEC 503V Internship in Agricultural Economics (Sp, Su, Fa)
  Other graduate courses in Agricultural Economics
  Graduate courses in the Walton College of Business
  Other graduate courses

Other Requirements
  Maximum of 9 hours at 4000 level
  Minimum of 16 hours of Agricultural Economics
  AGEC 502V Special Topics (Irregular) 1-3

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Requirements for the Master of Science Degree in Agricultural Economics (U.S.-E.U. Atlantis Double Degree in Agricultural Economics and Rural Development Concentration): Thesis (Minimum 31 hours)

Participation in this two-year program includes U.S. students from the University of Arkansas and E.U. students from a consortium of five universities in Europe (University of Ghent, Ghent, Belgium; Humboldt University, Berlin, Germany; National Institute of Advanced Training and Research in Food and Agronomy, Rennes, France; University of Pisa, Pisa, Italy; and the Slovak University of Agriculture, Nitra, Slovakia). The program includes five academic terms (four semesters and one summer). U.S. students enroll for at least two terms at the University of Arkansas and for at least two terms at two E.U. universities in the European consortium. E.U. students enroll for at least two terms at two E.U. universities in the European consortium and at least two terms at the University of Arkansas. Study in both the U.S. and E.U. includes three semesters of graduate coursework, completion of a case study or internship during the summer, and one semester of joint thesis research supervised by U.S. and E.U. faculty. All coursework is in English in both the U.S. and E.U. Class enrollment for all students remains at their home university. University of Arkansas students earn credit for AGEC 502V Special Topics for courses taken at E.U. universities. Upon successful completion of the program, students receive an M.S. degree in agricultural economics from the University of Arkansas, and an M.S. degree in rural development from the consortium of E.U. universities.

Prerequisites to the Atlantis Concentration:

Six hours of mathematics (college algebra or above) 6
Three hours of statistics 3
Three hours of economic principles 3
Six hours of courses in agricultural economics, rural development, social sciences, or agriculture and agribusiness-related courses. 6

Total Hours 18

Core Requirements

Coursework from each of the following areas:
  Quantitative Analysis or Research Methods 3
  Management or Marketing 3
  Policy or Analysis of Public Sector Issues 3
  Six hours of master’s thesis 6
  AGEC 5011 Seminar (Sp, Fa) 1

Controlled Electives 15

Other graduate courses in Agricultural Economics
Other graduate courses approved by the student’s advisory committee

Other Requirements

Minimum of 16 hours in Agricultural Economics
Maximum of 15 hours of transfer courses from an inventory of classes offered in the Atlantis consortium of EU universities to satisfy core requirements and/or controlled electives.

All agricultural economics graduate students are required to attend AGEC 5011 Seminar (Sp, Fa), for each semester they are in residence. Each student will register for AGEC 5011 the last semester in residence.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Agricultural and Extension Education (AEED)

Faculty
  Casandra Kay Cox, Instructor
  Don Edgar, Associate Professor
  Leslie Dawn Edgar, Professor
  Donna Lucas Graham, Professor
  Donald M. Johnson, Professor
  Jefferson Davis Miller, Professor
  Kathryn Jill Rucker, Assistant Professor
  Kate Shoulders, Assistant Professor
  George W. Wardlow, Professor
Degrees Conferred:

M.S. (AEED)

Areas of Study: Agricultural education, communication, technology, or extension education, and a technical area.

Primary Areas of Faculty Research: Agricultural teacher education; extension and non-formal education; agricultural systems technology management; and agricultural communications.

Prerequisites to Degree Program: Bachelor’s degree in a closely allied field. Some deficiency courses may be assessed depending on the background and educational objectives of the student. Applicants must be admitted to the Graduate School and must have a) satisfactory undergraduate preparation in related fields of study and b) satisfactory GRE or MAT scores. In addition, applicants must submit three letters of recommendation and a writing sample.

Requirements for the Master of Science (M.S.) Degree: This program requires 33 semester hours, with a choice of either a thesis or non-thesis option. There are 12 hours of core courses consisting of AGED 5463 Research Methodology in the Social Sciences (Fa), AGED 5473 Interpreting Social Data in Agriculture (Sp), AGED 5483 Technical Communication in the Social Sciences (Sp), and AGED 5053 Philosophy of Agricultural and Extension Education (Sp). Additionally, students in the thesis option complete a written thesis, AGED 600V (six hours). Students in the non-thesis option complete a three-hour special problem, AGED 510V. The remaining hours (15 for the thesis option, 18 for the non-thesis option) may be taken in a technical area or agricultural and extension education courses. The thesis will focus on a research problem that bridges agricultural education, communication, technology or extension education, with the technical area.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Agricultural, Food and Life Sciences (AFLS)

Lona J. Robertson
Associate Dean, Dale Bumpers College of Agricultural, Food and Life Sciences
479-575-2252
E-mail: ljrobert@uark.edu

Kristin Seals
Program Coordinator
AFLS D112
479-575-3163

E-mail: kdseals@uark.edu

Degree Conferred:
M.S. in Food Safety (FDSF)

Graduate Certificate offered (non-degree):
Bioenergy and Sustainable Technology (BSTCGC)

Both the M.S. in Food Safety (https://online.uark.edu/programs/master-science-food-safety.php) and the Graduate Certificate in Bioenergy and Sustainable Technology (https://online.uark.edu/programs/bioenergy-sustainability-technology-graduate-certificate.php) are offered online through the University of Arkansas Global Campus.

Master of Science Program: The Master of Science in Food Safety is designed to prepare students for higher positions in the food industry. The program provides a subject matter core of courses in food microbiology, sanitation, food processing, epidemiology, food law, HACCP applications, human diseases, and other quality control areas facing the food industry.

The Master of Science in Food Safety program requires a total of 30 hours of graduate-level work. Each student will complete one three-hour special problem in which a technical paper will be developed. This requirement may be satisfied by an approved thesis project in the Poultry or Food Science department. No more than a total of nine hours of thesis, special problems and internships are recognized for degree requirements with no more than a total of six hours of special problems and internships. Each special problem course should be limited to three hours of credit. An oral examination over all course work and the special problem project or thesis is required.

The student’s advisory committee will outline the total program of study and will also determine if any course deficiencies should be addressed. An applicant must meet all of the requirements for admission to the Graduate School. The program’s steering committee provides guidelines for student admission and establishes degree requirements. The student and the Program Coordinator, with approval of the Dean of the Graduate School, select a major adviser. The major adviser, in consultation with the student, will recommend additional faculty members to serve on the student’s advisory committee, including one member from the program steering committee.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Graduate Certificate in Bioenergy and Sustainable Technology:
The Graduate Certificate in Bioenergy and Sustainable Technology is a 15-credit hour program developed collaboratively with the University of Arkansas, Kansas State University, Oklahoma State University and South Dakota State University as part of the Great Plains AG*IDEA Consortium.

Admission to the certificate program will follow the University of Arkansas Graduate School requirements.

There are three core areas that correspond with three core courses: 1) feedstock production, 2) processing/conversion/utilization, and 3) sustainability (economics, life cycle analysis and environment). Students seeking the graduate certificate will take nine credit hours of core courses, and six credit hours of elective courses either in the Conversion Track, the Feedstock Track or the Sustainability Track.
Animal Science (ANSC)

Faculty
Jason Apple, Professor
Clayton Bailey, Adjunct Assistant Professor
Paul Arthur Beck, Professor
Steve Breeding, Adjunct Associate Professor
Joan M. Burke, Adjunct Professor
James D. Caldwell, Adjunct Assistant Professor
Ken Coffey, Professor
M. Shane Gadberry, Extension Associate Professor
Yan Huang, Assistant Professor
Kathleen Iogan, Instructor
John A. Jennings, Extension Professor
Kathleen Jogan, Instructor
Beth Kegley, Professor
Dawn A. Koltes, Adjunct Assistant Professor
James Koltes, Assistant Professor
Bryan Richard Kutz, Instructor
Michael L. Looper, Professor
Charles Maxwell, Professor
Russell A. Nugent III, Adjunct Professor
Kelley Pfalzgraf, Adjunct Professor
Dirk Philipp, Associate Professor
Fred W. Pohiman, Professor
Daniel S. Potter, Instructor
Jeremy G. Powell, Professor
Richard Reuter, Adjunct Assistant Professor
Richard A. Roeder, Professor
Rick Rorie, Professor
Charles F. Rosenkraus Jr., Professor
Elizabeth Rebecca Rumley, Research Assistant Professor
Mark Russell, Extension Assistant Professor
Bruce C. Shanks, Adjunct Assistant Professor
Heidi Ward, Assistant Professor
Troy Wistuba, Adjunct Assistant Professor
Tom Yazwinski, University Professor
Jiangchao Zhao, Assistant Professor

Degrees Conferred:
M.S., Ph.D. (ANSC)

Areas of Study: Graduate studies in subject matter areas of genetics, nutrition, parasitology, meats and physiology may be pursued. Beef cattle, dairy cattle, swine, sheep, and laboratory animals are available for research programs in the Animal Science Department.

Primary Areas of Faculty Research: Animal nutrition; animal physiology; animal breeding (genetics); meat science (muscle biology); parasitology.

Prerequisites to Degree Programs: The student pursuing a program for a Master of Science degree must meet all general requirements of the Graduate School. In addition, the student must have completed the B.S. degree, preferably in a college or university with a major or equivalent in one of the areas of the Animal Science Department. Applicants must submit three letters of recommendation. All applicants must submit scores on the Graduate Record Examinations.

For acceptance into a course of study leading to the Ph.D. degree, a grade-point average of 3.00 on all previous graduate work and three letters of recommendation are required. All applicants must submit scores on the Graduate Record Examinations. Students accepted into the Ph.D. program without a M.S. must have a 3.20 cumulative grade-point average on all undergraduate work. The student will have a minimum of 24 hours post-baccalaureate work and 18 hours of dissertation at the end of the program.

Requirements for the Master of Science Degree: (Minimum 30 hours.)

Thesis Option. The thesis option requires a minimum of 24 hours of graduate course work, plus six hours of thesis research credit. The student and adviser will prepare a program of work that may include additional undergraduate basic courses and at least 24 semester hours of studies plus the successful completion and defense of a thesis and submission of one research paper suitable for submission to a peer reviewed professional journal. The defense of the thesis will consist of an oral defense administered by the graduate adviser and the thesis committee. Any deficiencies in undergraduate major requirements or prerequisites for advanced courses may be included in the student's program in addition to the 24 hours.

Non-thesis Option. The non-thesis option requires the completion of the plan of study outlined below, and successful performance on a final exam, but does not require the preparation of a thesis.

Requirements for application and admission to the non-thesis option:

- Applicants must meet the admission requirements of the University of Arkansas Graduate School. All applicants must submit scores on the GRE.
- An undergraduate B.S. degree in Animal Science or a closely related field of study, OR
- B.S. degree in another field with strong emphasis in the area of biological sciences (deficiency courses in addition to the prescribed 30 hour plan of study may be required).
- B.S. applicants without a strong background in biological sciences may be considered for admission to the program, but will be required to complete deficiency courses, as determined by the graduate admissions committee, in addition to the prescribed 30 hour plan of study.

Students must be accepted by a graduate adviser to begin the non-thesis program. The graduate adviser and the student's graduate committee will administer the non-thesis program. Degree requirements will be completed when the student has satisfactorily completed course work that meets the requirement for the non-thesis degree as listed below, and has
satisfactorily completed a final exam. Students must have a final GPA #
2.85 to graduate from the program.

Non-Thesis M.S. Program Requirement: 30 hours minimum
Core Courses: 18-19 hours

Basic Program Core: 4 Hours
ANSC 5901 Seminar (Fa) 1
AGST 4023 Principles of Experimentation (Fa) 3
STAT 4003 & STAT 4001L Statistical Methods (Sp, Fa) and Statistics Methods Laboratory (Sp, Fa) 4
ESRM 5393 Statistics in Education and Health Professions (Sp, Su, Fa) 3
ESRM 6403 Educational Statistics and Data Processing (Sp, Su, Fa) 3

OR, any graduate level statistics course approved by the advisory committee.

Animal Science Core Courses: 8-9 Hours
Genetics: 3 hours
ANSC 5123 Advanced Animal Genetics (Even years, Fa)
ANSC 5133 Quantitative Inheritance (Odd years, Sp)

Nutrition: 3 hours
Any 5000 level or higher nutrition class in ANSC

Physiology: 2-3 Hours
ANSC 5923 Brain & Behavior (Fa)
ANSC 5932 Cardiovascular Physiology of Domestic Animals (Fa)
ANSC 5942 Endocrine Physiology of Domestic Animals (Fa)
ANSC 5952 Respiratory Physiology of Domestic Animals (Sp)
ANSC 5962 Gastrointestinal/Digestive Physiology of Domestic Animals (Fa)
ANSC 5972 Renal Physiology (Sp)
ANSC 6833 Reproduction in Domestic Animals (Even years, Sp)

ANSC Electives: 9 Hours
Any graduate-level course in ANSC

General Electives: 9 Hours
CHEM 3813 Introduction to Biochemistry (Su, Fa) 3
(Note: Graduate School approval is required.)
GRSD 5003 The Professoriate: Teaching, Learning and Assessment (Sp) 3
Any 5000 or 6000 level course in departments within AFLS or in BIOL, CHEM, ESRM, or STAT

Or any graduate-level course approved by the graduate advisory committee.

Other program requirements
No more than two credit hours of seminar can be included in the 30 credit hour total.
At least 15 credits of ANSC courses must be at the 5000 level or above.
Non-thesis programs may include no more than three (3) hours of special problems in the minimum 30-credit hour requirement.
No more than six (6) hours of 4000-level graduate courses may be counted toward the 30-credit hour requirement.

Students are expected to meet with the graduate mentor at least once per semester.
Students are required to complete the annual graduate student progress report.

Transition Between M.S. Programs: A student can transition from the non-thesis to a thesis program with the approval of the graduate adviser and the department head. A student desiring to transition from the thesis to the non-thesis program must have the approval of the graduate adviser, the M.S. thesis committee, the department head, and the graduate dean. In addition, no credit will be granted for thesis hours, and a maximum of six hours of course work completed at the time of transition can be counted in the non-thesis degree program. Students in the non-thesis option are not eligible for departmental assistantships.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Requirements for the Doctor of Philosophy Degree: In addition to the general requirements of the Graduate School, the requirements will consist of a program of research, appropriate course work and seminars as specified by the student’s graduate committee, as well as a dissertation and two research papers acceptable to the dissertation committee.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Anthropology (ANTH)
Faculty
Jamie Brandon, Associate Research Professor
JoAnn D’Alisera, Associate Professor
Lucas Delezene, Instructor
Kirstin C. Erickson, Associate Professor
Marvin Kay, Professor
Kenneth L. Kvamme, Professor
Fred Limp Jr., University Professor
Jonathan Saul Marion, Associate Professor
Venkatesan Ram Natarajan, Assistant Professor
Justin Murphy Nolan, Associate Professor
Joseph M. Plavcan, Professor
Jerry Rose, University Professor
George Sabo III, Professor
Wesley Stoner, Assistant Professor
Ted R. Swedenburg, Professor
Claire E. Terhune, Assistant Professor
Peter S. Ungar, Distinguished Professor

Peter Ungar
Department Chair
330 Old Main
479-575-2508
E-mail: pungar@uark.edu

JoAnn D’Alisera
Director of Graduate Studies
330 Old Main
479-575-2508
E-mail: dalisera@uark.edu

http://anth.uark.edu

Degrees Conferred:
M.A., Ph.D. (ANTH)

Areas of Study: Archeology; biological/physical anthropology, and cultural anthropology.

Primary Areas of Faculty Research: The biological anthropology faculty studies the present and past nature and evolution of humans and other primates. Faculty specializations are evolutionary theory, paleoanthropology, dental analysis, bioarcheology, comparative morphometrics. The cultural anthropology program focuses on such issues as gender, class, religion, and public culture as shaped by history and migration. Faculty area specialties include North America, Latin America, the Middle East, and Africa. Training is offered in popular memory, material culture, religion, performance studies, sociolinguistics, ethnobiology, medical anthropology, and popular culture. The archeology faculty is particularly strong in the U.S. Southeast, Great Plains, and the Middle East. Their research interests range from ethnography to lithic analysis, Quaternary environments, ground-based geophysical and satellite remote sensing, applications of geographical information systems technology, quantitative techniques, mortuary studies, historical archeology, and ecology. A major emphasis, in collaboration with the Arkansas Archeological Survey, is public archeology.

Prerequisites to Degree Program: Applicants must be admitted to the Graduate School and meet the following requirements: 1) satisfactory undergraduate preparation in anthropology, 2) three letters from persons competent to judge applicant’s potential for graduate study, 3) satisfactory GRE scores, and 4) a completed departmental application. Students who do not meet these requirements may be admitted conditionally. Students with course deficiencies may enroll concurrently in graduate courses.

Requirements for the Master of Arts Degree: (Minimum 30/36 hours, depending on option chosen.) A student may choose one of three options to satisfy the requirements for a Master of Arts degree in anthropology:

Anthropology M.A. with Thesis: (Minimum 30 hours.) A minimum of 24 semester hours of course work including distribution requirements specified by the department, six semester hours of thesis, and an oral examination conducted by the candidate’s faculty committee.

Anthropology M.A. with Internship: A minimum of 30 semester hours of course work including distribution requirements specified by the department, six hours of internship, evidence of research ability, and an oral examination conducted by the candidate’s faculty committee.

Anthropology M.A. without Thesis: Thirty-six semester hours including distribution requirements specified by the department and an oral examination conducted by the candidate’s faculty committee.

A list of courses that meet the general distribution requirement is available from the departmental chair. A minimum of 21 graduate hours in anthropology is required in all three options.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Requirements for the Doctor of Philosophy Degree: (Minimum of 42 hours, including 18 hours of dissertation.)

Admission Requirements: Applicants are generally required to have a master’s degree in anthropology (or the equivalent) and demonstrate competence in the subfields of archeology, biological anthropology, and cultural anthropology. A student who begins doctoral study with an M.A. from another university must take the courses required for the M.A. here that were not taken elsewhere, but these deficiency courses may, with the consent of the student’s advisory committee, count toward the 24-hour course requirement. Applicants without a master’s degree in anthropology (or its equivalent) but with exceptionally strong qualifications may be admitted directly into the Ph.D. program at the discretion of the department faculty.

Advisory Committee: During the first semester of study, all students will be assigned an advisory committee that will determine their particular programs. Students will select a subfield of specialization (archeology, biological anthropology, or cultural anthropology).

Foreign Language Requirement: Students are required to demonstrate competence in a foreign language.

Course Requirements: Students in the doctoral program are required to complete 24 semester hours of course work for graduate credit beyond the M.A. degree. This work will include four seminar courses to include at least one class in archeology, biological anthropology, and cultural anthropology. To strengthen and support an area of expertise, a student may take up to six hours of graduate course work in other departments. Subject to the approval of the student’s adviser, these hours will count toward the 24-hour course requirement for the degree.

Candidacy Examinations: A student must complete Graduate School residence requirements and departmental course requirements before taking the written candidacy examinations. Students will notify their committees of their intention to take the examination, and their advisory committee will construct the examination questions. The exams will be taken on campus over a period of three days. The areas that will be examined are discussed in the department’s Graduate Student Handbook.

The student’s advisory committee, in consultation with other faculty as needed, will evaluate the written answers. The student’s advisory committee chair will meet with the student and provide relevant feedback, including any weaknesses in the written examination that might need to be addressed in the oral examination.

The committee chair will then schedule an oral exam with the student’s advisory committee. After the oral exam, the advisory committee will meet and make one of the following recommendations:

1. The student has demonstrated the knowledge, skills, and abilities to proceed with his/her dissertation. The student is then admitted to candidacy.

2. Remedial work is necessary. Remedial work may include taking portions of the qualifying exam again, writing another paper, taking an additional course or independent study, or other options as appropriate. Upon successful completion of this remedial work, the student will be admitted to candidacy.

3. The student is not admitted to candidacy.

The committee recommendations will be communicated in writing to the student and to the department chair, and the Graduate School will be notified in writing by the department chair when students have passed their candidacy examinations.

Proposal Defense: Upon admission to candidacy, students will select a dissertation committee with a major professor as chair to direct the research and writing. Under direction of the major professor, candidates will develop programs of reading in the general areas and research techniques pertinent to preparing their dissertations. To demonstrate competence in this preparation, the dissertation committee will conduct an oral proposal defense. This proposal defense must be taken no later
than the end of the fall or spring semester after completing the written qualifying examinations.

Dissertation and Dissertation Defense: Students will demonstrate a capacity for independent research by writing an original dissertation on a topic within their subfield of specialization. Within the time limits specified by the Graduate School, students must submit a dissertation acceptable to their dissertation committee. Students' final examinations will be oral and primarily a defense of their dissertations.

Teaching Requirement: Although the Doctor of Philosophy degree is primarily a research degree, communication skills are critical to professional development. Therefore, each doctoral candidate will be required to engage in teaching activities before completion of the program.

Faculty members located off-campus are available for research and individual guidance in any of these options. They may also chair and serve on student committees.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Environmental Dynamics: Anthropology participates in the interdisciplinary Ph.D. program in Environmental Dynamics (p. 109).

Common Market: Through an agreement with the Academic Common Market (p. 298), residents of certain Southern states may qualify for graduate enrollment in this degree program as in-state students for fee purposes.

Art (ARTS)

Faculty
David Andree, Visiting Assistant Professor
David Charles Chioffi, Associate Professor
Dylan DeWitt, Instructor
Rebecca Drolen, Visiting Assistant Professor
David A. Gibbs, Instructor
Alexander J. Hanson, Instructor
Thomas Layley Hapgood Jr., Associate Professor
Jeannie Hulen, Associate Professor
Lynn Frances Jacobs, Distinguished Professor
Sam King, Instructor
Angela M. LaPorte, Professor
Marty Lane, Assistant Professor
Linda Nguyen Lopez, Instructor
Mathew S. McConnell, Assistant Professor
Matthew Thomas Meers, Instructor
Marc E. Mitchell, Assistant Professor
Sean P. Morrissey, Assistant Professor
Kristin Ann Musgnug, Associate Professor
Michael David Peven, Professor
Ana Pulido Rull, Assistant Professor
Kasey Ramirez, Instructor
Bethany Lynn Springer, Associate Professor
Larry David Swartwood, Visiting Assistant Professor
Cindy Wiseman, Instructor
Jeannie Hulen
Department Chair
116 Fine Arts Center
479-575-5202

Marc Mitchell
Kristin Musgnug
Graduate Coordinators
116 Fine Arts Center
479-575-5202
E-mail: mmitch@uark.edu; sjpierce@uark.edu
http://art.uark.edu

Degree Conferred:
M.F.A. (ART)

The objective of the program of study leading to the degree of Master of Fine Arts in art shall be professional achievement of high order, a knowledge of art history and criticism, the development of a fundamental grasp and understanding of the professional field of art and its relationship to supporting fields of knowledge, as well as the satisfactory completion of course work and other degree requirements. The program of study will vary depending upon the art medium areas selected for the creative work and the goals of the individual graduate student. The Master of Fine Arts degree in art is considered to be the terminal degree in studio art and is awarded in recognition of professional development in the visual arts as evidenced by a period of successful post-bachelor's degree study. The M.F.A. degree is recognized as preparatory to studio art teaching positions at institutions of higher education.

Areas of Study: Major and/or minor areas of study include drawing, painting, sculpture, design, printmaking, ceramics, and photography.

Prerequisites to Degree Programs: An earned bachelor's degree with an art major concentration or its equivalent. Consideration will be given to applicants without an art major concentration who present evidence of proficiency in creative work in the visual arts.

Acceptance to the M.F.A. degree program requires a two-semester art history survey or its equivalent. Failing to meet this requirement, the M.F.A. student is required to complete the appropriate semesters of survey of art history for non-graduate credit.

In addition to the requirements for admission to the Graduate School, the applicant must also submit the following materials to the Department of Art: transcripts of college level work; at least three letters of reference concerning art work, work habits, and potential for graduate study in art; a portfolio of art works; a personal statement concerning background, conceptual and technical development, and goals for graduate study in art; and an application form obtained from the Department of Art on request.

Requirements for the Master of Fine Arts Degree: Completion of a minimum of 60 semester credit hours and a minimum of four regular semesters in residence (not to include summer terms).

1. A minimum of 42 credit hours in studio courses:
   a. A minimum major concentration area of a total of 24 credit hours. For each semester in residence, excluding summers and the final semester, M.F.A. candidates must enroll in a minimum of three hours in their major concentration area as advised by their media area advisor.
   b. Two semesters of ARTS 5913 Graduate Seminar in Studio Art, to be taken in the fall semesters of the first and second years of study (total of 6 credit hours).
   c. A minimum of 12 Studio Art Elective credit hours. These may include 3 credit hours in excess of the required 12 hours of Art History and/or criticism. Up to 6 credit hours in graduate courses
taken outside the art department may be included, with prior approval.

2. Art History requirement: While in the M.F.A. program, the student is required to complete a minimum of twelve hours of art history as follows:
   a. Six hours of elected pre-19th century or post-19th century art history courses.
   b. ARHS 4933 Contemporary Art
   c. ARHS 4763 Seminar in Critical Theory

3. In the final year prior to graduation, the M.F.A. candidate must demonstrate satisfactory progress toward the M.F.A. exhibition thesis by submitting regular thesis progress reports to the thesis chair and committee, as well as faculty and peers in the M.F.A. candidate’s media area.

4. The required final semester in the M.F.A. program is to be devoted to work on the M.F.A. exhibition, ARTS 601V (6 credit hours), the production and presentation, under the direction of a graduate committee, of a one-person exhibition of art work. The M.F.A. candidate will be responsible for making one acceptable digital presentation of the exhibition and exhibition statements, which will be retained by the Department of Art and the University Library.

The final semester must be completed during a regular school year. During this final semester, the M.F.A. candidate may enroll for three additional credit hours in electives if the candidate does not hold a graduate assistantship. The M.F.A. candidate holding an assistantship may not take additional credits in the final semester.

In addition to the requirements listed above, the M.F.A. program in Art also requires:

1. Graduate Critiques: All M.F.A. students are required to participate in regular reviews critiquing their artworks. These reviews involve both a mid-term critique conducted by several faculty members and a final critique attended by the entire department faculty and all current M.F.A. students. After M.F.A. students receive Candidacy, their participation is still required although they will no longer need to present their artwork for review.

2. Candidacy Application and Review: After completion of at least two semesters in the M.F.A. degree program, the student may make application to be a candidate for completion of the M.F.A. degree. The art faculty will conduct a formal review of the applicant’s work and progress in the program. The awarding of candidacy will be dependent upon a two-thirds majority vote by the graduate faculty based on the following criteria: 1) a demonstrated formal and technical proficiency in the applicant’s major studio area; 2) conceptual development as demonstrated by growth in ideas supporting the applicant’s creative research; 3) an ability to locate their research in the context of issues and practices within contemporary and historical art issues; and 4) the ability to communicate the intention and basis of their research in coherent written and verbal form. At least two regular semesters of residence must be completed after acceptance as a degree candidate.

3. Graduate Committee and Major Adviser: When the student has been accepted as a degree candidate, the student will select a major adviser from the graduate art faculty. The major adviser will serve as adviser to the student in planning the completion of the program of study. At least one semester before graduation, a four- or five-member committee of graduate art faculty will be selected. The student’s major adviser will be chairperson of this committee, and one member of the graduate committee will represent the art history or criticism area. The degree candidate may select one additional committee member from a discipline outside the Department of Art.

Asian Studies (AIST)

Ka Zeng
Chair of Studies
428 Old Main
479-575-3356

Athletic Training (ATTR)

The Master of Athletic Training degree program prepares individuals for employment as athletic trainers for high school, college, professional sports organizations and private clinics.

The Master of Athletic Training degree requires 56-59 credit hours of course work to graduate.

Prerequisites to Athletic Training Degree Program: For acceptance to the Master of Athletic Training degree program, in addition to the general requirements for admission to the Graduate School, an undergraduate degree in kinesiology or in a related field and the following admission standards: an overall undergraduate GPA of 3.00 or if the overall undergraduate GPA is between 2.70 and 2.99, the student must have a 3.00 GPA on the last 60 hours of undergraduate course work (excluding student teaching), or a GRE score of 1000 on the verbal and quantitative parts of the general test.

Requirements for the Master of Athletic Training Degree:

Candidates for the Master of Athletic Training degree must complete 53 semester hours of graduate work and an independent research project or thesis. A graduate GPA of 3.0 or better is required for graduation. In addition, all degree candidates must successfully complete the required athletic training competencies and proficiencies as mandated by the accrediting body.

The Master of Athletic Training:

The student is offered the opportunity to interact with high quality researchers/teachers in the field of exercise science throughout the two and half years of course work, clinical rotations, and the research thesis, project or case study. Employment opportunities for graduates include serving as health care professionals for sports medicine clinics and hospitals. Other employment opportunities include professional teams as well as university, college, and secondary school athletic teams. This athletic training program is a pre-certification program in athletic training and is not intended for students who are already eligible to sit for the BOC examination. This is a full-time graduate program that begins in July each year, and requires considerable clinical experience as part of the requirements for graduation. This is a competitive master’s program that requires admission to the HHRP department and the Graduate Athletic Training Education Program.

Deficiency/Prerequisite Courses for Admission to the Master of Athletic Training: Students desiring admission to the athletic training education program must complete the following deficiency/prerequisite courses prior to admission:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 1213</td>
<td>Fundamentals of Nutrition (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 2393</td>
<td>Prevention and Care of Athletic Injuries (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 3153</td>
<td>Exercise Physiology (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 3353</td>
<td>Mechanics of Human Movement (Sp, Su, Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>
If the above courses were obtained at a college/university other than the University of Arkansas, course syllabi/outline for courses that are requested to meet the requirements must be submitted to the Program Director of Athletic Training Education for approval. It is imperative that students have the equivalent of the above undergraduate deficiencies/prerequisites to satisfy the competencies set forth by the National Athletic Trainers' Association Board of Certification. Students will be assigned to complete the above deficiency/prerequisite courses if no evidence of the above courses is presented.

Students who desire consideration for admission to the athletic training education program must submit the following information:

1. Current CPR/First Aid Certification;
2. Each student must provide evidence of a preprogram physical examination based on the University of Arkansas athletic training education program's technical standards by a board certified physician;
3. Evidence of immunizations (mumps, measles, rubella, tetanus, and diphtheria);
4. Hepatitis B vaccination or waiver prior to beginning the clinical field base experience (the University of Arkansas Student Health Center offers the Hepatitis B vaccination for $120.00 for all three shots);
5. A current tuberculosis screening test;
6. A minimum of 50 hours of observation under the direct supervision of a BOC certified athletic trainer;
7. Three professional letters of recommendation;
8. Completion of the University of Arkansas Graduate School Application (because of national accreditation standards/guidelines, admission into the athletic training education program is selective, and therefore, admission to the Graduate School of the University of Arkansas does not guarantee admission into the Athletic Training Education Program);
9. Completion of the Athletic Training Education Program Application (see athletic training Web site);
10. An official copy of all transcripts; and
11. All prospective students must satisfy required athletic training technical standards that are listed below.

**Athletic Training Education Technical Standards:** Because the Master of Athletic Training degree and BOC certification signifies that the holder is a clinician prepared for entry into the practice of athletic training within a variety of employment and education settings, it follows that graduates must have the knowledge and skills to function in a broad variety of clinical situations and to render a wide spectrum of patient care. Therefore, the students must meet technical standards before being admitted to the Athletic Training Education Program. The technical standards set forth by the Athletic Training Educational Program establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program’s accrediting agency (Commission on Accreditation for Athletic Training Education (CAATE)). Applicants who may not meet these technical standards are encouraged to contact the Program Director of Athletic Training Education, 303 HPER Building, University of Arkansas. The following are the technical standards:

1. Candidates must be able to actively learn from observations, demonstrations, and experiments in the basic sciences.
2. Candidates must be able to learn to analyze, synthesize, solve problems, and reach assessment and therapeutic judgments distinguished from the norm.
3. Candidates must have sufficient sensory function and coordination to perform appropriate physical examinations using acceptable techniques.
4. Candidates must be able to relate effectively to athletes and the physically active and to establish sensitive, professional relationships with them.
5. Candidates are expected to be able to communicate the results of the assessment to the injured or ill exerciser, to responsible officials, to parents or guardians, and to colleagues with accuracy, clarity, and efficiency.
6. Candidates are expected to learn and perform routine prevention, assessment, emergency care, and therapeutic procedures.
7. Candidates are expected to be able to display good judgment in the assessment and treatment of injured or ill athletes and physically active individuals.
8. Candidates must be able to learn to respond with precise, quick, and appropriate action in emergency situations.
9. Candidates are expected to be able to accept criticism and respond by appropriate modification of behavior.
10. Candidates are expected to possess the perseverance, diligence, and consistency to complete the athletic training degree curriculum as outlined and sequenced, to attempt BOC certification within the year of program completion, and to enter the practice of athletic training.

Prospective students are required to consult the athletic training website (http://kines.uark.edu/atep) for information concerning application procedures and specific policies and procedures of the athletic training education program. Following the deadline for application acceptance, the athletic training selection committee, which is comprised of the two athletic training faculty and the HHPR graduate coordinator, will evaluate and rate each applicant. This rating is determined by a 5 point Likert scale and written verbal comments in the areas of GPA, work experience, letters of recommendation, and writing ability (essay requirement). Once a determination has been rendered concerning the applicant's desire for admission, a formal letter noting acceptance, denial, or placement on a wait-list will be sent to the applicant from the Program Director.

The University of Arkansas Graduate School transfer of credit policy will apply if a student desires to transfer credit hours from another institution into the athletic training education program (see transfer credit policy for the Master of Science Degree Program located in the Graduate Catalog).

**Athletic Training:** (56-59 hours)

**Required Research Component (3 hours)**

- ESRM 5393 Statistics in Education and Health Professions (Sp, Su, Fa)
- or ESRM 6403 Educational Statistics and Data Processing (Sp, Su, Fa)

**HHPR Required Courses (50 hours)**
Bioenergy and Sustainable Technology (BSTC)

Lona J. Robertson  
Associate Dean, Dale Bumpers College of Agricultural, Food and Life Sciences  
479-575-2252  
E-mail: ljrobert@uark.edu

Diana Bisbee  
Program Coordinator  
AFLS E-108  
479-575-2025  
E-mail: dbisbee@uark.edu

Graduate Certificate offered (non-degree):  
Bioenergy and Sustainable Technology (BSTCGC)  
Bumpers College (http://bumperscollege.uark.edu/bst)

Graduate Certificate in Bioenergy and Sustainable Technology:  
The Graduate Certificate in Bioenergy and Sustainable Technology is a 15-credit hour program developed collaboratively with the University of Arkansas, Kansas State University, Oklahoma State University and South Dakota State University as part of the Great Plains AG*IDEA Consortium.

Admission to the certificate program will follow the University of Arkansas Graduate School requirements.

There are three core areas that correspond with three core courses: 1) feedstock production, 2) processing/conversion/utilization, and 3) sustainability (economics, life cycle analysis and environment). Students seeking the graduate certificate will take nine credit hours of core courses, and six credit hours of elective courses either in the Conversion Track, the Feedstock Track or the Sustainability Track.

Biological Sciences (BISC)

Faculty
Andrew James Alverson, Assistant Professor  
Ravi Damodar Barabote, Assistant Professor  
Steven J. Beaupre, Professor  
Robert Coriden, Assistant Professor  
Marlis R. Douglas, Associate Professor, Bruker Life Sciences Chair  
Michael Edward Douglas, Professor, 21st Century Chair in Global Change Biology  
Yuchun Du, Associate Professor  
Jeanine M. Durdik, Professor  
William J. Etges, Professor  
Timothy A. Evans, Assistant Professor  
Michelle Ailayne Evans-White, Associate Professor  
Johnnie L. Gentry Jr., Professor  
Robyn Goforth, Research Assistant Professor  
Ralph Leroy Henry, Distinguished Professor, W.M. Keck Endowed Professorship  
Mack Ivey, Associate Professor  
Stefan M. Kilyanek  
Timothy Alan Kral, Professor  
David G. Krementz, Research Professor  
Michael Herbert Lehmann, Associate Professor  
Daniel J. Lessner, Associate Professor  
Jeffrey A. Lewis, Assistant Professor  
Daniel D. Magoulick, Research Professor  
David S. McNabb, Associate Professor  
Kusum Naithani, Assistant Professor  
Ines Pinto, Associate Professor  
Douglas Duane Rhoads, University Professor  
Adam Siepielski, Assistant Professor  
Jeffrey Donald Silberman, Associate Professor  
Kimberly G. Smith, Distinguished Professor  
Frederick W. Spiegel, Distinguished Professor  
Steven Lee Stephenson, Research Professor  
Christian K. Tipsmark, Associate Professor  
Charles Vo, Instructor  
James M. Walker, Professor  
John David Willson, Assistant Professor

Steven J. Beaupre  
Department Chair  
632 Science-Engineering Building  
479-575-3251  
E-mail: sbeaupre@uark.edu

David S. McNabb  
Graduate Coordinator  
526 Science-Engineering Building  
479-575-3797  
E-mail: dmcnabb@uark.edu (dmcnabb@uark.edu)
Degrees Conferred:
M.S., Ph.D. in Biology (BIOL)

The graduate programs in Biological Sciences offer opportunity for advanced study and research to students who desire a comprehensive view of biological sciences. Accomplishment is judged by competence and a developing sense of responsibility for the advancement of knowledge rather than the fulfillment of routine requirements. The faculty requires of all candidates for advanced degrees a period of study in residence, advanced competence in the chosen area of expertise, satisfactory introduction to allied subjects, the ability to communicate at a scholarly level, and a satisfactory performance in examinations.

Primary Areas of Faculty Research: Cell and molecular biology (biotechnology, cellular physiology, functional genomics, gene regulation, immunology, developmental biology, molecular genetics, pathogenic microbiology); ecology and evolutionary biology (animal behavior, aquatic ecology, animal and plant physiology, conservation biology, community ecology, exobiology, fisheries biology, limnology, molecular systematics, mycology, physiological ecology, plant morphology, population and quantitative genetics, taxonomy, vertebrate biology – herpetology, ichthyology, mammalogy, ornithology – and wildlife management).

Admission to Degree Program: Applicants who wish to study for advanced degrees are expected to present a minimum of 18 hours of biological science. These normally will include training in the three areas of the Biology Subject test of the Graduate Record Examinations: a) cellular and molecular biology, b) organism biology, and c) ecology, evolution, and population biology. Applicants lacking experience in any of the above areas will be expected to broaden their biological training and may be assigned specific course work to fulfill this requirement. Students lacking a total of 18 hours of biological sciences may be admitted on a conditional basis and are not eligible for assistantships. All students applying for admission to the graduate program must provide scores on the verbal, quantitative, and analytical writing sections of the Graduate Record Examinations. Those scores, along with transcripts and three letters of recommendation, will be used in evaluating applications of students applying for assistantships.

All students must have a major professor to enter the graduate program in biological sciences. Ultimately each candidate will have a committee composed of members of the graduate faculty and the student's major professor. Students must also fulfill the Graduate School’s residency requirements, which are stated elsewhere in this catalog.

Admission to Degree Program: All students are required to earn credit in two graduate seminars. Additional seminar requirements may be specified by the major professor in conjunction with the graduate committee. Students are required to present a research seminar prior to the oral thesis or dissertation defense.

Requirements for the Master’s Degree: The Master of Science degree requires 30 semester hours of graduate credit specified by the department to include at least 24 semester hours of course credit and thesis research. Any student who receives a grade of “D” or “F” in any graduate-level course will be subject to dismissal following review by the Graduate Studies Committee. Master of Science students are required to enroll in BIOL 600V for 6 hours of credit and to submit a scholarly thesis based on field and/or laboratory research. A specific coursework program will be selected under the guidance of the student’s major professor and graduate committee. An oral comprehensive examination is required of all candidates, including a defense of the thesis, which will follow their research seminar.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Specific Requirements for the Doctor of Philosophy Degree: There are no formal course requirements for doctoral students, except the two seminars mentioned previously. However, students complete a minimum of 72 graduate semester hours if entering the Ph.D. program without a master’s degree, or 42 graduate semester hours beyond the master’s degree. A minimum of 18 hours must be taken in dissertation credit; these will count in the minimums mentioned in the previous sentence. Any student who receives a grade of “D” or “F” in any graduate-level course will be subject to dismissal following review by the Graduate Studies Committee. Any student receiving more than two grades of “C” in courses of two or more credit hours is no longer eligible for the Ph.D. degree, but may elect to complete an M.S. degree in the program. The Ph.D. is granted not only for fulfillment of technical requirements, but also for development and possession of a critical and creative ability in science and fruitful expression of imagination. Evidence of this is given in the dissertation that the candidate prepares, which constitutes an original research contribution to the fields of the biological sciences.

The Graduate School requires two examinations of all students pursuing the Doctor of Philosophy degree. These examinations are designed to assist students in developing the ability to communicate at a scholarly level and to show they have attained intellectual mastery of knowledge relating to the biological sciences. The first examination, the Candidacy Examination, contains questions related to the student’s field of interest and such other areas as the doctoral committee may specify. This examination is given by the doctoral advisory committee in two parts, written and oral. The written and oral portions of the candidacy examination must be completed within the first three calendar years in the program. Satisfactory performance on this examination will be indicated by either pass or fail as determined by the doctoral committee. In the event of failure, the examination may be repeated at the discretion of the doctoral committee. In no case may the candidacy examination be taken more than twice. Notification to the Graduate School of failure to pass the Candidacy Examination means that the student is dismissed from the Ph.D. program, and the student is not eligible for readmission into the Biology program to pursue the Ph.D. degree. The second examination, the oral Final Examination, preceded by a research seminar, is primarily concerned with the candidate’s dissertation and is taken at the end of the candidate’s program.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Biological and Agricultural Engineering (BAEG)

Faculty

Thomas A. Costello, Associate Professor
Brian Edward Haggard, Professor
Christopher Garrett Henry, Assistant Professor
Jin-Woo Kim, Professor
Yanbin Li, Distinguished Professor, Tyson Endowed Chair in Biosensing Engineering
Yi Liang, Associate Professor
Otto J. Loewer Jr., Professor
Marty D. Matlock, Professor
Students with an ABET-accredited or equivalent Engineering Degree

- Students to an M.S. program from a B.S. degree in engineering or to a Ph.D. program from a B.S. degree in engineering and an M.S. degree:
  1. A score of 301 or above (verbal and quantitative) on the Graduate Record Examination (GRE) (http://www.gre.org/ed).
  2. A TOEFL (http://test.uark.edu/toefl-ibt) score of at least 550 (paper-based) or 213 (computer-based) or 80 (Internet-based). This requirement is waived for applicants whose native language is English or who earn a Bachelor’s or Master’s degree from a U.S. institution.
  3. GPA of 3.00 or higher on the last 60 hours of a B.S. degree or B.S. and/or M.S. degrees.
  4. B.S. degree in engineering from an ABET accredited program or equivalent.

- Students to a Ph.D. program directly from a B.S. degree in engineering:
  1. A score of 307 or above (verbal and quantitative) on the GRE.
  2. A TOEFL (http://test.uark.edu/toefl-ibt) score of at least 550 (paper-based) or 213 (computer-based) or 80 (Internet-based). This requirement is waived for applicants whose native language is English or who earn a Bachelor’s or Master’s degree from a U.S. institution.
  3. A cumulative GPA of 3.5 or above for undergraduate work.
  4. B.S. degree in engineering from an ABET accredited program or equivalent.

Students without an Engineering Degree

- Students to an M.S. program from a non-engineering B.S. degree:
  1. A score of 301 or above (verbal and quantitative) on the GRE.
  2. A TOEFL (http://test.uark.edu/toefl-ibt) score of at least 550 (paper-based) or 213 (computer-based) or 80 (Internet-based). This requirement is waived for applicants whose native language is English or who earn a Bachelor’s or Master’s degree from a U.S. institution.
  3. GPA of 3.00 or higher on the last 60 hours of a BS degree.
  4. Completion of 18 hours of engineering course work.

- Students to a Ph.D. program from non-engineering B.S. plus M.S. degrees:
  1. A score of 301 or above (verbal and quantitative) on the GRE.
  2. A TOEFL (http://test.uark.edu/toefl-ibt) score of at least 550 (paper-based) or 213 (computer-based) or 80 (Internet-based). This requirement is waived for applicants whose native language is English or who earn a Bachelor’s or Master’s degree from a U.S. institution.
  3. GPA of 3.00 or higher on the last 60 hours of B.S. and/or M.S. degrees.
  4. Completion of 18 hours of engineering course work.

- Students to a Ph.D. program directly from a non-engineering B.S. degree:
  1. A score of 307 or above (verbal and quantitative) with 155 (quantitative) and 4.5 or above in writing on the GRE.
  2. A TOEFL (http://test.uark.edu/toefl-ibt) score of at least 580 (paper-based) or 237 (computer-based) or 92 (Internet-based). This requirement is waived for applicants whose native language is English or who earn a Bachelor’s or Master’s degree from a U.S. institution.
  3. A cumulative GPA of 3.5 or above for undergraduate work.
  4. Completion of 18 hours of engineering course work.
Finally, a member of the faculty who is eligible (graduate status of group II or higher) must agree to serve as the major adviser to the prospective student.

Detailed requirements are in the Biological and Agricultural Engineering Department Graduate Student Handbook, available at baeg.uark.edu.

Requirements for the Master of Science Degree: (Minimum 30 hours)
In addition to the requirements of the Graduate School and the graduate faculty in Engineering, the following departmental requirements must be satisfied for the M.S.B.E. degree:

1. Candidates are required to complete not less than 24 semester hours of course work acceptable to the committee and a minimum of six semester hours of thesis.
2. The minimum acceptable grade on a graduate course is “C.”
3. Prior to acceptance into the program a candidate must, in consultation with the department head, identify a professor who is willing to serve as the major professor. During the first semester, the candidate must, in consultation with the major professor and department head, select a graduate committee. The candidate will, in consultation with the committee, prepare a written graduate program of study that will achieve the candidate’s objectives.
4. Candidates must prepare a paper suitable for submission to a refereed journal from research done for a thesis or BENG 500V.

Detailed requirements are in the Biological and Agricultural Engineering Department Graduate Student Handbook, available at baeg.uark.edu.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Requirements for the Doctor of Philosophy Degree: (Minimum 78 hours)
In addition to the requirements of the Graduate School, the department follows the College of Engineering’s requirements with an additional requirement:

1. All students must complete a minimum of 78 semester hours of graduate-level credit beyond the engineering bachelor's degree, including a minimum of 48 semester hours of course work and a minimum of 30 semester hours of dissertation research credits.
2. A minimum of 30 semester hours of course work must be at the graduate level (5000 or above).
3. Upon recommendation of the student’s advisory committee, a student who has entered the Ph.D. program after a master’s degree in engineering may receive credit for up to 30 semester hours. If the 30 hours includes master’s thesis research, the advisory committee may credit up to 6 hours of thesis research toward the minimum dissertation research requirement.
4. Complete a minimum of nine semester credit hours of coursework in a set of coherent courses in a related subject area approved by the student’s advisory committee.
5. Earn a minimum cumulative grade-point average of 3.0 on all graduate courses attempted.
6. Satisfactorily pass both a written and/or oral candidacy examination (Note that the Engineering College defines this examination as a qualifying examination). The purpose of the written and/or oral candidacy exam is to ensure the student has met a depth of competency in a narrowly focused area of specialization sufficient to understand and advance the current state of the art. After completing approximately two years of graduate study beyond the M.S. degree or equivalent, and at least one year before completing any other

requirements, the prospective candidate must take the candidacy examination. Candidacy exam will be given by the student’s advisory committee. Students may retake a failed candidacy exam once, contingent upon approval of the student’s advisory committee. A student who fails the candidacy examination twice will be terminated from the program.
7. Satisfactorily pass a final comprehensive oral examination and complete and submit a dissertation.

Detailed requirements are in the Biological and Agricultural Engineering Department Graduate Student Handbook, available at baeg.uark.edu.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Biomedical Engineering (BMEG)

Faculty
Kartik Balachandran, Assistant Professor
Hanna Katarina Jensen, Research Assistant Professor
Morten O. Jensen, Associate Professor
Myunghie Michelle Kim, Cinical Assistant Professor
Timothy J. Muldoon, Assistant Professor
Priyaveena Puvanakrishnan, Instructor
Xianghong Qian, Associate Professor
Kyle P. Quinn, Assistant Professor
Narasimhan Rajaram, Assistant Professor
Ashok Saxena, Distinguished Professor, Twenty-First Century Endowed Chair in Materials Science and Engineering
Jeffrey Collins Wolchok, Assistant Professor
David A. Zaharoff, Associate Professor

David Zaharoff
Interim Department Head
120 John A. White Jr. Engineering Hall
479-575-4786
E-mail: bmegrad@uark.edu

Kartik Balachandran
Graduate Coordinator
120 John A. White Jr. Engineering Hall
479-575-2005
E-mail: bmegrad@uark.edu

http://www.engr.uark.edu/bmeg

Degrees Conferred:
M.S.B.M.E. (BMEG)
Ph.D. (BMEG) in Engineering (See Engineering (p. 103))

Master of Science in Biomedical Engineering (M.S.B.M.E.)

Primary Areas of Faculty Research: Bioimaging and biosensing; bioinformatics and computational biology; tissue engineering and biomaterials; bio-MEMS/nanotechnology.

Program Objectives: The objectives of the M.S.B.M.E. program are to prepare graduates for careers in biomedical engineering practice with government agencies, engineering firms, consulting firms or industries and to provide a foundation for continued study at the post-master’s level.

Admission to Degree Program: Admission to the M.S.B.M.E. is a two-step process. First, the prospective student must be admitted to
graduate standing by the University of Arkansas Graduate School (see "The Graduate School: Objectives, Regulations, Degrees" in this catalog or visit grad.uark.edu for details). Second, the student must be admitted to the Department of Biomedical Engineering on the basis of academic transcripts, standardized test scores, three letters of recommendation and a statement of purpose. Students with a non-engineering degree or a non-ABET-accredited engineering degree must demonstrate completion of the basic Engineering Education Requirements prior to being admitted. Complete details for admission may be obtained in the applicable program section from the Biomedical Engineering website (http://bmeg.uark.edu) as well as in the BMEG graduate program handbook. A general summary of admission requirements is given below:

1. A B.S. or M.S. degree in engineering or engineering equivalent or completion of the Basic Engineering Education Requirements (see below) with a GPA of at least 3.0.
2. A GPA of 3.0 or higher on the last 60 hours of the baccalaureate degree.
3. A GRE score of 302 or above (verbal and quantitative).
4. A TOEFL score of at least 213 (computer-based) or 80 (internet based). This requirement is waived for applicants whose native language is English or who earn a bachelor’s or master’s degree from a U.S. institution.
5. A member of the faculty who is eligible (graduate status of group III or higher) must agree to serve as the Major Adviser to the prospective student.

**Basic Engineering Education Requirements:** Prior to gaining admission into the M.S.B.M.E. program, students with a non-engineering degree or a non-ABET-accredited engineering degree must demonstrate completion of the following coursework with a GPA of at least 3.0: 15 hours of Humanities/Social Sciences, 6 hours of English Composition, 16 hours of Mathematics (including Calculus I, Calculus II, Calculus III and Differential Equations), 8 hours of University-level Biology, 8 hours of University-level Chemistry, 8 hours of University-level (calculus-based) Physics, and 15 hours of Basic Engineering Topics (selected from courses such as Biomechanics, Thermodynamics, Bioinstrumentation, Fluid Mechanics, Transport Phenomena and others). Students should consult the Graduate Coordinator for a complete list of courses that satisfy the Basic Engineering Topics criterion.

Complete details for admission may be obtained in the applicable program section from the B (http://bmeg.uark.edu) Biomedical Engineering (http://bmeg.uark.edu) website (http://bmeg.uark.edu) as well as in the BMEG graduate program handbook.

**Requirements for M.S. Degree in Biomedical Engineering:** Both thesis and non-thesis options are available for the M.S.B.M.E. degree. In general, students pursuing the thesis option are supported by research or teaching assistantships and conduct research under the guidance of a major adviser. Students pursuing the non-thesis option are typically not sponsored. For either option, all course work must be approved by the student's program advisory committee. The cumulative grade-point average on all graduate courses presented for the degree must be at least 3.0. A general summary of degree requirements is given below. More detailed information may be obtained from the B (http://bmeg.uark.edu) Biomedical Engineering (http://bmeg.uark.edu) website (http://bmeg.uark.edu) as well as in the BMEG graduate program handbook.

- **Thesis Option:** 24 hours of graduate-level course work, including 12 hours of Biomedical Engineering Graduate Core as identified below, plus six hours of research resulting in a written master's thesis. Candidates must pass a comprehensive final examination that will include an oral defense of the master's thesis. The examination is prepared and administered by the student's master's thesis committee.
  - **Non-thesis Option:** 30 hours of graduate-level course work including 12 hours of Biomedical Engineering Graduate Core as identified below.

### Biomedical Engineering Graduate Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMEG 5103</td>
<td>Design and Analysis of Experiments in Biomedical Research (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>BMEG 5203</td>
<td>Mathematical Modeling of Physiological Systems (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>BMEG 5504</td>
<td>Biomedical Microscopy (Irregular)</td>
<td>4</td>
</tr>
<tr>
<td>BMEG 5801</td>
<td>Graduate Seminar I (Fa)</td>
<td>1</td>
</tr>
<tr>
<td>BMEG 5811</td>
<td>Graduate Seminar II (Sp)</td>
<td>1</td>
</tr>
</tbody>
</table>

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

**Doctor of Philosophy in Engineering with a Concentration in Biomedical Engineering (BMEG)**

**Program Description:** The Ph.D. Degree in Engineering with a concentration in Biomedical Engineering is an interdisciplinary research degree awarded through the College of Engineering in cooperation with the Graduate School (at the University of Arkansas, there is a common Ph.D. degree for all engineering disciplines). The Ph.D. Degree is earned through advanced coursework and in-depth, specialized research. Graduates from this program will be well-prepared for careers in academia, industry or government or as entrepreneurs in technology-based start-up companies.

**Admission to Degree Program:** Admission into the Ph.D. program with a concentration in Biomedical Engineering is a two-step process. First, the prospective student must be admitted to graduate standing by the University of Arkansas Graduate School (see "The Graduate School: Objectives, Regulations, Degrees" in this catalog or visit grad.uark.edu for details). Second, the student must be admitted to the Department of Biomedical Engineering on the basis of academic transcripts, standardized test scores, three letters of recommendation, and statement of purpose. All students in the Ph.D. program are offered either a research or teaching assistantship. A member of the faculty who is eligible (graduate faculty status of Group I), must agree to serve as the major adviser to the prospective student. Because of the multidisciplinary nature of Biomedical Engineering, students holding either Engineering or non-Engineering degrees are eligible to apply. Eligibility criteria are outlined below:

- **Engineering Academic Background:** Students with a B.S. or M.S. degree in engineering or engineering equivalent are eligible to apply for the Ph.D. program.
- **Non-engineering Academic Background:** Students with a non-engineering degree must fulfill the admission requirements for the Master of Science in Biomedical Engineering (M.S.B.M.E.) including the Basic Engineering Education Requirements (see admission requirements for the M.S.B.M.E.). Students with a non-engineering background may be admitted directly into the Ph.D.
program; however, it is recommended that students first complete the M.S.B.M.E. degree before entering the Ph.D. program.

Complete details for admission may be obtained in the applicable section from the B (http://bmeg.uark.edu) website (http://bmeg.uark.edu) as well as in the BMED graduate program handbook.

**Degree Requirements for the Doctor of Philosophy in Engineering with a concentration in Biomedical Engineering:** In addition to the requirements of the Graduate School and the College of Engineering, candidates must meet the following requirements:

1. Develop a Plan of Study within the first year after matriculation.
2. Complete an Annual Progress Report for each subsequent year of study.
3. Complete at least 42 hours of course work beyond the B.S. degree. A minimum of 30 semester hours of course work must be at the graduate level (5000 or above). The cumulative grade-point average on all graduate courses presented for the degree must be at least 3.0. Upon recommendation of the student’s Program Advisory Committee, a student who has entered the Ph.D. program after a M.S. degree in engineering may receive credit for up to 24 hours of course work. See Coursework Requirements, below, for additional details.
4. Complete 30 hours of dissertation. Upon recommendation of the student’s Program Advisory Committee, a student who has entered the Ph.D. program after a M.S. degree in engineering may receive credit for up to six hours of thesis research toward the dissertation requirement.
5. Satisfactorily pass both a written and oral candidacy examination administered by the student’s Program Advisory Committee. Details of the candidacy exam are found in the BMED graduate program handbook.
6. Assist in departmental teaching for two semesters.
7. Submit and defend the final dissertation to the student’s Dissertation Committee.

**Coursework Requirements:** Students are required to complete 42 credit hours of coursework beyond the B.S. degree in engineering or equivalent in the following four categories.

<table>
<thead>
<tr>
<th>Biomedical Engineering Graduate Core (12 hours)</th>
<th>12</th>
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<tbody>
<tr>
<td>BMED 5103 Design and Analysis of Experiments in Biomedical Research (Irregular)</td>
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</tr>
<tr>
<td>BMED 5203 Mathematical Modeling of Physiological Systems (Irregular)</td>
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</tr>
<tr>
<td>BMED 5504 Biomedical Microscopy (Irregular)</td>
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</tr>
<tr>
<td>BMED 5801 Graduate Seminar I (Fa)</td>
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<tr>
<td>BMED 5811 Graduate Seminar II (Sp)</td>
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</table>

Life Science – minimum of six hours approved by the student’s Program Advisory Committee

Engineering Electives – minimum of nine hours approved by the student’s Program Advisory Committee

General Electives – minimum of six hours approved by the student’s Program Advisory Committee

Detailed degree requirements may be obtained in the applicable program section from the B (http://bmeg.uark.edu) website (http://bmeg.uark.edu) as well as in the Biomedical Engineering graduate program handbook.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

**Business Administration (WCOB)**
Anne O’Leary-Kelly
Associate Dean for Research and Graduate Programs
328 Walton College of Business
479-575-2851

Faculty are listed by department

**Degrees Conferred:**
Ph.D. in Business Administration
M.B.A.
Graduate Certificate in Business
Graduate Certificate in Entrepreneurship

**Master of Business Administration**
The Master of Business Administration degree is directed at students preparing for a professional career. Three plans of study are offered: the full-time M.B.A. program, the Executive M.B.A. program, and the Executive M.B.A. program in Panama City, Panama. The full-time M.B.A. program can be finished in 16 months, the Executive M.B.A. program requires a minimum of 24 months of study; and the Executive M.B.A. program in Panama City, Panama can be completed in 13 months.

The Master of Business Administration program is accredited by the Association to Advance Collegiate Schools of Business (AACSB International).

**Requirements for a Master of Business Administration:** The Master of Business Administration program requires 38-48 graduate credit hours of study for students with an adequate undergraduate background. Students without the necessary academic background may be required to take additional hours or noncredit preparatory classes prior to enrollment in the M.B.A. program. The degree is a non-thesis option.

The full-time M.B.A. program comprises 28 hours of core courses, a 9 hour concentration track, 5 hours of professional development, a 3 hour graduate business elective and a 3 hour internship or study abroad for a total of 48 credit hours. The Executive M.B.A. in Panama City, Panama consists of 38 lock-step credit hours. The Executive M.B.A. on the UA Campus consists of 32 hours of core courses and 6 hours of focused study.

**Areas of Concentration/Focused Study Areas:** The M.B.A. full-time program has four defined areas of concentration: Retail Marketing Management, Supply Chain Management, Financial Management and Entrepreneurship and Innovation. The Executive M.B.A. program offers five focused study areas that include Retail Marketing, Supply Chain, Finance, Entrepreneurship/Innovation and Business Analytics.

**Prerequisites to Degree Program:** Students entering the M.B.A. program are expected to have already mastered basic business concepts in the areas of information technology, quantitative analysis, accounting, finance, economics, marketing, management, and business law. Mastery of the aforementioned topics must be demonstrated before entering the program.

**Admission to Degree Program:** Students must be admitted to the Graduate School of Business and to the M.B.A. program by the M.B.A. Admissions Committee. Admission to the M.B.A. program is based upon an acceptable Graduate Management Admission Test (GMAT) score,
an acceptable grade-point average, recommendations, essays, and related work experience. For specific admission requirements in addition to general admission requirements for the M.B.A. program, please access the information online at gsb.uark.edu or contact:

M.B.A. Program Director
310 Willard J. Walker Hall
1 University of Arkansas
Fayetteville, AR 72701
479-575-2851

Requirements for the Master of Business Administration Degree, Full time Program:

<table>
<thead>
<tr>
<th>Spring I</th>
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<tbody>
<tr>
<td>MKTG 5103</td>
<td>Retail Consumer Marketing (Sp)</td>
<td>3</td>
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<tr>
<td>SCMT 5633</td>
<td>Retail and Consumer Products Supply Chain Management (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>FINN 5223</td>
<td>Financial Markets &amp; Valuation (Sp)</td>
<td>3</td>
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<tr>
<td>ISYS 5363</td>
<td>Business Analytics (Sp)</td>
<td>3</td>
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<tr>
<td>ECON 5243</td>
<td>Economics of Supply Chain &amp; Retail (Sp)</td>
<td>3</td>
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<tr>
<td>MBAD 5511</td>
<td>Professional Development -- Special Topics In Business (Sp, Fa)</td>
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<th>Summer</th>
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<tr>
<td>MBAD 535V</td>
<td>MBA Internship (Su)</td>
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<tr>
<td>or MBAD 536V</td>
<td>Study Abroad-Special Problems (Su)</td>
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<tr>
<td>MGMT 5223</td>
<td>Managing &amp; Leading Organizations (Fa)</td>
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<tr>
<td>ACCT 5223</td>
<td>Accounting for Supply Chain &amp; Retail Organizations (Fa)</td>
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<td>MBAD 5241</td>
<td>Ethical Decision Making (Fa)</td>
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<td>MBAD 5511</td>
<td>Professional Development -- Special Topics In Business (Sp, Fa)</td>
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<tr>
<td>MBAD 5511</td>
<td>Professional Development -- Special Topics In Business (Sp, Fa)</td>
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<tr>
<td>Career Track Course</td>
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<th>Spring II</th>
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<tr>
<td>MGMT 5313</td>
<td>Strategic Management (Su)</td>
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<td>ISYS 5433</td>
<td>Enterprise Systems (Sp)</td>
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<td>MBAD 5413</td>
<td>Partnering Project (Irregular) (or a 4th graduate business elective)</td>
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<td>MBAD 5511</td>
<td>Professional Development -- Special Topics In Business (Sp, Fa)</td>
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<tr>
<td>MBAD 5511</td>
<td>Professional Development -- Special Topics In Business (Sp, Fa)</td>
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<td>Career Track Course</td>
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Full-time M.B.A. Defined Career Tracks

Retail Marketing Management

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<tr>
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<tbody>
<tr>
<td>MKTG 5553</td>
<td>Shopper, Buyer, and Consumer Behavior (Fa)</td>
<td>3</td>
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<tr>
<td>MKTG 5433</td>
<td>Consumer and Market Research (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 5333</td>
<td>Retailing Strategy and Processes (Sp)</td>
<td>3</td>
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</table>

Supply Chain Management

| SCMT 5653           | Global Logistics and Supply Management (Irregular) | 3 |

| SCMT 5643           | Transportation Strategies in the Supply Chain (Fa) | 3 |
| SCMT 5673           | Modeling Retail & Consumer Products Logistics (Irregular) | 3 |

Financial Management

| FINN 5443          | Retail Finance (Sp) | 3 |
| FINN 5333          | Investment Theory and Management (Fa) | 3 |
| FINN 541V          | Shollmier Investment Project (Sp, Fa) | 1-3 |

Entrepreneurship & Innovation

| MGMT 5323          | New Venture Development (Fa) | 3 |
| MGMT 5363          | Innovation & Creativity (Sp) | 3 |
| MKTG 5433          | Consumer and Market Research (Fa) | 3 |
| or WCOB 510V       | Special Topics in Business (Irregular) |                |

Executive M.B.A. Program:

Pre-Fall

| MGMT 5602          | Introduction to Strategy (Fa) | 2 |

Fall

| SCMT 5133          | Quantitative Methods and Decision Making (Fa) | 3 |
| MKTG 5223          | Marketing (Fa) | 3 |

Spring

| ECON 5253          | Economics of Management and Strategy (Irregular) | 3 |
| FINN 5113          | Corporate Financial Management (Sp) | 3 |

Summer

| MGMT/ECON 5373     | Global Business (Su) | 3 |
| ACCT 5263          | Financial Statement Analysis for Executives (Su) | 3 |

Fall

| SCMT 5663          | Supply Chain Management (Fa) | 3 |
| ISYS 5603          | Analytics and Visualization (Fa) | 3 |

Spring

| Focused Study Area Course |                |                |
| Focused Study Area Course |                |                |

Summer

| MGMT 5313          | Strategic Management (Su) | 3 |
| MGMT 5613          | Leadership and Organizational Behavior (Not available until fall 2016) | 3 |

Executive M.B.A. Program Focused Study Areas

Retail

| MKTG 5223          | Marketing (Fa) (Also in Core) | 3 |
| MKTG 5563          | Contemporary Topics in Retail (Not available until fall 2016) | 3 |

Choose ONE from the following:

| SCMT 5683          | Supply Chain Management in Global Business (Sp) | 3 |
| SCMT 5693          | Predictive Supply Chain Analytics (Fa) | 3 |
| ISYS 5833          | Data Management Systems (Sp, Fa) | 3 |
| ISYS 5843          | Seminar in Business Intelligence and Knowledge Management (Sp, Fa) | 3 |

Supply Chain

| SCMT 5663          | Supply Chain Management (Fa) (Also in Core) | 3 |
| SCMT 5683          | Supply Chain Management in Global Business (Sp) | 3 |
Public Service (M.P.S.) degrees may pursue both degrees concurrently.

Administration (M.B.A.) and the Clinton School of Public Service Master of Public Service (M.P.S.) programs concurrently must file a degree plan for both degrees and obtain prior approval to take courses to be used for reciprocal credit. Interested students should obtain applications from both the Walton College Graduate School of Business and the Clinton School of Public Service.

**Graduate Certificate in Entrepreneurship**

The Graduate Certificate in Entrepreneurship is designed to give non-business graduate students a foundation in the core aspects of entrepreneurship they will need to start successful enterprises, to create and promote new products or service offerings in existing organizations, or to engage in social entrepreneurship. The Certificate program is open to all non-business graduate students at the University of Arkansas, and graduate students from all majors are encouraged to participate. Students who complete the Graduate Certificate in Entrepreneurship will have explored the context, tools, and processes of entrepreneurial activity and will have learned how to apply them to commercial and non-commercial enterprises.

**Admission Requirements:** The Graduate Certificate in Entrepreneurship is open to all non-business graduate students who are in good standing with the graduate school at their campus. Students must apply and be admitted to the Graduate School of Business. Information regarding Graduate School of Business admission requirements can be found earlier in this chapter.

**Requirements for the Graduate Certificate in Entrepreneurship: (12 hours)**

To receive the Graduate Certificate in Entrepreneurship, students are required to take 9 hours of coursework in the Walton College of Business and 3 hours of electives related to entrepreneurship in either the Walton College or in another college at the University of Arkansas. Elective courses other than those listed below may be approved by the Director of the Certificate program. Some elective courses have prerequisites that are not met by courses in the certificate program. Students are advised to check prerequisites prior to enrolling in a course.

**Course List**

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 5213</td>
<td>Business Foundations for Entrepreneurs (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 5323</td>
<td>New Venture Development (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>MBAD 5413</td>
<td>Partnering Project (Irregular)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Course**

Select one of the following:

**Dale Bumpers College of Agricultural, Food, and Life Sciences**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 5143</td>
<td>Financial Management in Agriculture (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 5413</td>
<td>Agribusiness Strategy (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>HESC 4463</td>
<td>Administration and Leadership in the Helping Professions (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

**J. William Fulbright College of Arts & Sciences**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 493V</td>
<td>Fine Arts Gallery Internship (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 494V</td>
<td>Graphic Design Internship (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>COMM 5403</td>
<td>Organizational Communication Theory (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>COMM 5423</td>
<td>Seminar in Mass Media Cognition (Even years, Sp)</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 5063</td>
<td>Issues in Advertising and Public Relations (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

**M.B.A./J.D. Program**

For students interested in obtaining both the M.B.A. and J.D. (law) degrees, the M.B.A./J.D. dual degree program is available. This program allows the student to receive both the M.B.A. degree and the J.D. degree. The program requires separate application and admission to both the School of Law and the Graduate School of Business and the M.B.A. degree program. Students participating in the M.B.A./J.D. program must file a degree plan for both degrees and obtain approval prior to taking elective courses to be used for reciprocal credit. Interested students should obtain bulletins and applications from both the School of Law and the Graduate School of Business. If the student is accepted into both programs, a maximum of six hours of approved upper-level elective law courses may be used as duplicate credit toward the M.B.A. degree and a maximum of six hours of approved graduate courses in business administration may be used as duplicate credit toward the J.D. degree, thus reducing the total time necessary for completion of the degrees.

**M.B.A./M.P.S. Concurrent Degrees**

Students interested in obtaining both the Master of Business Administration (M.B.A.) and the Clinton School of Public Service Master of Public Service (M.P.S.) degrees may pursue both degrees concurrently.

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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 5313</td>
<td>Strategic Management (Su) (Also in Core)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 5323</td>
<td>New Venture Development (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>MBAD 5413</td>
<td>Partnering Project (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>FINN 5113</td>
<td>Corporate Financial Management (Sp) (Also in Core)</td>
<td>3</td>
</tr>
<tr>
<td>FINN 5333</td>
<td>Investment Theory and Management (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>FINN 5303</td>
<td>Advanced Corporate Financial Management (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>SCMT 5133</td>
<td>Quantitative Methods and Decision Making (Fa) (Also in Core)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5833</td>
<td>Data Management Systems (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5843</td>
<td>Seminar in Business Intelligence and Knowledge Management (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 5263</td>
<td>Financial Statement Analysis for Executives (Su)</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 5223</td>
<td>Marketing (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>SCMT 5663</td>
<td>Supply Chain Management (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 5313</td>
<td>Strategic Management (Su)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 5363</td>
<td>Innovation &amp; Creativity (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>MBAD 5433</td>
<td>Capstone Project (Su)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 5373</td>
<td>Global Business (Su)</td>
<td>3</td>
</tr>
</tbody>
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**Executive M.B.A. Program delivered in Panama City, Panama**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MGMT 5602</td>
<td>Introduction to Strategy (Fa)</td>
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<tr>
<td>MBAD 5613</td>
<td>Financial Accounting (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>SCMT 5133</td>
<td>Quantitative Methods and Decision Making (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 5253</td>
<td>Economics of Management and Strategy (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>FINN 5113</td>
<td>Corporate Financial Management (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 5613</td>
<td>Leadership and Organizational Behavior (Not available until fall 2016)</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 5263</td>
<td>Financial Statement Analysis for Executives (Su)</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 5223</td>
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<td>Global Business (Su)</td>
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**Course List**

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<th>Course</th>
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</thead>
<tbody>
<tr>
<td>SCMT 5693</td>
<td>Predictive Supply Chain Analytics (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 5313</td>
<td>Strategic Management (Su) (Also in Core)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 5323</td>
<td>New Venture Development (Fa)</td>
<td>3</td>
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<td>MBAD 5413</td>
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<td>FINN 5303</td>
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<tr>
<td>SCMT 5133</td>
<td>Quantitative Methods and Decision Making (Fa) (Also in Core)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5833</td>
<td>Data Management Systems (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5843</td>
<td>Seminar in Business Intelligence and Knowledge Management (Sp, Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>
Graduate Certificate in Business

The Graduate Certificate in Business is designed to give non-business graduate students a foundation in the core aspects of business they will need to start successful commercial or non-commercial enterprises or assist in creating new products or service offerings in existing organizations. The certificate program is open to all non-business graduate students throughout the University of Arkansas, and students from all majors are encouraged to participate. Ideally, these students will be well-positioned to create knowledge-based, high-growth start-ups or assist existing companies in developing successful new products and services. Both of these goals will contribute to the economic development of the state of Arkansas.

Admission Requirements: The Graduate Certificate in Business is open to all non-business degree-seeking graduate students who are in good standing with the graduate school and admitted to the graduate school of business. Information on graduate school of business admission requirements can be found in the admissions portion of the Graduate catalog.

Requirements for the Graduate Certificate in Business: (15 hours) To receive the Graduate Certificate in Business, students are required to take 9 hours of coursework in the Walton College of Business and 6 hours of electives related to business in either the Walton College or in another college at the University of Arkansas. Elective courses other than those listed below may be approved by the Director of the Certificate program. Some elective courses have prerequisites that are not met by courses in the certificate program. Students are advised to check prerequisites prior to enrolling in a course. To receive the graduate Certificate in Business, students are required to take 15 hours as follows:

Course List

Required Courses (no prerequisites)

MGMT 5213 Business Foundations for Entrepreneurs (Sp) 3

Choose one of the following classes (one course with prerequisites):

MGMT 5323 New Venture Development (Fa) 3
MGMT 5223 Managing & Leading Organizations (Fa) 3
MGMT 5363 Innovation & Creativity (Sp) 3
MGMT 5313 Strategic Management (Su) (prerequisite – instructor consent) 3

Choose one of the following classes (no prerequisites):

ACCT 5223 Accounting for Supply Chain & Retail Organizations (Fa) 3
ECON 5243 Economics of Supply Chain & Retail (Sp) 3
FINN 5223 Financial Markets & Valuation (Sp) 3
MKTG 5103 Retail Consumer Marketing (Sp) 3
SCMT 5633 Retail and Consumer Products Supply Chain Management (Sp) 3
ISYS 5213 ERP Fundamentals (Su, Fa) 3

Dale Bumpers College of Agricultural, Food, and Life Sciences

AGEC 5303 Agricultural Marketing Theory (Fa) 3
AGEC 5143 Financial Management in Agriculture (Fa) 3
AGEC 5413 Agribusiness Strategy (Sp) 3
AMPD 5033 Issues and Trends in Textile Studies (Odd years, Sp) 3
AMPD 5043 Theories and Practices in Apparel Merchandising (Even years, Sp) 3

J. William Fulbright College of Arts & Sciences

COMM 5403 Organizational Communication Theory (Irregular) 3
COMM 5423 Seminar in Mass Media Cognition (Even years, Sp) 3
JOUR 5063 Issues in Advertising and Public Relations (Fa) 3

College of Education and Health Professions

RESM 5463 Sports Facilities Management (Su) 3
RESM 5843 Tourism (Sp) 3

College of Engineering

INEG 4433 Systems Engineering and Management (Fa) 3
INEG 4443 Project Management (Irregular) 3
INEG 5623 Analysis of Inventory Systems (Irregular) 3
MEPH 5383 Research Commercialization and Product Development (Sp) 3
MEPH 5821 Ethics for Scientists and Engineers (Su) 3
MEPH 5832 Proposal Writing and Management (Su) 3

Graduate Certificate in Business
comprehensive examination. Below, all degree candidates must successfully complete a written education courses. In addition to the program requirements listed must complete nine hours of core courses and 24 hours of professional education (Minimum 33 hours) Requirements for the Master of Education Degree: Praxis II: Content and a successful interview by CATE faculty. prescribed by the program area are: passing scores for Praxis I and technology education) or in a related field. Additional prerequisites needs of current professionals in the field who desire to attain further obtaining Arkansas teacher licensure. Option 2 is designed to meet the is available for students who possess a bachelor's degree in business, family and consumer sciences, or technology education or a related field in any of those areas. Candidates may choose one of two options. Option 1 is designed for the candidate who has a bachelor's degree in a related field in career and technical education and is interested in obtaining Arkansas teacher licensure. Option 2 is designed to meet the needs of current professionals in the field who desire to attain further education and an advanced degree in career and technical education.

Prerequisites to the Master of Education Degree:
For acceptance to the master's degree program in career and technical education, the candidate must meet all general requirements of the Graduate School, an undergraduate program in career and technical education (business education, family and consumer science education, technology education) or in a related field. Additional prerequisites prescribed by the program area are: passing scores for Praxis I and Praxis II: Content and a successful interview by CATE faculty.

Requirements for the Master of Education Degree: (Minimum 33 hours) Candidates for the master's degree in career and technical education must complete nine hours of core courses and 24 hours of professional education courses. In addition to the program requirements listed below, all degree candidates must successfully complete a written comprehensive examination.

Required Core Courses
Choose one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEPH 5383</td>
<td>Research Commercialization and Product Development (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>MEPH 5821</td>
<td>Ethics for Scientists and Engineers (Su)</td>
<td>1</td>
</tr>
<tr>
<td>MEPH 5832</td>
<td>Proposal Writing and Management (Su)</td>
<td>2</td>
</tr>
</tbody>
</table>

Career and Technical Education (CATE)

Faculty
Vinson R. Carter, Assistant Professor
Michael Daugherty, Professor
Betsy Orr, Associate Professor

Betsy Orr
Program Coordinator
315 Peabody Hall
479-575-6430
E-mail: borr@uark.edu (wavering@uark.edu)

http://cied.uark.edu/6949.htm

See Curriculum and Instruction (http://catalogofstudies.uark.edu/4076.php) for full departmental faculty listing.

Degrees Conferred:
M.Ed. in Career and Technical Education (CATE)

Master of Education in Career and Technical Education
The degree of Master of Education in Career and Technical Education is available for students who possess a bachelor's degree in business, family and consumer sciences, or technology education or a related field in any of those areas. Candidates may choose one of two options. Option 1 is designed for the candidate who has a bachelor's degree in a related field in career and technical education and is interested in obtaining Arkansas teacher licensure. Option 2 is designed to meet the needs of current professionals in the field who desire to attain further education and an advanced degree in career and technical education.

Prerequisites to the Master of Education Degree:
For acceptance to the master's degree program in career and technical education, the candidate must meet all general requirements of the Graduate School, an undergraduate program in career and technical education (business education, family and consumer science education, technology education) or in a related field. Additional prerequisites prescribed by the program area are: passing scores for Praxis I and Praxis II: Content and a successful interview by CATE faculty.

Requirements for the Master of Education Degree: (Minimum 33 hours)
Candidates for the master's degree in career and technical education must complete nine hours of core courses and 24 hours of professional education courses. In addition to the program requirements listed below, all degree candidates must successfully complete a written comprehensive examination.

Required Core Courses
Choose one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEPH 5383</td>
<td>Research Commercialization and Product Development (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>MEPH 5821</td>
<td>Ethics for Scientists and Engineers (Su)</td>
<td>1</td>
</tr>
<tr>
<td>MEPH 5832</td>
<td>Proposal Writing and Management (Su)</td>
<td>2</td>
</tr>
</tbody>
</table>

Cell and Molecular Biology (CEMB)

Faculty
Paul D. Adams, Associate Professor
Andrew James Alversen, Assistant Professor
Nick Anthony, Professor
Ravi Damodar Barabote, Assistant Professor
Jamie L. Baum, Assistant Professor
Robert R. Beitle Jr., Professor
Burt H. Bluhm, Associate Professor
Walter G. Bottje, Professor
Nilda Roma Burgos, Professor
Jingyi Chen, Associate Professor
Jim Correll, Professor
Dan Donoghue, Professor
Marlis R. Douglas, Associate Professor, Bruker Life Sciences Chair
Michael Edward Douglas, Professor, 21st Century Chair in Global Change Biology
Ashley Patrick Gregg Dowling, Associate Professor
Yuchun Du, Associate Professor
Jeannine M. Durdik, Professor
Gisela F. Erf, Professor, Avian Immunology Professorship
William J. Etges, Professor
Timothy A. Evans, Assistant Professor
Ingrid Fritsch, Professor
Robyn Goforth, Research Assistant Professor
Fiona Goggin, Professor
Billy M. Hargis, Professor, Sustainable Poultry Health Chair
Ralph Leroy Henry, Distinguished Professor, W.M. Keck Endowed Professorship
Areas of Concentration: Graduate studies may be pursued in any area of cell or molecular biology, including the study of various aspects of cell function, structure, metabolism, and chemical functions on, within, and between cells; the study of biomolecular interactions; the relationships between biomolecular reactions and observed cellular properties; molecular genetics, protein chemistry, biological structures; as well as the use of molecular detection methods to detect or characterize biological states in prokaryotes, eukaryotes, systematics, forensics, or health care.

Admission to Degree Program: All applicants must have a B.A. or B.S. in a basic or applied science. Applicants must present Graduate Record Examination scores for the Verbal and Quantitative tests, and the GRE writing instrument. For admission, a student must have a sponsoring faculty member. The sponsoring faculty member will submit probable thesis subjects to the Program Committee prior to acceptance of the student. Once an applicant has been approved by the Program Committee, applications are forwarded to the Graduate School for application for admission to the Graduate School. Admitted and sponsored students will be responsible for the Graduate School’s application fee unless paid by the department of the sponsoring faculty member. When deemed appropriate by the Director and Program Advisory Committee, the Cell and Molecular Biology program will allow a qualified applicant to be admitted to complete research rotations through up to three designated research laboratories during his/her first semester enrolled in the Cell and Molecular Biology graduate program. Admission for research rotations is contingent upon: 1) Stipend support has been guaranteed for the student during the rotation semesters; and 2) the Cell and Molecular Biology faculty designated for the rotation have agreed to host the student during this period. After the rotation period, the student must obtain a faculty research sponsor.

Requirements for the Master of Science Degree: For the M.S. degree, the Graduate School and/or the program requires 30 semester hours, a comprehensive examination, a cumulative GPA of 3.00, and a minimum residence of 30 weeks. Any student who receives a grade of “F” in any graduate-level course will be subject to dismissal following review by the Program Advisory Committee. All candidates for the M.S. must complete a minimum of 24 hours of post-baccalaureate graduate credits not including seminar and thesis credit hours (18 hours plus CHEM 5813 and CHEM 5843) in Cell and Molecular Biology-approved courses and 6 hours of thesis research. In addition, all candidates who are considered full-time must enroll every fall and spring semester in a Cell and Molecular Biology designated seminar course. Graduate advisory and thesis committees will consist of at least three program faculty representing at least two different departments. With the approval of the student’s Graduate Advisory Committee, up to 6 hours of alternative graduate courses may be used to satisfy the 24 hours of course work. All M.S. candidates must complete a thesis based on their research and pass a comprehensive oral examination based on the thesis. Examination and approval of the thesis is by the student’s Graduate Thesis Committee. Just prior to the Final Examination, the M.S. candidate will present a public seminar announced to all Cell and Molecular Biology faculty and students.
Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

**Requirements for the Doctor of Philosophy Degree:** Candidates for the Ph.D. must complete 18 hours of dissertation research. Students wishing to bypass the M.S. for a Ph.D. must complete a minimum of 24 hours of course work in Cell and Molecular Biology approved course work and a minimum of 18 hours of dissertation research. In addition, all candidates who are considered full-time must enroll every fall and spring semester in a Cell and Molecular Biology designated seminar course. Graduate advisory and dissertation committees will consist of at least four program faculty representing at least two different departments. With the approval of the student’s Graduate Advisory Committee, up to 6 hours of alternative graduate courses may be used to satisfy the 24 hours of course work. Any student who receives a grade of “D” or “F” in any graduate-level course will be subject to dismissal following review by the Program Advisory Committee. Any student receiving more than two grades of “C” in courses of two or more credit hours is no longer eligible for the Ph.D., but may elect to complete an M.S. degree in the program.

Candidates for the Ph.D. who do not meet the requirement for proficiency in spoken English at the time of admission must demonstrate proficiency in spoken English through a university-accepted examination prior to their candidacy exam. English proficiency courses are available at the University of Arkansas to help in this effort. Meeting this language requirement will not only prepare candidates for communication in oral examinations, research groups, national meetings, and interviews, but will also (in conjunction with the written language evaluation) enable students to serve as teaching assistants, providing an alternative mechanism for support in the event that other support is unavailable.

All Ph.D. students must complete the Candidacy Examination. The Candidacy Examination for the Ph.D. will consist of the writing of an original research proposal using the guidelines for a federally funded post-doctoral fellowship (e.g., NIH, NSF, USDA) and an oral examination over the proposal, related subjects, and general knowledge. The written and oral portions of the candidacy examination must be completed within the Ph.D. candidate’s first two calendar years in this program.

Students in the Ph.D. track will, in collaboration with their Graduate Advisory Committee, select a topic and format for their research proposal within the first year in the program. The proposal topic is to be within the field of Cell and Molecular Biology but on a subject distinct from the student’s Ph.D. research. The written proposal is submitted to the student’s Graduate Advisory Committee for evaluation and approval or rejection. Students may submit the proposal more than once. Upon completion of an approved proposal the candidate must then pass an oral examination by the student’s Graduate Advisory Committee covering the proposal, related subjects as determined by the examining committee, and general knowledge relevant to research in Cell and Molecular Biology.

Only upon satisfactory completion of the proposal and oral examination, as judged by the student’s Graduate Advisory Committee, does a student become a candidate for the Ph.D. Students who fail to complete the candidacy examination in the allotted time will be dropped from the Ph.D. program but may choose to become candidates for the M.S. The Ph.D. is granted not only for fulfillment of technical requirements but also for development and possession of critical and creative thought abilities in the areas of Cell and Molecular Biology. Evidence of these abilities is given through the completion of a dissertation. The student’s Graduate Dissertation Committee will evaluate the dissertation and conduct an oral Final Examination of the candidate over the dissertation and any other subject matter deemed appropriate by the committee. Administration of the final oral defense will follow the Graduate School guidelines outlined in the Graduate Catalog. Just prior to the Final Examination, the Ph.D. candidate will present a public seminar announced to all CEMB faculty and students.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

**Chemical Engineering (CHEG)**

**Faculty**

- Michael D. Ackerson, Associate Professor
- Robert Earl Babcock, Professor
- Robert R. Beitle Jr., Professor
- Ed Clausen, Professor, Ralph E. Martin Leadership Chair in Chemical Engineering
- Peter Czermak, Adjunct Professor
- Jerry A. Havens, Distinguished Professor
- Jeremy J. Herman, Clinical Assistant Professor
- Christa Hestekin, Associate Professor, Ansel and Virginia Condray Endowed Professorship in Chemical Engineering
- Jamie A. Hestekin, Associate Professor, Jim L. Turpin Professorship in Chemical Engineering
- Donald K. Roper, Associate Professor, Charles W. Oxford Professorship in Emerging Technologies
- Shannon Servoss, Associate Professor, Ralph E. Martin Professorship in Chemical Engineering
- Tom O. Spicer III, Professor, Maurice E. Barker Chair in Chemical Engineering
- Greg Thoma, Professor, Bates Teaching Professorship in Chemical Engineering
- Heather L. Walker, Clinical Assistant Professor
- Ranil Wickramasinghe, Professor, Ross E. Martin Chair in Emerging Technologies
- Ed Clausen
  - Professor and Interim Department Head
  - 3202 Bell Engineering Center
  - 479-575-5608
  - Email: eclause@uark.edu

- Christa N. Hestekin
  - Graduate Coordinator
  - 3202 Bell Engineering Center
  - 479-575-3416
  - Email: chesteki@uark.edu

- http://www.cheg.uark.edu/

**Degrees Conferred:**

- M.S.Ch.E. (CHEG)
- Ph.D. in Engineering (ENGR) (See Engineering (p. 103))

The goal of the graduate program in the Ralph E. Martin Department of Chemical Engineering is to prepare the student for advanced roles in the profession through a combination of planned course work, research activities, examinations for Ph.D. candidacy, and seminar participation. The graduate degree is not intended to be restrictive by forcing the student to specialize, but will broaden the graduate’s intellectual abilities and enhance opportunities in research, teaching, management, and general engineering practice. The student’s goals for pursuing an advanced degree, including preferences for a research topic, are given
primary consideration in the preparation of the course of study. The student’s advisory committee will assist in the definition of a diversified program to ensure competence as a practicing engineer.

**Primary Areas of Faculty Research:** Biological systems and food science; biomaterials; Chemical Hazards Research Center; chemical process safety; fate of pollutants in the environment; Integrated Petroleum Environmental Consortium; material science for microelectronics; chemical and biochemical separations; mixing in chemical processes; petroleum processing; space sciences; supercritical fluids; and life cycle analysis.

**Admission to the Degree Program:** The specific requirements for admission to the program and completion of an advanced degree in chemical engineering are determined by the Graduate School of the University of Arkansas and the Graduate Studies Committee of the Ralph E. Martin Department of Chemical Engineering. A general summary of departmental requirements is given below and detailed information may be obtained from the Chemical Engineering website (http://cheg.uark.edu/graduate.php).

An undergraduate or M.S. degree in chemical engineering is recommended for admission to the graduate program, but students with a B.S. in another field of engineering or in a natural science may also enter the program by first taking certain undergraduate chemical engineering courses to prepare them for graduate study. The requirements for admission to the department’s graduate program are:

- A grade point average of 3.0 out of 4.0 in a B.S. or M.S. in chemical engineering or, if the student does not have a degree in chemical engineering, satisfactory completion of the department’s undergraduate deficiency program.
- A minimum GRE score of 155 on the quantitative section of the exam and a minimum of 307 combined score on the quantitative and verbal sections, taken within five years prior to application.
- Students without a B.S. degree from a U.S. university will need a minimum score on one of the following English proficiency exams: TOEFL paper exam – 550; iBT computer exam – 80; or IELTS – 6.5. The test must have been taken within two years prior to application.
- To enter the Ph.D. program, a majority vote by the Graduate Studies Committee of the Ralph E. Martin Department of Chemical Engineering is required.

Financial aid may be available for the student’s stipend and/or tuition on a case-by-case basis. This is decided in the department.

Details about these requirements are in the Chemical Engineering Department Graduate Student Handbook, available as a downloadable PDF (http://cheg.uark.edu/Grad_Student_Handbook.pdf).

**Research Program:** The thesis M.S. degree and the Ph.D. degree involve an interactive, hands-on program that exposes the graduate student to the techniques, procedures, and philosophy necessary for successful and ethical research. The students will work closely with their supervising professor and committee to perform original research on a topic of importance to the profession. The student will participate in the planning, managerial, budgetary, experimental, and reporting aspects of his/her research projects. The result will be a thesis (for the thesis master’s degree) or a dissertation (for the Ph.D.), both of which should result in at least one journal or conference publication for the student. Active research interests of the faculty are listed on the department’s research page (http://cheg.uark.edu/research.php).

**Requirements for the non-thesis M.S. Degree:** At least 30 hours of course work as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 4423</td>
<td>Introduction to Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>CHEG 5113</td>
<td>Transport Processes I (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CHEG 5133</td>
<td>Advanced Reactor Design (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>CHEG 5333</td>
<td>Advanced Thermodynamics (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CHEG 6123</td>
<td>Transport Processes II (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>Nine hours of a 4000 or 5000 level CHEG course</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Six hours of any 4000, 5000 or 6000 level technical electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>CHEG 5801</td>
<td>Graduate Seminar (Sp, Fa) (this should be taken</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>every semester)</td>
<td></td>
</tr>
</tbody>
</table>

Assisting in departmental teaching is required.

**Total Hours** 31

1. Because this is an undergraduate course, additional work will be required by the instructor for graduate credit. In addition to this course, the non-thesis student will be able to present only three more hours of 3000-level credit for the degree, with the permission of the advisory committee.

2. Not to exceed 3 hours of 4000 level credit. These electives must be lecture courses, not a special project, seminar or independent research topic.

3. Not to exceed 3 hours of 4000 level credit. These electives must be lecture courses, not a special project, seminar or independent research topic.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

**Requirements for the thesis M.S. Degree:** At least 24 hours of course work and six hours of thesis as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 4423</td>
<td>Introduction to Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>CHEG 5113</td>
<td>Transport Processes I (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>CHEG 5133</td>
<td>Advanced Reactor Design (Sp)</td>
<td></td>
</tr>
<tr>
<td>CHEG 5333</td>
<td>Advanced Thermodynamics (Fa)</td>
<td></td>
</tr>
<tr>
<td>CHEG 6123</td>
<td>Transport Processes II (Sp)</td>
<td></td>
</tr>
<tr>
<td>Six hours of a 4000 or 5000 level CHEG course</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Six hours of any 4000, 5000 or 6000 level technical electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>CHEG 600V</td>
<td>Master’s Thesis (Sp, Su, Fa)</td>
<td>6</td>
</tr>
<tr>
<td>CHEG 5801</td>
<td>Graduate Seminar (Sp, Fa) (this should be taken</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>every semester)</td>
<td></td>
</tr>
</tbody>
</table>

Research resulting in a successfully defended thesis and assisting in departmental teaching are required.

**Total Hours** 31

1. Because this is an undergraduate course, additional work will be required by the instructor for graduate credit. The thesis student will not be able to present any additional hours of 3000 level credit for the degree.

2. Not to exceed 3 hours of 4000 level credit. These electives must be lecture courses, not a special project, seminar or independent research topic.
The electives must be lecture courses, not a special project, seminar or independent research topic.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

### Requirements for the Ph.D. Degree

At least 42 hours of course work and 30 hours of dissertation as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 4423</td>
<td>Introduction to Partial Differential Equations (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CHEG 5113</td>
<td>Transport Processes I (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CHEG 5133</td>
<td>Advanced Reactor Design (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>CHEG 5333</td>
<td>Advanced Thermodynamics (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CHEG 6123</td>
<td>Transport Processes II (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>6 hours of a 4000 or 5000 level CHEG course</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>18 hours of any 4000, 5000 or 6000 level technical electives</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>CHEG 5801</td>
<td>Graduate Seminar (Sp, Fa) (this should be taken every semester)</td>
<td>3</td>
</tr>
<tr>
<td>CHEG 700V</td>
<td>Doctoral Dissertation (Sp, Su, Fa)</td>
<td>30</td>
</tr>
</tbody>
</table>

Research resulting in successfully defended dissertation and assisting in departmental teaching are required.

**Total Hours:** 72

1. Because this is an undergraduate course, additional work will be required by the instructor for graduate credit.
2. International students must take CHEG 4443 in addition to the above list.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

## Chemistry and Biochemistry (CHBC)

### Faculty

- **Paul D. Adams**, Associate Professor
- **Neil T. Allison**, Associate Professor
- **Lorraine C. Brewer**, Instructor
- **Jingyi Chen**, Associate Professor
- **Robert Coridan**, Assistant Professor
- **Chenguang Fan**, Assistant Professor
- **Ingrid Fritsch**, Professor
- **Denise A. Greathouse**, Research Associate Professor
- **Colin David Heyes**, Associate Professor
- **Stefan M. Kilyanek**, Assistant Professor
- **Roger E. Koeppel II**, Distinguished Professor
- **Jackson Lay Jr.**, Professor
- **Matt McIntosh**, Professor
- **Frank Millett**, Distinguished Professor
- **Mahmoud Moradi**, Assistant Professor
- **David W. Paul**, Associate Professor
- **Peter Pulay**, Distinguished Professor, Roger Bost Professor of Chemistry and Biochemistry
- **Joshua Sakon**, Professor
- **Wei Shi**, Assistant Professor
- **Julie A. Stenken**, Professor, 21st Century Chair of Proteomics
- **Wesley Stites**, Professor
- **Susanne Striegler**, Professor
- **Suresh Thallapuranam**, Professor
- **Ryan Tian**, Associate Professor
- **Feng Wang**, Associate Professor
- **Charles L. Wilkins**, Distinguished Professor
- **Jie Xiao**, Associate Professor, Arkansas Research Alliance Scholar
- **Nan Zheng**, Associate Professor

Wesley Stites  
Department Chair  
119 Chemistry Building  
479-575-4362  
E-mail: wstites@uark.edu

Julie Stenken  
Director of Graduate Studies  
119 Chemistry Building  
479-575-7945  
E-mail: jstenken@uark.edu

[chemistry.uark.edu](http://chemistry.uark.edu)

### Degrees Conferred:

- M.S., Ph.D. in Chemistry (CHEM)

### Areas of Study:

Analytical, inorganic, organic, physical, biophysical, and biochemistry.

### Primary Areas of Faculty Research:

Specialized centers complement traditional research areas in the Department of Chemistry and Biochemistry. These include the Center for Protein Structure and Function and the State-Wide Mass Spectrometry Facility.

### Admission to Graduate Program:

In addition to the application for admission to the Graduate School and the transcripts required for Graduate School admission, applicants for admission to the degree programs of the Department of Chemistry and Biochemistry must submit:

1. three letters of recommendation from persons familiar with the applicant’s previous academic and professional performance and b.) official scores from the Graduate Record Examination (General Test). Advanced subject GRE tests scores (Chemistry, Biochemistry, etc.) are encouraged but not required.

### Basic Program for Advanced Degree Candidates:

In addition to the material given below, the student is referred to the general Graduate School requirements mentioned earlier in this catalog and to the bulletin *Information for Graduate Students in Chemistry and Biochemistry* available from the Department of Chemistry and Biochemistry.

1. An undergraduate program, consisting of courses in general chemistry, analytical chemistry (two semesters), organic chemistry (three semesters), physical chemistry (two semesters), and inorganic chemistry (one semester) provide an adequate foundation for graduate work in chemistry and biochemistry. If a graduate student lacks any part of this introductory program, it must be completed within the first four semesters as a graduate student. If the student has the necessary prerequisites, courses for graduate credit may be taken concurrently. Proficiency in physical chemistry must be demonstrated by satisfactory performance on placement examinations. Inadequate performance may be remedied by enrollment in one or more recommended courses.

2. The department has no foreign language requirement for either the M.S. or Ph.D. degree.

3. Each advanced degree candidate must present a suitable program of advanced courses and research. The specific courses needed to
provide a basis for scholarly work beyond the B.S. level will vary with the student's undergraduate preparation, area of concentration and the degree sought. Individual course enrollments must be approved initially by the graduate adviser and subsequently by the student's advisory committee.

4. Every student must register for a minimum of one credit hour of CHEM 600V or CHEM 700V in each term during which the student is present and doing thesis or dissertation research. Post-candidacy doctoral students are required to be enrolled in at least one hour of dissertation credit (CHEM 700V) every semester (fall, spring, summer), until the degree is conferred.

Additional Requirement for Master of Science Degree: The Master of Science degree in Chemistry requires a minimum 24 hours of course work plus six hours of thesis. A thesis reporting original research will be required of all candidates for the Master of Science degree in chemistry.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Additional Requirements for the Doctor of Philosophy Degree: A doctoral advisory committee is appointed to evaluate the candidate's preparation and to draw up a suitable program of study and research. This committee consists of the student's major professor and at least three other members of the graduate faculty. Under most circumstances, the major professor serves as the chairperson of that committee.

For chemistry students, the candidacy examination is of the cumulative type. Five cumulative examinations are given each semester in each of the areas of concentration mentioned above. To complete the candidacy examination, seven of these cumulative examinations must be passed within a specified time, usually by the end of the fifth semester of graduate work.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Childhood Education (CHED)

Faculty

Jennifer G. Beasley, Assistant Professor
Deborah A. Brown, Clinical Assistant Professor
Linda Hale Eilers, Clinical Associate Professor
Angela Carlton Elsass, Clinical Assistant Professor
Marcia B. Imbeau, Professor
Grace R. Kerr, Clinical Instructor
Heather D. Kindall, Assistant Professor
Denise Ann Mounts, Clinical Assistant Professor
Cathy Wissehr, Clinical Assistant Professor

Heather Kindall
Program Coordinator
207 Peabody Hall
479-575-2516
E-mail: hkindall@uark.edu

The University of Arkansas offers the Bachelor of Science (B.S.E.) degree in Childhood Education and the Master of Arts in Teaching (M.A.T.) degree in Childhood Education. These combined degree programs are one of the options at the University of Arkansas, Fayetteville, that lead to initial teacher licensure in Childhood Education (Pre-Kindergarten through Grade 4). Students who obtain their B.S.E. degree from the University of Arkansas will have completed the prerequisite course requirements for entry into the M.A.T. program. Students who obtain a bachelor's degree from another university and/or in a program area other than Elementary Education must have their transcripts evaluated by a Childhood Education program adviser to determine what deficiencies must be met before they can be considered for admission into the M.A.T. program. The M.A.T. degree program is a 33-semester-hour program. To be recommended for licensure by the University of Arkansas, Fayetteville, campus, students must complete the M.A.T. degree program or the undergraduate Elementary Licensure program (see undergraduate catalog for more information). Students also choose either a sub-specialty area of English as a Second Language or STEM Education. A graduate certificate in STEM Education for Early Childhood (K-4) is also available.

Prerequisites to Degree Program

Enrollments will be limited in upper division professional studies courses in the Childhood Education B.S.E. Program. In addition, the number of students accepted into the M.A.T. Program in Childhood Education will be contingent upon availability of placements with partnership schools. Specific application procedures, screening, and selection criteria are in effect to limit course enrollments and acceptance to the M.A.T. program. Please contact your childhood education program faculty adviser for details regarding the selective admission process. Admission requirements for the M.A.T. degree program for initial certification are as follows:

1. Completion of an appropriate undergraduate degree program.
2. Cumulative GPA of 3.00, or 3.00 in the last 60 hours of the baccalaureate degree.
3. Admission to the Graduate School.
4. Screening/acceptance into internship, which includes an admission portfolio.
5. Admission to the Master of Arts in Teaching program.
6. Successful completion of the required criminal background check. Background check materials must be submitted by May 1st prior to the internship year.
7. Completion of the pre-education core with a minimum of "C" in all courses.
8. Completion of all prerequisite courses in teaching field.
9. Payment of internship fee.

Requirements for the Master of Arts in Teaching Degree

(Minimum 33 hours.)

English Second Language Focus Area (minimum 33 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIED 5003</td>
<td>Elementary Education Seminar (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 5013</td>
<td>Measurement, Research and Statistical Concepts in the Schools (Su)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 5022</td>
<td>Classroom Management Concepts (Fa)</td>
<td>2</td>
</tr>
<tr>
<td>CIED 5033</td>
<td>Curriculum Theory and Development for Educators (Su)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 5053</td>
<td>Multicultural Issues in Elementary Education (Odd years, Sp) (Su)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 5073</td>
<td>Action Research in Elementary Education (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 508V</td>
<td>Elementary Education Cohort Teaching Internship (Sp, Fa)</td>
<td>6</td>
</tr>
<tr>
<td>CIED 5162</td>
<td>Applied Practicum (Fa)</td>
<td>2</td>
</tr>
</tbody>
</table>
CIED 5173  Literacy Assessment and Intervention (Su, Fa)  3
CIED 5933  Second Language Methodologies (Fa)  3
CIED 5953  Second Language Assessment (Sp)  3

STEM Endorsement for P-4 Candidates (Minimum 33 hours)
CIED 5003  Elementary Education Seminar (Sp)  3
CIED 5013  Measurement, Research and Statistical Concepts in the Schools (Su)  3
CIED 5022  Classroom Management Concepts (Fa)  2
CIED 5033  Curriculum Theory and Development for Educators (Su)  3
CIED 5053  Multicultural Issues in Elementary Education (Odd years, Sp) (Su)  3
CIED 5073  Action Research in Elementary Education (Sp)  3
CIED 508V  Elementary Education Cohort Teaching Internship (Sp, Fa)  6
CIED 5162  Applied Practicum (Fa)  2
CIED 5173  Literacy Assessment and Intervention (Su, Fa)  3
STEM 5203  Problem-Based Mathematics (Irregular)  3
STEM 5213  Teaching Problem-Based Science in the Elementary Grades (Sp)  3

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

**Graduate Certificate in STEM Education for Early Childhood (K-4):**

Required courses:

- STEM 4033  Introduction to STEM Education (Sp, Su)  3
- STEM 5023  Creativity and Innovation in STEM (Su, Fa)  3
- CIED 5033  Curriculum Theory and Development for Educators (Su)  3
- STEM 5203  Problem-Based Mathematics (Irregular)  3
- STEM 5213  Teaching Problem-Based Science in the Elementary Grades (Sp)  3

In addition to the required courses, students will maintain a minimum 3.0 GPA; pass Praxis II; complete a year-long internship placement in a local school; and complete an action-research project.

**Civil Engineering (CVEG) Faculty**

Michelle Bernhardt, Assistant Professor
Andrew F. Braham, Assistant Professor
Rick Coffman, Associate Professor
Norman D. Dennis Jr., University Professor
Findlay Edwards, Associate Professor
Julian Fairey, Associate Professor
Eric Fernstrom, Instructor
J. L. Gattis II, Professor
Micah Hale, Professor
Kevin D. Hall, Professor, 21st Century Leadership Chair in Civil Engineering
Sarah Hernandez, Assistant Professor
Ernie Heymsfield, Associate Professor
Michael Johnson, Professor

R. Panneer Selvam, University Professor, James T. Womble Professor of Computational Mechanics and Nanotechnology Modeling
Rodney D. Williams, Assistant Professor
Stacy Goad Williams, Associate Professor
Clinton M. Wood, Assistant Professor
Wen Zhang, Assistant Professor

Kevin D. Hall
Department Head
4190 Bell Engineering Center
479-575-4954
E-mail: kdhall@uark.edu

http://cveg.uark.edu

**Degrees Conferred:**

M.S.C.E. in Civil Engineering (CVEG)
M.S.En.E. in Environmental Engineering (ENEG) (See Environmental Engineering)
Ph.D. in Engineering (ENGR) (See Engineering (p. 103))

The Master of Science in Civil Engineering program is intended primarily for students possessing the Bachelor of Science in Civil Engineering degree. Students with degrees from other engineering disciplines may be admitted to the program but will be required to complete some undergraduate civil engineering courses as preparation for their graduate studies. The specific courses required will depend on the emphasis of their graduate studies.

The objectives of the M.S.C.E. program are to provide a greater depth of understanding of civil engineering topics for the practice of engineering and to serve as preparation for doctoral studies. Students are allowed a great deal of flexibility in designing their course of study. Students desiring to develop a deeper understanding of one sub-discipline area may select courses solely concentrated in that area while those desiring a broader-based education may select courses from several sub-disciplines including courses from other disciplines.

**Primary Areas of Faculty Research:** The Department of Civil Engineering has ongoing research programs in the environmental/water resources, geotechnical, structural, and transportation areas. The following is a more detailed listing of topics currently being studied in each of these areas:

**Environmental/Water Resources Area:** Water and wastewater treatment; decentralized collection and treatment systems; soil and groundwater remediation; surface ground water quality; storm water pollution prevention; environmental and hydrologic modeling; water quality studies.

**Geotechnical Area:** Aggregates and base materials; geosynthetic reinforcement; embankment and slope stability; field instrumentation and measurement of soil properties; soil and groundwater remediation using geosynthetics; GIS application to geotechnical engineering; foundation design.

**Structural Area:** High performance concrete; structural materials; bridge deck rehabilitation; computational mechanics; computational wind engineering and tornado modeling; structural earthquake analysis and modeling; structural steel design and analysis.

**Transportation Area:** Facility design; roadway geometrics; traffic operations and safety; pavement design and rehabilitation; asphalt concrete mixture design; construction materials characterization;
construction quality control; geosynthetic reinforced flexible pavements; transportation management systems; high-speed pavement condition data acquisition; and transportation and land development.

In addition to these core areas, the Department of Civil Engineering is also actively pursuing research in the areas of alternative energy sources, infrastructure security, nanotechnology, and sustainability.

Requirements for the Master of Science in Civil Engineering Degree: Minimum 30 semester hours of graduate-level credit for thesis option; or 36 semester hours of graduate-level credit for course work only option.

1. Candidates for the degree who present a thesis are required to complete a minimum of 24 semester hours of course work and a minimum of six semester hours of thesis.

2. Candidates for the degree who do not present a thesis are required to complete a minimum of 36 semester hours of graduate-level course work.

3. Candidates for the degree must present a cumulative grade point average of 3.00 on all graduate courses. The minimum acceptable grade for any course is "C."

4. Upon admission to the Graduate School and acceptance in a program of study, candidates pursuing a thesis-based program will be assigned to a major adviser, who in consultation with the department head, will select a graduate committee. With guidance from the committee, the candidate will develop a plan of study and a research project to be completed by the candidate. The committee will serve as the examination committee for the final oral and/or written examination and for the thesis. Candidates pursuing a coursework-based program will be assigned to a major adviser, who will assist the candidate in developing a plan of study; the major adviser will coordinate the final and/or written examination.

5. All graduate students enrolled in the M.S.C.E. program in the Department of Civil Engineering must successfully complete one semester of CVEG 5100 Graduate Seminar in Civil Engineering.

Residents should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Requirements for the Doctor of Philosophy (Ph.D.) degree in Civil Engineering: Minimum 72 semester hours of graduate-level credit beyond the baccalaureate degree; minimum 42 semester hours of graduate-level credit beyond the master's degree.

1. Candidates for the degree are required to complete a minimum of 36 semester hours of graduate-level course work and a minimum of 18 semester hours of dissertation. Graduate-level course work comprising an earned master's degree may be included in the minimum course work credit hours for the Ph.D. degree.

2. Candidates for the degree must present a cumulative grade point average of 3.00 on all graduate courses. The minimum acceptable grade for any course is "C."

3. All graduate students enrolled in the Ph.D. program in the Department of Civil Engineering must successfully complete two semesters of CVEG 5100 Graduate Seminar in Civil Engineering.

Residents should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

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Clinton School of Public Service (UACS)

James L. "Skip" Rutherford
William J. Clinton Professor and Dean
Sturgis Hall, 1200 President Clinton Avenue
Little Rock, Arkansas 72201
Phone: 501-683-5200
Fax: 501-683-5210
E-mail: srutherford@clintonschool.uasys.edu

Susan A. Hoffpauir
Professor and Associate Dean
Sturgis Hall, 1200 President Clinton Avenue
Little Rock, Arkansas 72201
Phone: 501-683-5200
Fax: 501-683-5210
E-mail: sahoffpauir@clintonschool.uasys.edu

http://www.clintonschool.uasys.edu/

Degree Conferred:
Master of Public Service (M.P.S.)

The Master of Public Service degree is offered at the University of Arkansas Clinton School in Little Rock, Arkansas, in collaboration with the University of Arkansas, the University of Arkansas at Little Rock, and the University of Arkansas for Medical Sciences. For a description of the program, admission and degree requirements, please see the Clinton School's Web site at http://www.clintonschool.uasys.edu.

Graduate Certificate in Public Service

The Graduate Certificate in Public Service requires 13 hours of coursework:

<table>
<thead>
<tr>
<th>Courses required by Clinton School</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSPS 7333 Problem and Asset Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CSPS 7115 Leadership in Public Service</td>
<td>3</td>
</tr>
<tr>
<td>CSPS 7303 Communication Processes and Conflict Transformation</td>
<td>3</td>
</tr>
<tr>
<td>CSPS 7313 Dynamics of Social Change</td>
<td>3</td>
</tr>
<tr>
<td>CSPS 7201 Ethical, Normative, and Legal Dimensions of Leadership</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

Clinton School courses will be interactive, making extensive use of problem-based formats and employing instructional technology as needed. The classes will also have access to speakers and public leaders who visit the Clinton Presidential Library for special events.

Communication (COMM)

Faculty

Myria Allen, Professor
Trish Amason, Associate Professor
Robert M. Brady, Associate Professor
Peggy Lee Catron-Ping, Instructor
Lisa Corrigan, Associate Professor
Tom Frentz, Professor
Sophie H. Janicke, Visiting Assistant Professor
Lynn Meade, Instructor
J. Brian O'Loughlin, Visiting Assistant Professor
**Degree Conferred:**
M.A. (COMM)

**Areas of Study:** Communication with specific emphasis in civic engagement. Using communication people work together to identify and address matters of public concern, create more democratic organizations, participate in the political process, facilitate community involvement, and work together for the common good. Each student designs a specific curriculum of study in consultation with his or her major professor that focuses on one of the following areas of civic engagement:

- political
- organizational
- media
- community.

**Prerequisites to Degree Program:** A student entering graduate studies should have a minimum of 24 semester hours in undergraduate credit within the area of communication or closely related studies. Prospective students must supply: 1) three letters of recommendation (preferably from professors who can comment on their ability to do graduate-level work) and 2) their GRE examination scores through the Graduate School application portal. They must send 3) an essay-length writing sample (preferably an essay or research paper written for a class) and 4) a statement of their goals for graduate study in Communication at the University of Arkansas directly to the Communication Department’s Graduate Coordinator.

**Requirements for a Master of Arts Degree:** A minimum of 30 semester hours in graduate-level courses plus the capstone course (3 hours) or 27 hours of course work and a thesis (6 hours). The following departmental requirements must be met by students pursuing the M.A. in Communication:

1. Completion of the COMM 5163 Introduction to Communication Paradigms (Fa) during their first semester of resident graduate study in which it is offered.
2. Two graduate courses in communication research methods taken in their first year of graduate study and selected from the following: COMM 5173 Qualitative Methods in Communication (Sp), COMM 5123 Quantitative Research Methods in Communication (Fa), or COMM 5183 Interpretive Research Methods in Communication (Sp).
3. Either three hours of capstone project credit (COMM 5923 Capstone Course in Communication (Sp, Su, Fa)) or six hours of thesis credit (COMM 600V Master's Thesis (Sp, Fa)). Each student must complete and successfully defend either a capstone project or an M.A. thesis.
4. In addition to the Paradigms class, the two required methods courses, and the selected exit option (i.e., thesis or capstone course), at least four three-hour 5000-level courses must be completed in the Department of Communication. At least three of these courses should be in one focal area of civic engagement.
5. The remaining hours of graduate credit must be selected from the following options:
   a. Additional 5000-level departmental seminars;
   b. 4000-level Department of Communication courses that are approved for graduate credit. Students should limit the number of 4000-level courses to no more than six hours;
   c. Up to six hours of graduate-level courses outside the department that directly relate to the student’s plan of study;
   d. Three hours of internship credit in COMM 5913 Internship in Communication (Sp, Su);
   e. Up to six hours of credit in COMM 590V Special Problems (Sp, Su, Fa).

   Students should also be aware of Graduate School requirements with regard to master’s degrees (http://catalog.uark.edu/graduatecatalog/degreerequirements/#mastersdegreestext).

**Communication Disorders (CDIS) Faculty**

**Andrew L. Bowers,** Assistant Professor

**Lisa Marie Bowers,** Assistant Professor

**Aletha Cook,** Clinical Instructor

**Kimberly Frances Frazier,** Associate Professor

**Margie Gilbertson,** Instructor

**Rachel E. Glade,** Clinical Instructor

**Fran W. Hagstrom,** Associate Professor

**Kim Perry,** Instructor

**Pradyumm Srivastava,** Assistant Professor

**Mary Ann Toner,** Associate Professor

**Mary Ann Toner,** Program Director

**Kim Frazier, Ph.D.,** Graduate Program Coordinator

**Website:** cdis.uark.edu

**Description and Requirements for the Master of Science Degree:**
(Minimum 36 academic credit hours, not counting clinical practicum credit
hours.) The M.S. degree program in communication disorders is designed to ensure that all degree candidates meet the minimum academic and clinical practicum requirements for the Certificate of Clinical Competence in Speech-Language Pathology of the American Speech-Language-Hearing Association (ASHA). The degree program requires a minimum of five academic semesters to complete, including continuous enrollment in the summer session between the first and second years. Thesis and non-thesis options are available. All candidates for the M.S. degree are required to pass a written comprehensive examination.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

The Master of Science (M.S.) degree program in communication disorders with an emphasis on speech-language pathology at the University of Arkansas is accredited by the Council on Academic Accreditation (CAA) in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association, 2200 Research Boulevard, #310, Rockville, MD 20850, 800-498-2071 or 301-296-5700. The CAA's Accreditation Action Report is available online on the CAA's webpage (http://www.asha.org/Academic/accreditation/caaDecisions) for recent accreditation decisions.

Prerequisites to Degree Program: Applicants to the M.S. degree in speech-language pathology are expected to have completed prerequisite course work in normal speech, language, and hearing functions, normal development, and speech-language and hearing disorders, as well as biological and physical sciences, behavioral and social sciences, and mathematics. Prospective applicants with undergraduate degrees in other disciplines should contact the Program Adviser for further information. To be considered for admission to graduate study in communication disorders, applicants must have a minimum overall GPA of 3.00 in undergraduate course work and must submit transcripts of all college-level coursework, a personal statement, and three letters of recommendation from persons competent to judge the applicant’s potential for graduate studies. All applicants must submit scores from the Graduate Record Examination for full consideration. Students are only accepted for Fall admission. The application deadline is February 1 and must be completed using the CSDCAS centralized electronic application process (see the Communication Disorders website (http://cdis.uark.edu) for details). Incomplete and/or late applications will not be considered. Admission decisions are based on demonstrated graduate potential as well as best fit for the program.

Community Health Promotion (CHLP)

http://chlp.uark.edu/index.php

The Community Health Promotion program prepares students in the area of Community Health (M.S.). The Ph.D. program prepares students with the competencies necessary to perform teaching and research duties both in private and public sectors including university settings. The minimum number of credit hours required to complete the master's degree is 33 and 60 hours are required to complete the Ph.D.

Prerequisites to M.S. Degree Program: For acceptance to the master’s degree programs, the program area requires in addition to the general requirements for admission to the Graduate School, an undergraduate degree in health or in a related field and the following admission standards: an overall undergraduate GPA of 3.00 (or if the overall undergraduate GPA is between 2.70 and 2.99, the student must have a 3.00 GPA on the last 60 hours of undergraduate course work, excluding student teaching, or a GRE score of 297 on the combined verbal and quantitative parts of the general test). Further, a curriculum vitae and 500 word interest statement must be submitted for program admission consideration.

M.S. Community Health Promotion Degree Program (33 hours)

Required Research Component

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESRM 5393</td>
<td>Statistics in Education and Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>or ESRM 6403</td>
<td>Educational Statistics and Data Processing</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Courses Component

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBHL 5613</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PBHL 5533</td>
<td>Theories of Social and Behavioral Determinants of Health</td>
<td>3</td>
</tr>
<tr>
<td>PBHL 5563</td>
<td>Public Health: Practices and Planning</td>
<td>3</td>
</tr>
<tr>
<td>PBHL 5573</td>
<td>Principles of Health Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Project or Master's Thesis or Non-Thesis/Non-Project Option

3 hours for Independent Research Project; 6 hours for Master's Thesis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBHL 589V</td>
<td>Independent Research</td>
<td>3-6</td>
</tr>
<tr>
<td>or PBHL 600V</td>
<td>Master's Thesis</td>
<td>3-6</td>
</tr>
</tbody>
</table>

Approved Electives (Thesis Option requires 9 credit hours of electives; Project Option requires 12 credit hours of electives; Non-Thesis/Non-Project Option requires 15 credit hours of electives)

Total Hours 33

1 Students must receive a grade of B or better in courses associated with the required research component and required courses component.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Prerequisites to the Ph.D. Degree Program: The applicant must have completed a master's degree or its equivalent in health or a closely related field and meet general admission requirements of the Graduate School. An application should include the following: 1) curriculum vitae; 2) statement of purpose, including objectives, research interests, and background information; 3) three letters of recommendation supporting the applicant's ability to successfully pursue a Ph.D. in community health promotion; 4) a GPA of at least 3.00 on all graduate course work; and 4) an acceptable score on the Graduate Record Examinations (GRE). Additional prerequisites may be prescribed after review of application materials. Furthermore, applicants who present a GRE score of 308 or greater on the combined verbal/quantitative portions, a GRE writing score of 5.5 or greater, a minimum overall GPA of 3.85 and faculty approval may apply for admission to the Ph.D. Community Health Promotion program after completion of their bachelor's degree.

Requirements for the Doctor of Philosophy Degree: A minimum of 96 graduate hours beyond the bachelor's degree is required. A doctoral advisory committee will be established by the student in consultation with the Coordinator of Graduate Study during the first semester of enrollment subsequent to acceptance into the degree program. The student, in
conjunction with the advisory committee, will define the program of study. The degree program requires successful completion of candidacy examinations, an acceptable dissertation, and an oral defense of the dissertation. These last requirements (p. 266) are described elsewhere in this catalog. Further requirements of the Doctor of Philosophy degree in community health promotion include the following:

**Departmental Core Requirements**

**Required Prerequisites (12 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBHL 5533</td>
<td>Theories of Social and Behavioral Determinants of Health (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PBHL 5573</td>
<td>Principles of Health Education (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PBHL 5563</td>
<td>Public Health: Practices and Planning (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>PBHL 5613</td>
<td>Epidemiology (Fa)</td>
<td>3</td>
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</table>

**Required Courses (15 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBHL 6803</td>
<td>Health Communication Theory, Research and Practice (Odd years, Sp)</td>
<td>3</td>
</tr>
<tr>
<td>HHPR 699V</td>
<td>Seminar (Irregular)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Select three of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBHL 6333</td>
<td>Health Behavior Research (Even years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PBHL 6553</td>
<td>Environmental Health (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>PBHL 6733</td>
<td>Health and the Aging Process (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>PBHL 6833</td>
<td>Principles of Epidemiology II (Sp, Su)</td>
<td>3</td>
</tr>
<tr>
<td>HHPR 699V</td>
<td>Seminar (Irregular)</td>
<td>1-3</td>
</tr>
<tr>
<td>or HHPR 699V</td>
<td>Seminar (Irregular)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Research and Statistical Requirements**

**Required Prerequisites (6 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHPR 5353</td>
<td>Research in Health, Human Performance and Recreation (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ESRM 5393</td>
<td>Statistics in Education and Health Professions (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>or ESRM 6403</td>
<td>Educational Statistics and Data Processing (Sp, Su, Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Courses (6 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESRM 6413</td>
<td>Experimental Design in Education (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ESRM 6423</td>
<td>Multiple Regression Techniques for Education (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Courses (9 hours)**

Select nine hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESRM 6533</td>
<td>Qualitative Research (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ESRM 6453</td>
<td>Applied Multivariate Statistics (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ESRM 6623</td>
<td>Techniques of Research in Education (Sp, Su)</td>
<td>3</td>
</tr>
<tr>
<td>ESRM 6653</td>
<td>Measurement and Evaluation (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ESRM 699V</td>
<td>Seminar (Irregular)</td>
<td>1-3</td>
</tr>
<tr>
<td>HHPR 699V</td>
<td>Seminar (Irregular)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

1 Other adviser approved 5000- or 6000-level research and/or statistics courses.

**Field of Study (9 hours)**

Students, in consultation with their doctoral advisory committee, will identify further course work comprising a field of study in community health promotion, consistent with the goals and objectives of the students and institution. Course work may be selected from several related disciplines or a single discipline.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

**Comparative Literature and Cultural Studies (CLCS)**

Keith Booker  
Director  
333 Kimpel Hall  
479-575-4301  
E-mail: kbooker@uark.edu  
http://www.uark.edu/ua/cplt/

**Degrees Conferred:**

M.A., Ph.D. (CLCS)

Comparative Literature and Cultural Studies is an interdisciplinary program, dedicated to the study of literature and culture from a global perspective and across languages, genres, disciplines, nations, and cultures. The program offers advanced academic training in foreign languages, literary translation, comparative literature, and cultural studies. The program is supported primarily by the Departments of Communication, English, and Foreign Languages. The program also has affiliated faculty members in several programs and departments in the humanities and social sciences, including Anthropology, Area Studies (European, Latin American, Middle East), Art, Classics, Drama, Gender Studies, Geography, History, Music, Philosophy, and Sociology.

**Areas of Study:** Master of Arts – Arabic, classics, cultural studies, English, French, German, and Spanish. Doctor of Philosophy – Comparative literature, interdisciplinary Hispanic studies, modern language, cultural studies, literary translation.

**Prerequisites to Degree Program:** The normal preparation for graduate study in comparative literature and cultural studies is an undergraduate or masters degree in English or foreign languages and literatures. Applicants should have advanced proficiency in at least one foreign language. The program may also accept students with undergraduate or master’s degree in the humanities, the social sciences, and other relevant fields under the condition that any deficiencies in literature or foreign languages be completed in addition to the requirements for the degree.

**Admission Requirements:**

The following materials must be submitted to the Director of the Comparative Literature and Cultural Studies program:

1. Application for Admission to Graduate Study in Comparative Literature and Cultural Studies. The form is available from the Program Director and the program’s Web page.
2. Admission to the University of Arkansas Graduate School.
3. Graduate Record Examination (GRE) scores on the Aptitude Test (verbal, quantitative, and analytical writing).
4. International students are required to take the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS) exams, meeting the minimum score required by the Graduate School.
5. Complete official transcripts of all undergraduate and graduate work.
Three letters of recommendation from former teachers, employers, or supervisors.

An examination paper from a literature course, including essay answers, or a term paper or other evidence of writing ability.

Statement of purpose describing academic interests and professional goals. Doctoral applicants must specify which track they wish to pursue: comparative literature, modern languages, cultural studies or translation.

Requirements for the Master of Arts Degree: In addition to the general requirements of the Graduate School, candidates must meet the following requirements:

1. Each master’s candidate must complete 36 hours of course work or 30 hours of course work and six hours of thesis. Master’s candidates intending to enter the Ph.D. program are recommended to choose the thesis option. All courses selected must be approved by the adviser, who will consult with the other members of the Master’s Program Advisory Committee.

2. Master’s candidates in the thesis option must take 12 hours of graduate course work in a first field and six hours of graduate course work in a second field (Arabic, Classics, English, French, German, Spanish, and courses in other disciplines in the humanities and the social sciences).

3. Master’s candidates in the non-thesis option must take 12 hours of graduate course work in each of two specialty fields (Arabic, Classics, English, French, German, Spanish, and courses in other disciplines in the humanities and the social sciences).

4. All master’s candidates must take a minimum of six hours in world literature and cultures.

5. WLIT 5193 Introduction to Comparative Literature and COMM 5503 Communication and Cultural Studies are required of all candidates in the master’s program.

6. Master’s candidates who choose cultural studies as one of their fields must demonstrate reading proficiency in a language other than English. The language requirement may be fulfilled either by taking 12 hours in the target language or by taking the reading exam administered by the Department of Foreign Languages.

7. Each master’s degree candidate is required to take and pass a comprehensive examination.

8. Master’s candidates in the thesis option must present a thesis proposal early in their second year of study and must turn in the thesis during the last semester of course work, following Graduate School guidelines for thesis submission.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Requirements for the Doctor of Philosophy Degree: The doctoral program in comparative literature and cultural studies is designed so that it may be based upon a Master of Arts in Comparative Literature, Cultural Studies, Communication, Arabic, English, French, German, Spanish or other languages or upon the Master of Fine Arts in Translation. Applicants with masters’ degrees in the humanities and the social sciences may also be accepted into the program, but will be required to fulfill any deficiencies that the adviser and the Ph.D. Program Advisory Committee identifies.

In addition to meeting hour and distribution requirements in one of the concentrations listed below, during the first year of study, the student must declare which doctoral track they will pursue (comparative literature, interdisciplinary Hispanic studies, modern languages, cultural studies or translation), and select a field, period, or genre specialization to support the dissertation (e.g., the epic tradition, postmodern cinema, Renaissance poetry, theoretical issues in translation). The program of study for each student, including administration of candidacy examinations and the satisfaction of all requirements of the Graduate School, will be designed, approved, and supervised by the Program Advisory Committee, which will consist of the Program Director, who will serve as the primary adviser, and at least two other faculty members drawn from the student’s areas of specialization.

The following specific requirements must be met by all Ph.D. degree candidates in Comparative Literature and Cultural Studies:

1. Candidates must take a minimum of 66 hours of graduate course work (including credit taken for the M.A. or M.F.A) and must attain a 3.00 grade-point average in each of their fields. Part or all of the graduate course work completed at other U.S. institutions or abroad with a grade of “B” or higher may count towards the 66 hours requirement with the approval of the Program Advisory Committee. However, it should be noted that this course work will not be reflected on the student’s transcript.

2. All candidates are required to take a minimum of 18 dissertation hours.

3. WLIT 5193 Introduction to Comparative Literature is required of all candidates.

4. A literary or cultural theory seminar is required of all candidates.

5. All foreign language requirements must be met before being admitted into candidacy.

6. Each Ph.D. degree candidate is required to pass the following candidacy examination:
   a. A written examination on specific topics within the student’s fields, approved jointly by the student and the Advisory Committee.
   b. An oral examination to discuss strengths, weaknesses, or omissions in the written exam. Students may retake only once any examination they fail.

7. Upon successfully completing the candidacy examination, each student must submit a dissertation proposal to be discussed and approved in a formal meeting with the student’s dissertation committee.

8. Within the time limits specified by the Graduate School, each student must submit a dissertation acceptable to the student’s dissertation committee.

9. Each student must pass a dissertation defense administered by the student’s dissertation committee.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Comparative Literature Concentration: A candidate will prepare three literary fields, one of which will be world literature; the others will be drawn from Arabic, English, French, German, Spanish, Classics or other languages. A minimum of 24 hours must be taken in one field, a minimum of 18 in the second, and a minimum of 15 in the third. Courses may be substituted from related fields with program approval. The M.A. will typically be in comparative literature. Each student must demonstrate fluency in at least one language other than English and a reading knowledge of a second foreign language.

Interdisciplinary Hispanic Studies Concentration: This concentration is designed for candidates with an M.A. in Spanish whose scholarly and teaching interests are primarily in Hispanic studies and in interdisciplinary and transnational approaches to the literatures and cultures of Spain.
Latin America and Hispanic U.S. In addition to the general CLCS doctoral requirements, candidates in this concentration will be required to complete 51 hours of graduate course work in Spanish or Hispanic related classes and nine hours of graduate course work in one other field, discipline, or language (i.e. Cultural Studies, Anthropology, History, English, French, Arabic, etc.). Candidates must be fluent in Spanish and English, and demonstrate reading knowledge of another language.

**Modern Language Concentration:** A candidate will prepare two fields, one of which will be English, French, German, or Spanish. The second field may be English (if not selected as the first field) or a second foreign language (Arabic, French, German, or Spanish). The candidate’s Master of Arts will typically be in English, French, German, or Spanish. Students with a Master of Arts in these and other languages from other U.S. universities or from programs abroad may also be admitted into the Modern Language Concentration. In such cases, the program committee will evaluate the candidate’s academic record, accept part or all of the course work completed elsewhere, and assign any deficiencies that the committee identifies. However, it should be noted that course work taken elsewhere will not be listed on the students University of Arkansas transcript. A minimum of 36 hours must be taken in the first field, a minimum of 24 in the second. Up to 12 hours of relevant world literature or related courses may be applied to either or both fields with program approval. Each student must demonstrate fluency in two languages other than English.

**Cultural Studies Concentration:** A student will prepare two fields. The first field will be in language and literary studies in a particular tradition (Arabic, Classics, English, French, German, Spanish, or other languages and literatures). The second field of concentration will be developed according to the candidate’s interest and disciplinary background, with the approval of the adviser and the doctoral advisory committee. The second field of concentration may be a pre-approved particular cultural studies subject (i.e. gender studies, popular and mass culture, ethnic studies, international film or visual cultures); a geographical region (i.e. Africa, Asia, Latin America, Middle East, Europe); a historical or cultural period (i.e. Medieval, Renaissance, 20th century); or a particular discipline (i.e. Philosophy, Cultural Anthropology, Sociology, Musicology). As core courses of the second field, COMM 5593 “Communication and Cultural Studies” and the seminar COMM 5993 “Readings in Cultural Studies” are required. Applicants should have a Master’s of Arts in Comparative Literature, Cultural Studies, English, Foreign Languages or a field in the Humanities or the Social Sciences. A minimum of 30 hours must be taken in each of the two fields. Each student must demonstrate fluency in at least one language other than English.

**Literary Translation Concentration:** A student will prepare three fields. A minimum of 36 hours will be taken in Arabic, French, German, Spanish or other languages for the first field; a minimum of 12 hours will be taken in translation workshops (ENGL 5043) for the second field; and a minimum of 12 hours drawn from courses on the form and theory of translation, poetry, and fiction (ENGL 5223, ENGL 5263, ENGL 5273, ENGL 5283, ENGL 5293) for the third. Courses may be substituted from related fields with program approval. The dissertation project may be a study of some translation issue or a book-length translation of a literary work with a critical introduction and annotated text. The M.A. will typically be in Arabic, French, German, Spanish, or other languages and literatures. Each student must demonstrate fluency in at least one language other than English and a reading knowledge of a second foreign language.

---

**Computer Science and Computer Engineering (CSCE)**

**Faculty**

- **David Andrews**, Professor, Thomas Mullins Chair of Computer Science and Computer Engineering
- **M. Gordon Beavers**, Associate Professor
- **Christophe Bobda**, Professor
- **Jia Di**, Professor, 21st Century Research Leadership Chair
- **Michael S. Gashler**, Assistant Professor
- **John Michael Gauch**, Professor
- **Susan E. Gauch**, Professor
- **Miaoqing Huang**, Associate Professor
- **Qinghua Li**, Assistant Professor
- **Wing Ning Li**, Professor
- **Xiaoqing ”Frank” Liu**, Professor, Rodger S. Kline Leadership Chair
- **Brajendra Nath Panda**, Professor
- **Pat Parkerson**, Associate Professor
- **Matthew J. Patitz**, Assistant Professor
- **Dale R. Thompson**, Associate Professor
- **Xintao Wu**, Professor, Charles D. Morgan/Axiom Graduate Research Chair

Xiaoqing Liu  
Department Head  
504 J.B. Hunt Center for Academic Excellence  
479-575-6197  

Gordon Beavers  
Graduate Coordinator  
508 J.B. Hunt Center for Academic Excellence  
479-575-6197  

E-mail: gordonb@uark.edu

http://computer-science-and-computer-engineering.uark.edu/index.php

**Degrees Conferred:**

M.S., Ph.D. in Computer Science (CSCE)  
M.S.Cmp.E. in Computer Engineering (CENG)  
Ph.D. in Engineering (ENGR) (See Engineering (p. 103))

**Primary Areas of Faculty Research:** Distributed computer systems and networks, cluster computing, database security, molecular computing, computer security, digital forensics, next generation computer architectures, RFID information security, embedded systems, hardware/software codesign, low power systems design, pervasive and mobile computing, intelligent Internet applications, image and video processing.

**Prerequisite to Degree Programs:** The Computer Science and Computer Engineering Department offers two Master of Science degrees, one in Computer Science and one in Computer Engineering. Applicants to the Computer Science MS program should have a Bachelor of Science degree in computer science from an accredited program. Applicants to the Computer Engineering MS program should have a Bachelor of Science degree in computer engineering from an accredited program. Applicants to either program whose transcripts do not show core courses relevant to the program to which they are applying will be assigned deficiency courses. All applicants must present acceptable scores on the General Test of the Graduate Records Examination (GRE).

**Master of Science Degree Programs:** The two M.S. degrees have common requirements in terms of the number of credit hours required.
The two programs are differentiated by the student's advisory committee. The advisory committee will approve courses that are appropriate for the student's program and interests. Students enrolled in the computer engineering program can expect to take more courses with a hardware and systems emphasis, while students enrolled in the computer science program can expect to take more courses with an emphasis in software and theory. All rules and regulations of the CSCE Department, the College of Engineering, and the Graduate School must be followed.

**Master of Science in Computer Science (M.S.)**

**Degree Requirements:** The thesis option (30 hours) requires the successful completion of at least six credit hours of CSCE 610V Master's Thesis (Sp, Fa), plus 24 credit hours of course work approved by the candidate's advisory committee. At least 15 of the 24 hours must be CSCE courses at the 5000 level. The remaining nine hours may include no more than six hours of transfer work, three hours of individual study, six hours from outside the department, and nine hours of courses at the 4000 level.

All master’s students completing the thesis option must pass an oral examination and defense of the thesis in, at most, two attempts. The first attempt may not occur before all of the following qualifying conditions have been satisfied:

- Candidate has completed at least 21 hours that are applicable toward the degree;
- Candidate is currently enrolled in CSCE 610V;
- Candidate's cumulative grade-point average on all graduate-level courses is 3.0 or higher;
- Any deficiencies assigned upon admission to the program have been removed; Candidate must be continuously enrolled, except for summers, until the thesis is defended.

The final exam is comprehensive; a portion of the exam will be devoted to questions concerning courses completed by the student. Another portion of the exam will be directed toward a defense of the thesis. Reading copies of the thesis should be delivered to members of the Thesis Committee at least two weeks prior to undertaking the final examination. If a student is unsuccessful, the Program of Study committee may recommend that the examination be repeated. If so, the requirements to be satisfied prior to reexamination will be stipulated and a time limitation specified.

All other conditions that have been specified by the student's advisory or thesis committee must be satisfied.

The course work option requires the successful completion of 33 credit hours of course work approved by the candidate’s graduate committee. At least 21 of the 33 hours must be CSCE courses at the 5000 level. The remaining twelve hours may include no more than six hours of transfer work, three hours of individual study, six hours from outside the department, and nine hours of courses at the 4000 level.

All master’s students completing the course work option must pass an oral examination of the course work in the final semester of enrollment of graduate-level courses and the following conditions have been satisfied:

1. The candidate's cumulative grade-point average on all graduate-level courses is 3.0 or higher.
2. Any deficiencies assigned upon admission to the program have been removed.

Students who complete a B.S. degree in CSCE at the University of Arkansas, Fayetteville, with a cumulative GPA of 3.5 or greater may count up to six hours of CSCE graduate-level course work (5000 level) completed as an undergraduate student towards the graduate degree. Students must submit the “Request for Retroactive Graduate Credit” form to the Graduate coordinator in their first semester of graduate study.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

**Grade Requirements:** Students in the master’s program in Computer Science or Computer Engineering must maintain grades at the B level of higher. Should a student receive a grade of C or lower, the student must immediately contact the student's adviser and the Graduate Coordinator to discuss the consequences and options available. The graduate adviser and the CSCE graduate program coordinator will select the student's classes for the following semester. If a second grade lower than B is received the student will be terminated from the program. The student may appeal the termination to the Graduate Studies Committee. If the student is allowed to remain in the program the student should expect to be required to repeat one or more classes in which a grade less than B was received as well as other possible requirements.

**Master of Science in Computer Engineering (C.S.Cmp.E.)**

**Degree Requirements:** The thesis option (30 hours) requires the successful completion of at least six credit hours of CSCE 610V Master's Thesis (Sp, Fa), plus 24 credit hours of course work approved by the candidate’s advisory committee. At least 15 of the 24 hours must be CSCE courses at the 5000 level. The remaining nine hours may include no more than six hours of transfer work, three hours of individual study, six hours from outside the department, and nine hours of courses at the 4000 level.

All master’s students completing the thesis option must pass an oral examination and defense of the thesis in, at most, two attempts. The first attempt may not occur before all of the following qualifying conditions have been satisfied:

- Candidate has completed at least 21 hours that are applicable toward the degree;
- Candidate is currently enrolled in CSCE 610V;
- Candidate's cumulative grade-point average on all graduate-level courses is 3.0 or higher;
- Any deficiencies assigned upon admission to the program have been removed; Candidate must be continuously enrolled, except for summers, until the thesis is defended.

The final exam is comprehensive; a portion of the exam will be devoted to questions concerning courses completed by the student. Another portion of the exam will be directed toward a defense of the thesis. Reading copies of the thesis should be delivered to members of the Thesis Committee at least two weeks prior to undertaking the final examination. If a student is unsuccessful, the Program of Study committee may recommend that the examination be repeated. If so, the requirements to be satisfied prior to reexamination will be stipulated and a time limitation specified.

All other conditions that have been specified by the student’s advisory or thesis committee must be satisfied.
The course work option requires the successful completion of 33 credit hours of course work approved by the candidate's graduate committee. At least 21 of the 33 hours must be CSCE courses at the 5000 level. The remaining twelve hours may include no more than six hours of transfer work, three hours of individual study, six hours from outside the department, and nine hours of courses at the 4000 level.

All master's students completing the course work option must pass an oral examination of the course work in the final semester of enrollment of graduate-level courses and the following conditions have been satisfied:

1. The candidate's cumulative grade-point average on all graduate-level courses is 3.0 or higher.
2. Any deficiencies assigned upon admission to the program have been removed.

Students who complete a B.S. degree in CSCE at the University of Arkansas, Fayetteville, with a cumulative GPA of 3.5 or greater may count up to six hours of CSCE graduate-level course work (5000 level) completed as an undergraduate student towards the graduate degree. Students must submit the "Request for Retroactive Graduate Credit" form to the Graduate coordinator in their first semester of graduate study.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Grade Requirements: Students in the master's program in Computer Science or Computer Engineering must maintain grades at the B level of higher. Should a student receive a grade of C or lower, the student must immediately contact the student's adviser and the Graduate Coordinator to discuss the consequences and options available. The graduate adviser and the CSCE graduate program coordinator will select the student's classes for the following semester. If a second grade lower than B is received the student will be terminated from the program. The student may appeal the termination to the Graduate Studies Committee. If the student is allowed to remain in the program the student should expect to be required to repeat one or more classes in which a grade less than B was received as well as other possible requirements.

Ph.D. in Engineering
Requirements for the Doctor of Philosophy Degree: In addition to the requirements of the Graduate School, the following departmental requirements must be satisfied by candidates for a Doctor of Philosophy degree with a concentration in either computer science or computer engineering.

A student is admitted to candidacy by first passing a Ph.D. Qualifying Examination and then, at a later time, a Candidacy Examination on the student's dissertation proposal. The student must attempt the Ph.D. Qualifying Examination no later than the end of the first year of study for students admitted to the program with a master's degree and no later than the end of the third year for students admitted to the program without a master's degree.

The Qualifying Examination is scored Pass or Fail on each of the four sections of the examination. If a Fail is assigned on any section of the examination, then the student must repeat that section at the next administration of the examination. A second failure will terminate the student's course of study in the doctoral program. In preparation for the Ph.D. Qualifying Examination, a student should refer to the CSCE Graduate Student Handbook.

Each student must form a doctoral advisory committee before registering for dissertation hours. This committee must consist of four faculty members who hold qualifying status on the graduate faculty. Three members, including the chair, must hold regular or adjunct appointments in the Department of Computer Science and Computer Engineering. The fourth member should be from outside the department.

For the Candidacy Examination, the student is expected to present a dissertation proposal. Committee members will judge the proposal on its scientific merit, originality, and difficulty. Each Ph.D. student is required to defend a completed dissertation before his or her dissertation committee.

Summary:

1. All students must complete a minimum of 72 semester hours of graduate-level credit beyond the bachelor's degree, including a minimum of 42 semester hours of course work and a minimum of 30 semester hours of dissertation research credits.
2. A minimum of 30 semester hours of course work must be at the graduate level (5000 or above).
3. Upon recommendation of the student's advisory committee, a student who has entered the Ph.D. program after a master's degree may receive credit for up to 30 semester hours. If the 30 hours includes master's thesis research, the advisory committee may credit up to six hours of thesis research toward the minimum dissertation research requirement.
4. Ph.D. students must complete a minimum of nine semester credit hours of course work in a set of coherent courses in a related subject area approved by the student's advisory committee.
5. Students must earn a minimum cumulative grade-point average of 3.0 on all graduate courses attempted.
6. Ph.D. students must complete and defend a dissertation on a topic in the student's major field of study.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Counselor Education (CNED)
Faculty
Paul Blisard, Clinical Assistant Professor
David Christian, Assistant Professor
Roy Carl Farley, Professor
Kristin Kay Higgins, Associate Professor
Erin O. Kern, Assistant Professor
Kristi Leann Perryman, Assistant Professor

Kristin Higgins
Program Coordinator
135 Graduate Education Building
479-575-3329
Email: kkhiggi@uark.edu

Roy Farley
Program Coordinator
134 Graduate Education Building
479-575-7725
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The Counselor Education program at the University of Arkansas is committed to providing quality education and training for individuals pursuing counseling positions in a variety of settings. The M.S. and Ph.D. degrees are offered through the program. The Counselor Education
Program's M.S. in School Counseling, M.S. in Mental Health Counseling, and Ph.D. in Counselor Education are accredited by the Council for Accreditation of Counseling and Related Education Programs (CACREP). Common course requirements are specified for each emphasis. General requirements for M.S. and Ph.D. applicants are as specified in the Objectives, Regulations, and Degrees section of this catalog. Persons completing degrees in counselor education are eligible to apply for licensure as a Professional Counselor through the Board of Examiners in Counseling for the State of Arkansas and/or for various certifications through the State Department of Education and National Board for Certified Counselors. Persons intending to complete school counselor certification requirements for the state of Arkansas must, in addition to the master's degree, meet certain Arkansas Department of Education requirements.

Areas of Concentration: Mental health counseling and school counseling.

Admission Requirements and Procedures for the Master of Science in Counseling Degree Program: Academic requirements include a 3.00 GPA on all undergraduate and also on any previous graduate course work. Applicants should submit a program application, GRE scores, three letters of professional recommendation, a writing sample, and a statement of professional goals to the Coordinator for Graduate Studies (GRAD 116). Applicants should first submit an application and official transcripts to the Graduate School. The applicant must be accepted by the Graduate School prior to consideration for admission into the Counseling Program. Top applicants will be invited for a personal interview with Counselor Education faculty. Completed application deadlines are September 15 for spring admission and January 15 for summer/fall admission.

Requirements for the Master of Science in Counseling Degree:

Required Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNED 5203</td>
<td>Foundations of the Counseling Profession (Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 5213</td>
<td>Lifestyle &amp; Career Development (Su)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 5303</td>
<td>Individual Appraisal (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 5323</td>
<td>Counseling Theory (Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 5333</td>
<td>Basic Counseling Techniques (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 5363</td>
<td>Dynamics of Group Counseling (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 5513</td>
<td>Counseling and Human Diversity (Su)</td>
<td>3</td>
</tr>
<tr>
<td>ESRM 5013</td>
<td>Research Methods in Education (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>EDFD 5573</td>
<td>Life-Span Human Development (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>27</strong></td>
</tr>
</tbody>
</table>

Emphasis in Mental Health Counseling requires 60 graduate hours including the core and the following 33 hours:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNED 5193</td>
<td>Clinical Mental Health Counseling (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 5343</td>
<td>Counseling Practicum (Sp, Fa) (100 clock hours in a mental health counseling setting)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 5353</td>
<td>Psychopharmacology (Su)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 5373</td>
<td>Ethical and Legal Issues in Counseling (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 5383</td>
<td>Crisis Intervention Counseling (Su)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 5403</td>
<td>Case Management and Counseling (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 574V</td>
<td>Counseling Internship (Sp, Fa) (6 semester hours; 600 clock hours in a community setting)</td>
<td>6</td>
</tr>
<tr>
<td>CNED 6003</td>
<td>Counseling and Addictions (Su)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 6023</td>
<td>Foundations of Marriage and Family Counseling Therapy (Su)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 6083</td>
<td>Consultation Theory and Methods (Su)</td>
<td>3</td>
</tr>
</tbody>
</table>

Emphasis in School Counseling requires 48 graduate hours including the core and the following 21 hours:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNED 5313</td>
<td>Program Organization and Information Management (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 5343</td>
<td>Counseling Practicum (Sp, Fa) (100 clock hours in a school counseling setting)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 5403</td>
<td>Case Management and Counseling (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 574V</td>
<td>Counseling Internship (Sp, Fa) (6 semester hours; 600 clock hours in an elementary or secondary school setting)</td>
<td>6</td>
</tr>
<tr>
<td>CNED 6083</td>
<td>Consultation Theory and Methods (Su)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 6093</td>
<td>Counseling Children and Adolescents Through Play (Sp)</td>
<td>3</td>
</tr>
</tbody>
</table>

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Admission Requirements and Procedures for the Doctor of Philosophy Degree: Applicants for the doctoral program in counselor education may obtain an application packet from the counselor education Web site: http://cned.uark.edu.

Doctoral applicants must:

1. Have a completed master's degree in counseling or its equivalent in areas specified by the Council for Accreditation of Counseling and Related Education Programs (CACREP), and preferably one year post-master's professional counseling experience or the equivalent.

2. Apply to the Graduate School.

3. Submit official transcripts reflecting a minimum 3.5 GPA on all previous graduate work.


5. Submit three letters of recommendation indicating capacity for advanced graduate study.

6. Submit an autobiographical sketch.

7. Top applicants will be invited for a formal interview with the counselor education faculty.

8. All applicants must be accepted by the Graduate School prior to consideration for admission into the Counseling Program.

9. Complete applications are due September 15 for Spring admission and January 15 for Summer/Fall admission.

Requirements for the Doctor of Philosophy Degree: Candidates for the Doctor of Philosophy in counselor education must meet the requirements for the applicable degree in the Objectives, Regulations, and Degrees section of this catalog and complete a minimum of 98 semester hours of graduate study acceptable to their doctoral advisory committee.

Counselor Education Core Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNED 6013</td>
<td>Advanced Counseling Theory and Methods (Even years, Sp)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 6033</td>
<td>Advanced Group Theory and Methods (Odd years, Sp)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 6043</td>
<td>Supervision of Counselors (Even years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 6073</td>
<td>Research in Counseling (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CNED 6083</td>
<td>Consultation Theory and Methods (Su)</td>
<td>3</td>
</tr>
</tbody>
</table>
The program leading to the degree of Master of Fine Arts in Creative Writing provides graduate-level training in creative writing and in the study of literature.

**Required Courses:** 60 hours are required for the M.F.A. degree.

1. **Required Writing and Craft Courses**
   - a. Writing Workshop (15 to 24 semester hours)
   - b. Craft of Fiction, Poetry, or Translation (9 hours total; 6 hours in student’s primary genre; 3 hours in second genre)
   - c. Modern/Contemporary Fiction and Poetry (9 hours total; 6 hours in student’s primary genre; 3 hours in second genre)

2. **Other Advanced Courses (4000-level or higher):** 18-30 hours of literature or approved courses, at least 3 hours of which must be a course that focuses on literature written prior to 1900 and 3 hours of which must be a literature course that emphasizes cultural diversity.

3. **Thesis Advising:** 6 hours.

**Thesis:** An M.F.A. thesis may be a collection of poems or stories or a novel. For students whose primary genre is Translation, the thesis will consist of a significant body of work (i.e., poems, stories, or a novel) translated from the original language into English. The thesis should be of the quality of those works currently published by national magazines, by literary journals, and by legitimate book publishers.

**Final Examination:** Each M.F.A. candidate must pass a one-hour oral examination and defense of the thesis. Awarding of the M.F.A. degree requires approval of the faculty committee.

**Grade Requirement:** Per Graduate School policy, M.F.A. candidates must present a minimum cumulative grade-point average of 2.85 on all graduate courses required for the degree in order to earn the M.F.A. Failing to earn such an average on the minimum number of hours, the student is permitted to present up to six additional course (not thesis) hours of graduate credit in order to accumulate a grade-point average of 2.85. In the computation of grade point, all courses pursued at this institution for graduate credit (including any repeated courses) shall be considered. Students who repeat a course in an endeavor to raise their grade must count the repetition toward the maximum of six additional hours. If a student encounters academic difficulty after having already completed six credit hours for the degree beyond the minimum degree requirements, no additional hours may be taken. Please note that the Graduate School calculates grade-point average on all graduate-level coursework displayed on the transcript.

All students working toward the degree will plan their specific programs in consultation with their advisers. All degree requirements must be completed within six consecutive calendar years from the date of first enrollment.
Crop, Soil, and Environmental Sciences (CSES)

Faculty
Robert Keith Bacon, Professor
Thomas Barber, Associate Professor
Fred Bourland, Professor
Kristofer R. Brye, Professor
Nilda Roma Burgos, Professor
Pengyin Chen, Professor
Paul Allen Counce, Professor
Michael B. Daniels, Assistant Professor
Leonel A. Espinoza, Extension Associate Professor
Edward E. Gbur Jr., Professor
Jarrod T. Hardke, Associate Professor
Jason Kelley, Extension Associate Professor
David Eric Longer, Professor
Andy Maoumoustakos, Professor
David M. Miller, Professor
Karen Ann-Kuenzel Moldenhauer, Professor, Rice Industry Chair in Variety Development
Morteza Mozaffari, Assistant Professor
Richard J. Norman, Professor
Jason Keith Norsworthy, Professor
Andy Pereira, Professor
Larry C. Purcell, Professor, Ben J. Altheimer Chair for Soybean Research
Michele L. Reba, Research Associate Professor
Trenton L. Roberts, Assistant Professor
Bill Robertson, Professor
Jeremy Ross, Associate Professor
Mary Cathleen Savin, Professor
Robert C. Scott, Extension Professor
Xueyan Sha, Associate Professor
Andrew N. Sharpley, Distinguished Professor
Jerral V. Skinner, Lecturer
Nathan A. Slaton, Professor
Vibha Srivastava, Professor
Cammy Willett, Assistant Professor
Charles E. Wilson Jr., Professor
Lisa S. Wood, Clinical Assistant Professor

R. K. Bacon
Department Head
115 Plant Sciences Building
479-575-2354
E-mail: raamstr@uark.edu (raamstr@uark.edu)

http://cses.uark.edu/

Degrees Conferred:
M.S., Ph.D. (CSES)

Areas of Study: Crop sciences, soil sciences, and environmental sciences. Areas of specialization include plant breeding and genetics, biotechnology, water quality, environmental science, crop physiology, crop production, weed science, pesticide residue, seed technology, soil chemistry, soil classification, soil fertility, soil microbiology, and soil physics.

Primary Areas of Faculty Research: Environmental, soil, and water science (bioremediation, soil and water quality, microbial ecology, nutrient management, natural resource management using GIS); plant sciences (plant breeding and genetics, plant biotechnology, plant physiology, weed science), and agronomic production science.

Prerequisites to Degree Programs: While extensive undergraduate training in agriculture and physical and biological science is desirable, no specific prerequisites are required. Deficiencies in undergraduate major or prerequisites for advanced courses may be included in the student’s program.

Requirements for the Master of Science Degree:

Thesis option: Minimum of 24 semester hours of course work as outlined by the student’s graduate advisory committee plus six semester hours of thesis credit. The student will be given an oral examination after the thesis is completed.

Non-Thesis M.S. option: Some students wishing to obtain an M.S. degree may be better served by a program that emphasizes additional course work in the environmental and crop sciences rather than the research thesis program. Students must be approved by the department’s Graduate Committee for admission into the non-thesis option before developing a program of study in concert with the student’s major adviser and his/her graduate advisory committee. A minimum of 33 hours of graduate-level course work is required, including a graduate statistics class, a communication course, preferably CSES 5103 Scientific Presentations, a 3-hour research experience taken as CSES 502V Special Problems Research, that requires the student to demonstrate scientific thinking, synthesizing, and writing skills, a minimum of 9 hours of graduate courses at the 5000 level or higher in the plant, soil, or other relevant sciences in addition to the communication (CSES 5103) and Special Problems Research (CSES 502V) courses, and an exit seminar.

The student will interact with his/her major adviser and graduate advisory committee in completing the agreed-upon course of study and must pass an oral and a written examination given by the advisory committee over all course work completed for the degree.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Requirements for the Doctor of Philosophy Degree: After a student has been admitted to the Graduate School and accepted by the department as being qualified for advanced work, the student is assigned to a major adviser. The major adviser will, in consultation with the department head, select a graduate committee. This committee will serve both in an advisory capacity for the student’s program and as the dissertation and examination committee. The student’s graduate advisory committee will determine the number of hours of course work to be completed for the degree.

The student must take candidacy examinations (prelims) in at least five fields of study after completing approximately two years of graduate study and at least one year before completing all other requirements. Preliminary examinations must be written and oral. Further details regarding requirements for the Doctor of Philosophy degree are available in the department office.
Cross-Sector Alliances (CSAL)

Faculty

Vikas Anand, Professor
David Graham Hyatt, Clinical Assistant Professor
Joshua Lee Mitchell, Assistant Professor
Margaret F. Reid, Professor

Margaret Reid
Chair, Department of Political Science
Old Main 428
479-575-5352
mreid@uark.edu (mreid@uark.edu)

http://grad.uark.edu/crossSectorAlliance

A Graduate Certificate in Cross-Sector Alliances is offered collaboratively by the Master of Public Administration program in the J. William Fulbright College of Arts and Sciences and the Master of Business Administration program in the Walton College of Business. The program prepares students for a workplace in which they will be interacting with organizations from other sectors in joint projects or initiatives. Accordingly, students must understand the financial, accountability and general management challenges of the different sectors. In addition, the program also prepares students for work in different sectors and builds skills not addressed in stand-alone programs. In general, students will gain a fundamental knowledge of within-sector management issues, how those issues relate to cross-sector management and governance, and will be able to apply this understanding in practical scenarios.

The Department of Geosciences offers an online Geospatial Technologies Graduate Certificate through University of Arkansas Global Campus (http://globalcampus.uark.edu/). This certificate is designed for working professionals who wish to develop technical skills in the emerging field of geospatial technologies. The certificate provides the technical instruction needed to be employed in the geosciences and collateral disciplines as one of the American Society of Photogrammetry and Remote Sensing’s “Mapping Scientist” and as a “Certified Geographic Information Systems Professional” (GISP).

Requirements for a Geospatial Technologies Graduate Certificate

Requirements for admission: Graduate status; there are no disciplinary requirements.

A total of 12-18 hours are required for the certificate:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS 5043</td>
<td>Geospatial Technologies Mathematical Toolkit (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 5073</td>
<td>Geospatial Technologies Computational Toolkit (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 5083</td>
<td>Geospatial Technologies Statistical Toolkit (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 5543</td>
<td>Geospatial Applications and Information Science (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 5553</td>
<td>Spatial Analysis Using ArcGIS (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 5593</td>
<td>Introduction to Geodatabases (Sp, Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

It is possible to waive 3 to 6 hours of required coursework for GEOS 5043 and GEOS 5073 through successful completion of proficiency exams.

Curriculum and Instruction (CIED)

Faculty

Richard Abernathy, Clinical Assistant Professor
Denise Ariola, Clinical Assistant Professor
Daniel Barth, Clinical Assistant Professor
Sheila D. Bayles, Adjunct Lecturer
Jennifer G. Beasley, Assistant Professor
Dennis E. Beck, Assistant Professor
Karmen V. Bell, Clinical Instructor
Ed Bengtson, Assistant Professor
Freddie A. Bowles, Associate Professor
Kevin P. Brady, Associate Professor
Deborah A. Brown, Clinical Assistant Professor
Stephen Burgin, Assistant Professor
Vinson R. Carter, Assistant Professor
Vicki S. Collet, Assistant Professor
Kathleen Collins, Professor
Sean P. Connors, Associate Professor
Tracey Crowe, Clinical Assistant Professor
Michael Daugherty, Professor
Eva I. Diaz, Research Associate
Philip M. Eickstaedt, Instructor
Linda Hale Eilers, Clinical Associate Professor
Angela Carlton Elsass, Clinical Assistant Professor
Jason L. Endacott, Associate Professor
Nancy P. Gallavan, Adjunct Professor
Conra D. Gist, Assistant Professor
Christian Z. Goering, Associate Professor
Sandra J. Goss, Instructor
Aleza R.S. Greene, Clinical Assistant Professor
David Hanson, Clinical Instructor
Jennifer B. Hennessey, Clinical Instructor
Sarah Holland, Instructor
Carleton Holt, Associate Professor
Rhett J. Hutchins, Clinical Assistant Professor
Marcia B. Imbeau, Professor
Charlene M. Johnson-Carter, Associate Professor
Marsha L. Jones, Instructor
Laura B. Kent, Associate Professor
Grace R. Kerr, Clinical Instructor
Heather D. Kindall, Assistant Professor
Suzanne Kucharczyk, Assistant Professor
Kara A. Lasater, Visiting Assistant Professor
Felicia Lincoln, Associate Professor
Elizabeth R. Lorah, Assistant Professor
William McComas, Professor, Parks Family Professor of Science Education
Kevin J. McKinley, Lecturer
Derrick Mears, Clinical Associate Professor
Jaime C. Miller, Instructor
Denise Ann Mounts, Clinical Assistant Professor
Cheryl Ann Murphy, Associate Professor
Cynthia Orona, Assistant Professor
Betsy Orr, Associate Professor
Donna S. Owen, Clinical Instructor
Janet Penner-Williams, Assistant Professor
Christine R. Ralston, Clinical Assistant Professor
Peggy Schafer-Whitby, Associate Professor
Tom E.C. Smith, University Professor
Melissa A. Waits, Instructor

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).
Curriculum and Instruction (CIED)

Cathy Wissehr, Clinical Assistant Professor
Ginney Wright, Instructor
Lu Yu, Visiting Assistant Professor
Michael K. Daugherty
Department Head
217 Peabody Hall
479-575-4209
E-mail: mkd03@uark.edu

Jennifer Beasley
Graduate Coordinator
118 Peabody Hall
479-575-6195
E-mail: jgbeasle@uark.edu

http://cied.uark.edu/

Degrees Conferred:
M.A.T. in Childhood Education (p. 78) (CHED)
M.A.T. in Secondary Education (p. 164) (SEED)
M.Ed. in Curriculum and Instruction (CIED)
M.Ed. in Career and Technical Education (p. 73) (CATE)
M.Ed. in Educational Leadership (p. 97) (EDLE)
M.Ed. in Educational Technology (p. 101) (ETEC)
M.Ed. in Secondary Education (p. 164) (SEED)
M.Ed. in Special Education (p. 172) (SPED)
M.Ed. in Teaching English to Speakers of Other Languages (p. 177) (TESL)
Ed.S. in Curriculum and Instruction (CIED)
Ph.D. in Curriculum and Instruction (CIED)

Graduate Certificates Offered (non-degree):
Applied Behavior Analysis (p. 172) (APBA)
Arkansas Curriculum/Program Administrator (p. 97) (ACPA)
Autism Spectrum Disorders (p. 172) (AUTS)
Building-Level Administration (p. 97) (PSBL)
District-Level Administration (p. 97) (PSDL)
STEM Education for Early Childhood (p. 78) (K-4) (STEM)

Licensing Offered:
Additional Licensure Program (ALP) in Middle-Level Education
Additional Licensure Program (ALP) in Special Education (p - grade 4)
Additional Licensure Program (ALP) in Special Education (grades 4-12)

Curriculum and Instruction (M.Ed.)
The M.Ed. Degree in Curriculum and Instruction is designed to provide advanced professional studies in graduate course work for persons who currently hold teaching credentials (such as those found in formal PK-12 settings) or for those with experience as educators who do not require such credentials (i.e. instruction in the community college, informal educational environments such as zoos, nature centers and museums and/or private educational organizations).

Prerequisites to the M.Ed. Degree: Students must apply for entrance to the UA Graduate School before being considered for admission to the M.Ed. in Curriculum and Instruction. In addition to the U of A Graduate School admission requirements, students must provide two letters of recommendation and a personal statement discussing reasons for entry into the program accompanied by a discussion of the interest area to be pursued. Students are expected to have at least two years of experience in some education setting before beginning the M.Ed. program but are not required to possess a teaching certificate. Students will be assigned an adviser related to their area of interest. The adviser and student will together prepare a Program of Studies before completion of the first 12 hours of coursework.

Requirements for the Master of Education Degree (33 hours)

Required Core Courses (21 hours)

Research Tools and Foundations (9 credits)
Choose one of the following:

- CIED 5013 Measurement, Research and Statistical Concepts in the Schools (Su)
- CIED 5273 Research in Curriculum and Instruction (Sp, Su, Fa)
- CIED 5983 Practicum in C & I (Sp, Su, Fa)

Choose one of the following:

- ESRM 5393 Statistics in Education and Health Professions (Sp, Su, Fa)
- ESRM 6533 Qualitative Research (Sp, Fa)

Psycho-Sociological Foundations (6 credits)

- CIED 5053 Multicultural Issues in Elementary Education (Odd years, Sp) (Su)
- EDFD 5373 Psychological Foundations of Teaching and Learning (Irregular)
- EDFD 5673 Principles of Motivation (Sp)
- CIED 5303 Adolescence and Learning (Sp)

Pedagogical Foundations (6 credits)

- CIED 5623 The School Curriculum (Sp, Su, Fa)
- ETEC 5303 Learning with Computers in K-12 Classrooms (Irregular)
- CATE 5543 Technology for Teaching and Learning (Su, Fa)

Interest Areas (All M.Ed. students must choose an interest area) (9 hours minimum)

Elementary Education
Select four of the following:

- CIED 5173 Literacy Assessment and Intervention (Su, Fa)
- CIED 5493 Teaching Social Studies (Irregular)
- CIED 5533 Teaching Language Arts (Sp)
- CIED 5853 Issues in Mathematics Education (Irregular)
- CIED 6343 Advanced Science Teaching Methods (Irregular)

Gifted Education (9 hours basic program or 18 hours with endorsement)

- CIED 6073 Seminar in Developing Creativity (Irregular)
- CIED 6143 Differentiated Instruction for Academically Diverse Learners (Even years, Su)
- CIED 6163 Social and Emotional Components of Gifted and Talented Students (Even years, Su)
The successful defense of the thesis will represent the comprehensive exam for the M.Ed. degree. Students who choose the thesis option are not required to complete CIED 5013 or CIED 5273 or CIED 5983, but must take six hours of master's thesis credit (CIED 600V) in place of these two courses.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

**Curriculum and Instruction (Ed.S.)**

**Requirements for the Educational Specialist Degree:**

**Admission to the Program:** Students who wish to become candidates for the degree of Educational Specialist in Curriculum and Instruction are expected to first complete work equivalent to a master's degree as determined by program faculty. In addition they must apply to be admitted to the Graduate School as well as be accepted into the program by the Department of Curriculum and Instruction. As part of the application process, the applicant will be asked to provide a brief narrative consisting of an overview of previous work and educational experiences, future goals and indicating the content interest area in which he or she will pursue. This information is used to match each student with an advisor with expertise in their desired area. Some content areas are offered fully online, while others require some or all of the coursework to be completed on campus.

**Program Requirements.** The program of study for the Ed.S. in Curriculum and Instruction consists of a minimum of 33 semester hours of graduate work beyond the master's degree. This consists of a required 9 semester hours of Curriculum and Instruction Core; 9 semester hours of Research Core and requirements for the students designated content area of interest (12-18 semester hours). Each student is also required to complete a 3 semester hour Ed.S. Project which is an investigation or inquiry of the students own design which demonstrates their capacity to design, implement and evaluate an intervention independently. A grade-point average of 3.25 is required for the Educational Specialist degree program on all graduate hours completed.

Students should also be aware of Graduate School requirements with regard to specialist degrees (p. 266).

**Curriculum and Instruction (Ph.D.)**

**The Ph.D. Program in Curriculum and Instruction:** The emphasis of the Doctor of Philosophy degree program in curriculum and instruction is on the generation of new knowledge or the reformulation of existing knowledge as a basis for the development of education theory rather than solely on the improvement of educational practice. Persons working toward the Ph.D. will likely be involved in the improvement of practice, but will primarily focus on the development of research skills and the application of research endeavors to develop a theoretical basis for guiding future investigations and improving practice. The majority of those completing the Ph.D. will seek positions as professors and educational researchers in institutions of higher education.

**Prerequisites to the Doctor of Philosophy Degree Program:** Applicants for the degree of Doctor of Philosophy must meet the following requirements in addition to the applicable requirements of the University prior to admission to the degree program:

1. Have a minimum grade-point average of 3.50 on all prior graduate courses.
2. Have a master’s degree with a minimum of 33 semester hours in a related area.

3. Present Graduate Record Examinations scores of approximately 149 on the quantitative section, 151 on the verbal section, and an appropriate score on the writing portion completed no more than five years prior to the date of application.

4. Have completed a minimum of three years full-time professional teaching experience or equivalent employment experiences prior to the application to the doctoral program.

5. Demonstrate career goals and research areas that can be satisfied by the skills and interests of members of the CIED faculty which include but are not limited to instructional technology, mathematics education, social studies education, science education, career and technical education, English education, language education, educational leadership, special education, TESOL, elementary education, gifted and talented education and related areas.

6. Submit the materials requested in the supplemental application (available on line or from the CIED graduate coordinator). These materials include a personal statement, writing sample and resume. A personal interview and/or prior contact with a member of the Ph.D. faculty is highly recommended before applying.

Requirements for the Doctor of Philosophy Degree: After acceptance into the program, the candidate for the Doctor of Philosophy degree must meet the general University degree requirements, and complete a minimum of 102 semester hours of graduate study approved by the student's Doctoral Advisory Committee, including 60 semester hours taken on this campus.

The program of study for the Doctor of Philosophy candidate must include the following:

Course List

1. 33 semester hours or more in an approved master’s degree program

2. 15 hours in research and statistics to include the following:

   CIED 5313 Principles of Qualitative Research in Curriculum & Instruction (Fa) 3
   ESRM 6403 Educational Statistics and Data Processing (Sp, Su, Fa) 3
   ESRM 6453 Applied Multivariate Statistics (Sp) 3
   ESRM 6623 Techniques of Research in Education (Sp, Su) 3
   Select one of the following: 3
     CIED 6443 Mixed Methods Research (Sp) 3
     CIED 599V Special Topics (Sp, Su, Fa) 3
     ESRM 6423 Multiple Regression Techniques for Education (Fa) 3
     ESRM 6533 Qualitative Research (Sp, Fa) 3
     ESRM 6653 Measurement and Evaluation (Fa) 3
     Other 5000- or 6000-level classes with approval of advisory committee 3

Total Hours 15

3. 24 semester hours of curriculum and instruction courses to include:

   CIED 6013 Curriculum Theory, Development, and Evaluation (Odd years, Fa) 3
   CIED 6023 Instructional Theory (Irregular) 3
   Select one of the following: 3
     CIED 6043 Analysis of Teacher Education (Even years, Sp) 3
     CIED 6603 Multicultural Education (Su) 3
   Teaching Internship 3
   Research Internship 3
   CIED Electives 9

Total Hours 24

4. 18 semester hours or more of dissertation.

Note: Electives/cognate hours must be taken outside the specific program but may still be taken within the Department of Curriculum and Instruction. Elective/cognate hours may include the specialization in a content area; no more than 6 hours may be taken as independent study.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Economics (ECON)

Faculty

Andrew P. Brownback, Assistant Professor
Andrea Civelli, Assistant Professor
Robert M. Costrell, Professor, Endowed Chair in Education Accountability
William P. Curington, Professor
Gary A. Deck, Professor
Abel Embaye, Clinical Assistant Professor
Amy Lynn Farmer, University Professor, Margaret Gerig and R.S. Martin Jr. Chair in Business
Gary Ferrier, University Professor, Lewis E. Epley Jr. Professorship in Economics
Arya Gaduh, Assistant Professor
David E. Gay, University Professor
Jingping Gu, Associate Professor
Li Hao, Assistant Professor
Andrew W. Horowitz, Professor
Raja Kali, Professor, ConocoPhillips Chair in International Education
Peter Katuscak, Clinical Assistant Professor
Dongva Koh, Assistant Professor
Xiao Liu, Visiting Assistant Professor
Peter J. McGee, Assistant Professor
Peter McGhee, Assistant Professor
Muhammad Saifur Rahman, Clinical Assistant Professor
Robert Bruce Stapp, Clinical Professor

William P. Curington
Department Chair
402 Walton College of Business
479-575-ECON (3266)

Gary D. Ferrier
Ph.D. and M.A. Program Director
328 Walton College of Business
479-575-7105 Normal 0 false false false EN-US X-NONE X-NONE /
* Style Definitions */ table.MsoNormalTable {mso-style-name:"Table Normal"; mso-
requirements are (1) a bachelor’s degree from an accredited institution of Business and be accepted by the Department of Economics. The applicant for graduate studies must meet the requirements of the Graduate School.

Applicants for graduate studies (ECON)

Degrees Conferred:

M.A., Ph.D. (ECON)

Master of Arts in Economics

Prerequisites to Degree Program: Applicants for graduate studies in economics must meet the requirements of the Graduate School of Business and be accepted by the Department of Economics. The requirements are (1) a bachelor’s degree from an accredited institution with a satisfactory grade-point average, (2) a satisfactory score on the Graduate Record Examinations (GRE) and (3) satisfactory performance in the following courses: intermediate microeconomics, intermediate macroeconomics, statistics, two semesters of calculus, and linear algebra. Students from all academic backgrounds are encouraged to apply.

Degree Options: Students must select the Non-Thesis or Thesis option. Both options combine a study of economic theory, applied econometrics and an applied field that will prepare students for careers in the private or public sector, or for doctoral programs. The Non-Thesis option can be completed in one year. The Thesis option is for students who seek more advanced skills. It requires additional coursework and a thesis, and will take three or four semesters to complete.

Common Requirements for the Master of Arts Degree, Non-Thesis and Thesis Options: All master’s students must satisfactorily complete the 30 hours of course work listed below. Students must have a 3.00 cumulative grade point average in order to graduate. If at any point, a student’s cumulative GPA falls below a 3.00, the student will be placed on academic probation. A student with a cumulative GPA below 3.00 for two consecutive semesters will be dismissed from the program.

Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 5233</td>
<td>Mathematics for Economic Analysis (Su)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 5533</td>
<td>Microeconomic Theory I (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 6233</td>
<td>Microeconomic Theory II (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 5433</td>
<td>Macroeconomic Theory I (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 6243</td>
<td>Macroeconomic Theory II (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 6613</td>
<td>Econometrics I (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 6623</td>
<td>Econometrics II (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 6633</td>
<td>Econometrics III (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 643V</td>
<td>Seminar in Economic Theory and Research I (Fa)</td>
<td>1-3</td>
</tr>
<tr>
<td>ECON 644V</td>
<td>Seminar in Economic Theory and Research II (Sp)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Total Hours

23-27

Applied Field Concentration: 6 hours. Each student shall complete at least six hours of coursework in one applied field. Students who seek advanced training in applied economics and business in preparation for entering business or government employment should select one of the following fields: finance, accounting, marketing, transportation, information systems, or quantitative methods. Students who plan to enter a doctoral program should choose mathematics or statistics as their field. Other concentrations are possible with the approval of the Program Coordinator.

Graduate Seminar (3 hours):

Students must register for at least one hour of graduate seminar each semester they are in residence.

Additional Degree Requirements, Non-Thesis Option (30 hours):

In addition to 30 hours of required coursework, students who select the non-thesis option must take a comprehensive exam. Students must pass written exams in microeconomics and macroeconomics. The final exam at the end of ECON 6233 Microeconomic Theory II (Sp) and ECON 6243 Macroeconomic Theory II (Sp) will be comprehensive over both Micro I & II and Macro I & II. These two exams will be taken by all students in the course and will serve as the comprehensive exam for master’s students. Each exam has three possible grades: Pass, Marginal Pass, and Fail. Students must earn at least a Marginal Pass on both exams.

Should a Ph.D. student later decide to receive the master’s degree, the master’s comprehensive examination requirement will have been satisfied.
if the student received at least a Marginal Pass on both exams. These exams will be developed and graded by the instructor of record for the course. In cases where a student’s performance might produce a “Fail,” the instructor will consult with the faculty who normally develop the Ph.D. preliminary examination in that area.

Additional Degree Requirements, Thesis Option (Minimum of 42 hours): This option is intended for students who seek the acquisition of advanced analytical and research skills. Students who select the Thesis option must pass 30 hours of required coursework specified above, 12 additional hours of coursework – 6 hours approved by the Program Director and 6 hours of thesis credit, and pass a comprehensive exam. The comprehensive exam will take the form of a formal thesis defense.

Ph.D. in Economics
Prerequisites to Degree Program: Students may enter the program directly from a bachelor’s degree or a master’s degree program. Applicants for graduate studies in economics must meet the requirements of the Graduate School of Business and be accepted by the Department of Economics. The requirements are (1) a bachelor’s degree from an accredited institution with a satisfactory grade-point average, (2) a satisfactory score on the Graduate Record Examinations (GRE) and (3) satisfactory performance in the following courses: intermediate microeconomics, intermediate macroeconomics, statistics, two semesters of calculus, and linear algebra. Students from all academic backgrounds are encouraged to apply.

Requirements for the Doctor of Philosophy Degree: The doctoral program consists of
1. Core requirements
2. Candidacy
3. Field Examinations
4. Dissertation
5. Final Examination

Core Requirements: All doctoral candidates must satisfactorily complete the 39 hours of course work listed below. Students must also register for graduate seminar each semester they are in residence. Students must have a 3.00 cumulative grade point average in order to graduate. If at any point, a student’s cumulative GPA falls below a 3.00 the student will be placed on academic probation. A student with a cumulative GPA below 3.00 for two consecutive semesters will be dismissed from the program.

**Education Policy (EDPO)**

Faculty
Robert M. Costrell, Professor, Endowed Chair in Education Accountability
Jay Phillip Greene, Distinguished Professor, Endowed Chair in Education Reform
Robert Anthony Maranto, Professor, Endowed Chair in Leadership
Gary Ritter, Professor, Endowed Chair in Education Policy
Patrick J. Wolf, Distinguished Professor, Endowed Chair in School Choice
Gema Zamarro Rodríguez, Associate Professor, Endowed Chair in Teacher Quality
Department of Education Reform
Jay P. Greene
Department Head
201 Graduate Education Building
479-575-3172
E-mail: jpg@uark.edu

Patrick J. Wolf
Graduate Director
219 Graduate Education Building
479-575-2084
E-mail: pwolf@uark.edu

Dirk C. van Raemdonck
Graduate Coordinator
202 Graduate Education Building
479-575-5597
E-mail: dvanraem@uark.edu

http://www.uark.edu/ua/der/

Degrees Conferred:
Ph.D. in Education Policy (EDPO)
The Ph.D. in Education Policy is designed to prepare policy-oriented scholars for careers in academia, think tanks, and public service in the field of K-12 education policy. The program of study is based on the social sciences and other academic disciplines, supported by empirical research. The program has five components: (i) core courses to establish the disciplinary base and intellectual framework; (ii) research methods to prepare for empirical work; (iii) field seminars in the key education reform fields, to understand and contribute to research behind key policy debates; (iv) electives to pursue further specialization; and (v) dissertation, following completion of comprehensive exams.

Admission to the Program: In addition to meeting university requirements for admission to the Graduate School, applicants should have combined GRE scores of 304, writing score of 4.0, and minimum GPA of 3.0 undergraduate or 3.5 in a masters' program. Admission is based on the individual's total profile, with special attention given to those with professional experience in education policy. Those students who have completed calculus and statistics courses prior to arriving on campus will more readily satisfy the prerequisites for the program's research methods sequence.

Program of Study
Core Courses
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDRE 5053</td>
<td>Philosophy and History of Education and Education Reform (Even years, Sp)</td>
<td>3</td>
</tr>
<tr>
<td>EDRE 6023</td>
<td>Economics of Education (Odd years, Sp)</td>
<td>3</td>
</tr>
<tr>
<td>EDRE 6033</td>
<td>Politics of Education (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>EDRE 6043</td>
<td>Finance and Education Policy (Even years, Sp)</td>
<td>3</td>
</tr>
<tr>
<td>EDRE 6053</td>
<td>Measurement of Educational Outcomes (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

Research Methods
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDRE 6103</td>
<td>Quantitative Analytical Techniques for Education Policy (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 6613</td>
<td>Econometrics I (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>or AGEC 5613</td>
<td>Econometrics (Sp)</td>
<td></td>
</tr>
<tr>
<td>EDRE 6213</td>
<td>Program Evaluation and Research Design (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>EDRE 6223</td>
<td>Research Seminar in Education Policy (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

Education Reform Fields
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDRE 6413</td>
<td>Issues in Education Policy (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>EDRE 6423</td>
<td>Seminar in School Choice Policy (Even years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>EDRE 6433</td>
<td>Seminar in Education Accountability Policy (Odd years, Sp)</td>
<td>3</td>
</tr>
<tr>
<td>EDRE 6443</td>
<td>Seminar in Education Leadership Policy (Odd years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>EDRE 6453</td>
<td>Seminar in Teacher Quality and Public Policy (Even years, Sp)</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Students will take four electives, which typically will be a combination of relevant course offerings in other departments and directed research projects. The specific electives will all be subject to approval of the Education Policy graduate director, and may include subjects such as education law, qualitative methods, advanced quantitative methods, organizational theory, etc. Directed research projects could be either of the student’s own design or within the context of one of the various research projects underway in the Department of Education Reform.

Dissertation
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDRE 700V</td>
<td>Doctoral Dissertation (Irregular)</td>
<td>18</td>
</tr>
</tbody>
</table>

Total Hours 72

Students will take a written qualifying examination after the spring term of the first year, covering research methods, with applications to the first-year content courses. The field exams, with both written and oral components, will ordinarily be taken in the fall or spring of the third year, covering the student’s choice of two fields.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Educational Foundations (EDFD)
See Educational Statistics and Research Methods (p. 99).

Educational Leadership (EDLE)
Carl Holt
Program Coordinator
107 Peabody Hall
479-575-5112
E-mail: cholt@uark.edu
Website: http://edad.uark.edu/

Degrees Conferred:
M.Ed. in Educational Leadership (EDLE)
Ed.S. in Educational Leadership (EDLE)
Ed.D. in Educational Leadership (EDLE)

Graduate Certificates Offered (non-degree):
Arkansas Curriculum/Program Administrator (ACPA)
Building-Level Administration (PSBL)
District-Level Administration (PSDL)

The Educational Leadership degrees and certificates are designed to prepare qualified persons for a variety of leadership roles.

Placement of recent graduates: Principalships and other school-site administrative and supervisory positions; superintendents and other
Candidates will complete required course projects and activities related to the area of specialization.

**Educational Leadership Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLE 5013</td>
<td>School Organization and Administration (Odd years, Su)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 5043</td>
<td>Leadership Ethics (Odd years, Su)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 5063</td>
<td>Instructional Leadership, Planning, and Supervision (Odd years, Su)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 5083</td>
<td>Analytical Decision-Making (Sp) (Even years, Su)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 5093</td>
<td>Effective Leadership for School Improvement (Sp, Su)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 674V</td>
<td>PhD Research Internship (Sp, Su, Fa)</td>
<td>6</td>
</tr>
</tbody>
</table>

**Special Education Courses (15 hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIED 532V</td>
<td>Practicum in Special Education (Irregular)</td>
<td>1-6</td>
</tr>
<tr>
<td>SPED 5733</td>
<td>Inclusive Practices for Diverse Populations (Odd years)</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5783</td>
<td>Professional and Family Partnerships (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5893</td>
<td>Organization, Administration and Supervision of Special Education (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>SPED 6433</td>
<td>Legal Aspects of Special Education (Irregular)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Curriculum and Instruction (15 hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIED 5423</td>
<td>Curriculum and Instruction: Models and Implementation (Odd years, Sp)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 5453</td>
<td>Evaluation Techniques (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 5613</td>
<td>Contemporary Issues in Education (Odd years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 6013</td>
<td>Curriculum Theory, Development, and Evaluation (Odd years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 674V</td>
<td>PhD Research Internship (Sp, Su, Fa)</td>
<td>1-6</td>
</tr>
</tbody>
</table>

Prerequisites at the master’s level may be required according to the candidate’s area of specialization. A faculty representative from the area of specialization will make this determination at the time of admission.

**Prerequisites for Acceptance to the M.Ed., Ed.S., and Ed.D. Programs:** In addition to meeting university requirements for admission to the Graduate School, all candidates seeking admission to any educational leadership program must complete program application procedures, which are described on the program website (http://edle.uark.edu).

Admissions for the Masters and Specialist degrees are rolling. Early doctoral admissions decisions are made in January, regular doctoral admissions decisions are made in March and wait-listed students are notified in May.

**Requirements for the Master of Education (M.Ed.) Degree (33 hours):** The master’s degree in Educational Leadership is designed primarily to provide professional preparation for students seeking administrative positions in elementary and secondary schools. It requires the following:

1. Completion of the following required common courses in Educational Leadership (24 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLE 5013</td>
<td>School Organization and Administration (Odd years, Su)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 5023</td>
<td>The School Principalship (Sp, Su)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 5043</td>
<td>Leadership Ethics (Odd years, Su)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 5053</td>
<td>School Law (Odd years, Su)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 5063</td>
<td>Instructional Leadership, Planning, and Supervision (Odd years, Su)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 5083</td>
<td>Analytical Decision-Making (Sp) (Even years, Su)</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: If the certificate candidate is an experienced and practicing administrator at another administrative licensure level, the six required courses may be reduced by one course for a total of 15 hours past prerequisites. All certificate programs of study courses must be completed within five years before submission to the Arkansas Department of Education.
Completion of nine credit hours from foundations courses, including:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLE 5033</td>
<td>Psychology of Learning (Sp) (Odd years, Su)</td>
<td>3</td>
</tr>
<tr>
<td>or EDFD 5373</td>
<td>Psychological Foundations of Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 5073</td>
<td>Research for Leaders (Sp) (Odd years, Su)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 5003</td>
<td>Schools and Society (Even years, Su)</td>
<td>3</td>
</tr>
</tbody>
</table>

A cumulative grade-point average of at least 3.00 on all course work is required for the degree. No grades below “C” will be accepted for graduate degree credit.

Satisfactory performance on a written comprehensive examination or portfolio presentation is required.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Requirements for the Educational Specialist Degree (30 hours post Masters): The specialist degree program in Educational Leadership is designed primarily to provide professional preparation for students involved in school-site administration and those individuals who have district-wide administrative responsibilities.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLE 6023</td>
<td>School Facilities Planning and Management (Odd years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 6053</td>
<td>School-Community Relations (Even years, Sp)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 6093</td>
<td>School District Governance: The Superintendency (Even years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 6103</td>
<td>School Finance (Odd years, Sp)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 6173</td>
<td>School Business Management (Odd years, Su)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 674V</td>
<td>Internship (Sp, Su, Fa)</td>
<td>1-6</td>
</tr>
<tr>
<td>EDLE 6333</td>
<td>Advanced Legal Issues in Education (Even years, Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

The following three research courses are to be taken in sequence:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLE 6503</td>
<td>Topics in Educational Research for School Administration (Odd years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>or ESRM 6403</td>
<td>Educational Statistics and Data Processing (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 6513</td>
<td>Program Evaluation in Education (Sp)</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: Prior to District-Level Licensure application, all students must present a culminating project to a committee of faculty with practitioner representation for the district-level license.

Students should also be aware of Graduate School requirements with regard to specialist degrees (p. 266).

Requirements for the Doctor of Education Degree:

Requirements for the Ed.D. degree in Educational Leadership include:

1. Completion of the courses required for the Master of Education degree in Educational Leadership
2. Completion of the courses required for the Educational Specialist degree in Educational Leadership

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLE 6533</td>
<td>Educational Policy (Odd years, Sp)</td>
<td>3</td>
</tr>
</tbody>
</table>

ESRM 6533 Qualitative Research (Sp, Fa) 1-3
or HRWD 572V Workshop (Irregular)
EDLE 699V Seminar (Sp, Su, Fa) 1 1-6

1 Seminar, taken on campus three times for one credit each. Doctoral students will come to campus to meet with faculty and practitioners for a one-credit seminar that will serve as a valuable capstone for the distance experience. The meaningful campus experience will be an intensive long weekend cohort seminar on the University of Arkansas campus. Each cohort weekend will be focused on a theme that connects theory with practice and includes mini-lectures by scholars and practitioners in the field, facilitated discussion groups, and lively debate of critical issues facing school leaders. The intent of the cohort weekend is to build relationships, introduce students to leaders in the field and expose them to interactive, hands-on learning experiences that lend themselves more easily to the face-to-face environment.

Nine credit hours from either the qualitative track or the quantitative track:

**Qualitative Track**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLE 6553</td>
<td>Advanced Qualitative Methods in Educational Research (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>or ESRM 6543</td>
<td>Advanced Qualitative Research (Sp)</td>
<td></td>
</tr>
<tr>
<td>EDLE 6563</td>
<td>Advanced Data Collection for Program Evaluation (Odd years, Fa) (Prerequisite: EDLE 6513 Program Evaluation in Education; this course may be taken after the comprehensive exam)</td>
<td>3</td>
</tr>
<tr>
<td>EDLE 6573</td>
<td>Advanced Empirical Analysis for Program Evaluation (Sp) (may be taken after the comprehensive exam)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Quantitative Track**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESRM 6413</td>
<td>Experimental Design in Education (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ESRM 6423</td>
<td>Multiple Regression Techniques for Education (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ESRM 6623</td>
<td>Techniques of Research in Education (Sp, Su)</td>
<td>3</td>
</tr>
</tbody>
</table>

18 semester hours of dissertation credit

A minimum grade point average of at least 3.25 on all graduate course work, and on all course work presented for the Ed.D. degree.

Satisfactory completion of all requirements governing the written and oral examinations for the candidacy examination, the dissertation, and the final oral dissertation defense. The Ed.D. degree must be completed within seven years from the date the Declaration of Intent is signed.

The program of study must comply with university residency requirements.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

**Educational Statistics and Research Methods (ESRM)**

**Faculty**

- Jenna Cambria, Assistant Professor
- Xinya Liang, Assistant Professor
- Wen-Juo Lo, Associate Professor
- Sean W. Mulvenon, Professor
- Charles E. Stegman, Professor
Graduate Certificate in Educational Program Evaluation:
The graduate certificate in Educational Program Evaluation recognizes students who take a concentrated core of courses focused on systematic studies, both through courses and Independent research. Graduates can obtain employment with school districts, educational agencies, and industries with internal data analysis needs.

Prerequisites for Acceptance to the Graduate Certificate Programs:
In addition to meeting University requirements for admission to the Graduate School, applicants must have earned a master’s degree with a 3.25 cumulative GPA and minimum scores on the Graduate Record Examinations at the 48th percentile Verbal, the 56th percentile Quantitative and the 29th percentile on Analytic Writing OR be currently enrolled in a doctoral program at the University of Arkansas.

Certificate Requirements: 18 semester hours from the list of courses for a certificate with a grade-point average of 3.50.

Graduate Certificate in Educational Program Evaluation: The graduate certificate in Educational Program Evaluation recognizes students who take a concentrated core of courses focused on systematic and rigorous evaluation of educational programs and policies. Students who earn this certificate have a working knowledge of qualitative and quantitative evaluation procedures and can use these to plan, conduct, and report on evaluations.

Program Of Study
ESRM 6403 Educational Statistics and Data Processing (Sp, Su, Fa) 3
ESRM 6413 Experimental Design in Education (Sp) 3
ESRM 6613 Evaluation of Policies, Programs, and Projects (Fa) 3
ESRM 6533 Qualitative Research (Sp, Fa) 3
ESRM 6633 Survey Research Methods (Even years, Sp) 3
Select one of the following: 3
ESRM 6423 Multiple Regression Techniques for Education (Fa)
ESRM 6453 Applied Multivariate Statistics (Sp)
ESRM 6543 Advanced Qualitative Research (Sp)
ESRM 6653 Measurement and Evaluation (Fa)

Total Hours 18

Graduate Certificate in Educational Psychology:
The graduate certificate in Educational Psychology recognizes students who take a concentrated core of courses focused on educational psychology. Students who earn this certificate develop a foundational understanding of educational psychology theories, application of theory to educational practices and evaluation, and methods for identifying issues that arise in the learning process for learners of all ages.

Program Of Study
EDFD 5373 Psychological Foundations of Teaching and Learning (Irregular) 3
EDFD 5573 Life-Span Human Development (Sp, Su, Fa) 3
EDFD 5673 Principles of Motivation (Sp) 3
EDFD 5773 Advanced Topics in Educational Psychology (Even years, Fa) 3
Select two of the following: 6
ESRM 6413 Experimental Design in Education (Sp)
ESRM 6423 Multiple Regression Techniques for Education (Fa)
ESRM 6653 Measurement and Evaluation (Fa)

Total Hours 18

Graduate Certificate in Educational Measurement: The graduate certificate develops professionals in the areas of measurement, testing, and assessment, through courses in the area of instrument development and research design. Graduates can obtain employment with educational agencies and industries with assessment and research analysis needs.

Program Of Study
ESRM 5653 Educational Assessment (Irregular) 3
ESRM 6403 Educational Statistics and Data Processing (Sp, Su, Fa) 3
ESRM 6653 Measurement and Evaluation (Fa) 3
ESRM 6753 Item Response Theory (Odd years, Sp) 3
Select one of the following: 3
ESRM 6613 Evaluation of Policies, Programs, and Projects (Fa)
ESRM 6633 Survey Research Methods (Even years, Sp)
Select one of the following: 3
ESRM 6413 Experimental Design in Education (Sp)
ESRM 6423 Multiple Regression Techniques for Education (Fa)

Total Hours 18

Graduate Certificate in Educational Statistics and Research Methods:
The graduate certificate in Educational Statistics and Research Methods recognizes students who complete a core of courses focused on developing theoretical, application, and interpretative aspects of statistical techniques and research methods. Graduate students completing this certificate will also develop comprehensive programming and data management skills necessary for today’s academic researcher.

Program Of Study
ESRM 6403 Educational Statistics and Data Processing (Sp, Su, Fa) 3
ESRM 6413 Experimental Design in Education (Sp) 3
ESRM 6653 Measurement and Evaluation (Fa) 3
Doctor of Philosophy in Educational Statistics and Research Methods:

The increased emphasis on educational accountability and data-driven decision making to improve public school institutions, as well as greater reliance on empirical research and analysis in public policy and educational studies, have led to a greater need for experts in educational statistics and research methods. The Educational Statistics and Research Methods doctoral program develops professionals who can lead in these areas through coursework and independent research in educational statistics, research design, assessment, and program evaluation.

Admission Requirements for the Ph.D. Degree: In addition to meeting University requirements for admission to the Graduate School, applicants should have an earned master's degree with a minimum 2.75 GPA and scores on the Graduate Record Examinations at the 48th percentile Verbal, the 65th percentile Quantitative and the 48th percentile on Analytic Writing. Higher performance on the quantitative component of the GRE may compensate for a lower GPA in admissions decisions.

Requirements for the Ph.D. Degree: Students must complete all requirements of the Graduate School for the Doctor of Philosophy degree, and complete an approved program of study including a minimum of 36 credit hours of core courses, 9 hours of elective courses, and 18 credit hours of doctoral dissertation. Coursework must be completed with a cumulative grade average of at least 3.25, with no credit for courses with a grade of “C” or lower.

Elective ETEC Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETEC 5203</td>
<td>Foundations of Educational Technology (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ETEC 5213</td>
<td>Introduction to Educational Media (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ETEC 5243</td>
<td>Instructional Design Theory &amp; Models (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ETEC 5313</td>
<td>Principles in Visual Literacy (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>ETEC 5373</td>
<td>Web Design (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>ETEC 6223</td>
<td>Strategic Planning and IDT Programs (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ETEC 6253</td>
<td>Distance Learning (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>ETEC 5981</td>
<td>Eportfolio Production (Sp, Su, Fa)</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Hours: 45

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Educational Technology (ETEC)

Cheryl Murphy
Program Coordinator
101 Peabody Hall
479-575-5111
E-mail: cmurphy@uark.edu

The Educational Technology Program is a 34-hour non-thesis on-line master’s program that prepares students for professional positions as educational technologists of education, business, government, and the health professions.

Prerequisites to Degree Programs: Applicants for the M.Ed. degree must have completed a bachelor’s degree and earned a 3.00 GPA on the last 60 hours of undergraduate course. Applicants with an earned GPA of 2.7-2.9 on the last 60 hours of undergraduate course work may be considered if an acceptable score on the Graduate Record Examinations or Miller Analogies Test is obtained.

Requirements for the Master of Education Degree: In addition to the general requirements of the Graduate School, students must complete a minimum of 34 hours of graduate course work to include 22 semester hours of core educational technology courses, nine semester hours of elective educational technology courses, and three semester hours of research. Additionally, a Culminating Student Portfolio must be successfully completed in the last semester of course work in the EPortfolio Production course and will replace the Graduate School requirement of a comprehensive examination.

Degree Requirements: (34 hours)

1. Educational Technology Core: 22 hours
2. Educations Technology Electives: 9 hours
3. College of Education and Health Professions research course: 3 hours
4. Culminating Student Portfolio: Completed during the last semester of course work.

Required ETEC Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETEC 5203</td>
<td>Foundations of Educational Technology (Sp, Su, Fa)</td>
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<tr>
<td>ETEC 5213</td>
<td>Introduction to Educational Media (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ETEC 5243</td>
<td>Instructional Design Theory &amp; Models (Fa)</td>
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</tr>
<tr>
<td>ETEC 5313</td>
<td>Principles in Visual Literacy (Irregular)</td>
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</tr>
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<tr>
<td>ETEC 6223</td>
<td>Strategic Planning and IDT Programs (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ETEC 6253</td>
<td>Distance Learning (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>ETEC 5981</td>
<td>Eportfolio Production (Sp, Su, Fa)</td>
<td>1</td>
</tr>
</tbody>
</table>

Elective ETEC Courses

Select three of the following: 9

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETEC 5253</td>
<td>Information Technologies (Irregular)</td>
<td>3</td>
</tr>
</tbody>
</table>
E-mail: eleggrad@uark.edu  
479-575-6052
Graduate Program Coordinator
3217 Bell Engineering Center

electrical-engineering.uark.edu

Degrees Conferred:

M.S.E.E. (ELEG)
Ph.D. in Engineering (ENGR) (See Engineering (p. 103))

Primary Areas of Faculty Research: Communications, digital signal processing and sensor networks; electronics and electronic packaging, analog and mixed signal, and integrated circuits; power systems, power electronics, renewable energy and control; RF and microwave, electromagnetics, antennas, and terahertz; semiconductors, nanotechnology, optoelectronics, photovoltaic and photonics

Requirements for Graduate Degrees: In addition to the requirements of the Graduate School and the College of Engineering, the following departmental requirements must be satisfied by candidates for advanced degrees in electrical engineering.

1. Candidates for the Master of Science degree who present a thesis are required to complete a minimum of 24 semester hours of course work and six semester hours of thesis.

2. Candidates for the Master of Science degree who do not present a thesis are required to complete a minimum of 30 semester hours of course work.

3. Course work presented for the degree of Master of Science must include a minimum of 12 semester hours at the 5000- or 6000-level in electrical engineering. At least 15 (21 for non-thesis option) hours of the student's graduate course work must be ELEG courses. No more than six hours of ELEG 588V may be presented for degree credit.

4. Students who complete a B.S. degree in Electrical Engineering at the University of Arkansas, Fayetteville, with a GPA of 3.5 or greater may count towards the M.S. degree up to six hours of ELEG graduate-level coursework completed as an undergraduate student.

5. Candidates for the M.S.E.E. degree must take an M.S. Readiness Assessment exam during their first semester of graduate work. This exam is administered by the student’s major professor and advisory committee, and is designed to assess the student’s undergraduate preparation for his or her graduate work. The student may be required to take whatever undergraduate courses are deemed necessary in addition to the graduate courses specified in items 1-3.

6. The M.S.E.E. degree includes a distance education option for which students complete most or all of their coursework using distance education courses. The use of this option is subject to approval by the student's major professor, and to the availability of sufficient distance education courses in the student's specialty areas to enable completion of the M.S.E.E.

7. The M.S.E.E. degree will allow transfer of up to nine credit hours of graduate level coursework from universities with which the University of Arkansas has a "1+1" M.S.E.E. exchange program. This is an exception to the Graduate School rule that only six hours may be transferred. Each course transferred must be graduate level, and must be approved for transfer by the Electrical Engineering Graduate Committee. The transferred courses will not count toward the M.S.E.E. requirement for 5000 or 6000 level ELEG courses.

8. Any other conditions as stipulated in the departmental guidelines for master’s degrees.

Electrical Engineering (ELEG)

Faculty

Simon S. Ang, Professor
Juan Carlos Balda, University Professor, Twenty-First Century Leadership Chair in Engineering
Zhong Chen, Assistant Professor
Samir M. El-Ghazaly, Distinguished Professor
Magda O. El-Shenawee, Professor
Michael D. Glover, Research Assistant Professor
Baohua Li, Research Assistant Professor
Omar Manasreh, Professor
Alan Mantooth, Distinguished Professor, Twenty-First Century Chair in Mixed-Signal IC Design and CAD
Terry W. Martin, Professor
Roy A. McCann, Professor
Hameed A. Naseem, University Professor
James M. Rankin, Professor
Robert F. Saunders, Instructor
Silke Spiesshoefer, Clinical Assistant Professor
Morgan Ware, Assistant Professor
Jingxian Wu, Associate Professor
Fishner Yu, Associate Professor
Yue Zhao, Assistant Professor
Juan Balda
Department Head
3220 Bell Engineering Center
479-575-3005/3009
E-mail: jbalda@uark.edu

Robert Saunders
Interim Assistant Department Head
3220 Bell Engineering Center
479-575-3005/3009
E-mail: rsaunder@uark.edu

Hameed Naseem
The program of study for the Ph.D. degree must satisfy the following:

1. If the student does not have an M.S. degree, a minimum of 42 hours of course work (excluding dissertation hours) beyond the bachelor’s degree must be presented in the Ph.D. program. If the student has an M.S. degree, a minimum of 42 hours of course work (excluding thesis and dissertation hours) must be presented in the combined M.S. and Ph.D. programs.

2. The course work specified in item (a) must include a minimum of 30 hours of course work at the 5000 and 6000 level, and at least 24 of these 5000- and 6000-level hours must be in electrical engineering.

3. The course work specified in item (a) must include GRSD 5003 or MEPH 5383.

4. The doctoral program must include at least 72 hours of course work and thesis or dissertation hours. A maximum of six of these hours may be thesis hours. The remaining hours that are not course work must be dissertation. The Graduate School requires a minimum of 18 hours of dissertation for graduation.

5. Candidates for the Ph.D. degree must take a Ph.D. Readiness Assessment exam during their first semester of graduate work. This exam is administered by the student’s major professor and advisory committee, and is designed to assess the student’s readiness to conduct research during his or her graduate work. The student may be required to take whatever undergraduate courses are deemed necessary in addition to the graduate courses specified above.

6. It is emphasized that the course work specified above represents minimums, and many students’ programs will include more than this minimum, particularly if the student has an M.S.E.E. degree from a school that is not a recognized graduate school in the United States.

7. Other conditions as stipulated in departmental guidelines for doctoral degrees.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261) and doctoral degrees (p. 266).

Engineering, College of (ENGR)
http://www.engr.uark.edu/

Degrees Conferred:
M.S.E., Ph.D. (ENGR)

The College of Engineering offers instruction in engineering leading to the degrees of Master of Science in Biological, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Industrial, and Mechanical Engineering as well as a Master of Science in Operations Management and a Doctors of Philosophy in Engineering and Computer Science. Descriptions and requirements of these degree programs may be found under separate departmental headings. In addition, a Master of Science in Engineering (M.S.E.) degree is available for students who wish to take a broader range of courses than is usually permitted for the designated degrees listed above.

General Requirements for the Master of Science Degrees in the College of Engineering
In addition to the requirements of the Graduate School, the following requirements have been established by the College of Engineering for all Master of Science graduates:

1. Complete a minimum of 30 semester hours of graduate-level credit beyond the bachelor’s degree that includes 50 percent graduate-level credit in the field of study.

2. Earn a minimum cumulative grade-point average of 3.00 on all graduate courses attempted.

Departments may set higher grade standards and additional requirements.

Master of Science in Engineering Degree: The M.S.E. degree is available as a distance-delivered option. Courses are offered in five 8-week terms each year. A Master of Science in Engineering (M.S.E.) degree is available for students who wish to take a broader range of courses than is usually permitted for the designated degrees listed in the previous paragraph.

Prerequisites to the Master of Science in Engineering Degree:
Students with a B.S. degree from any engineering program accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology are normally accepted into the M.S.E. program.

Requirements for the Master of Science in Engineering Degree:
The general minimum requirements of the Graduate School for Master of Science degrees must be met. The graduate faculty of the College of Engineering has established the following specific requirements for the Master of Science in Engineering degree:

1. Complete a minimum of 30 semester hours of graduate-level credit beyond the bachelor’s degree. Up to 6 semester hours of project research can be used to satisfy the required 30 semester hours of credit by writing a project paper approved by the departmental faculty.

2. Course requirements:
   a. One 3-hour course from each of the following four areas for a total of 12 hours: mathematics, computer applications, technical communications, and engineering management;
   b. Three 3-hour courses from a single engineering emphasis with the approval of the advisory committee;
   c. Nine additional graduate-level hours from any area with the approval of the advisory committee, with:
   d. A maximum of four 4000-level graduate courses, with the remainder at the 5000 level or higher; and
   e. A maximum of four Operations Management (OMGT) courses

3. Earn a minimum cumulative grade-point average of 3.00 on all graduate courses attempted. Minimum grades of “B” are required on 80 percent of the graduate hours taken for credit towards the M.S.E. degree.

4. Satisfactorily complete a comprehensive examination.

The program of study for each candidate will be determined by conference with the major professor and with advice from the candidate’s graduate committee.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

General Requirements for the Doctor of Philosophy Degree in Engineering
The program of study leading to the degree of Doctor of Philosophy in Engineering will vary, depending upon the major field of study and the objective of the prospective candidate. Program requirements
balance credit hours for required coursework, research, and dissertation preparation.

In addition to the requirements of the Graduate School, the following requirements have been established by the College of Engineering for all doctoral graduates:

1. A minimum of 72 semester hours of graduate-level credit beyond the bachelor’s degree.
2. A minimum of 42 semester hours of graduate-level credit beyond the master’s degree.

Departments may set higher grade standards and additional requirements. (See department requirements.) Students from non-engineering backgrounds typically will be required to take selected fundamental engineering courses.

Major areas of study for the Doctor of Philosophy Degree in Engineering are as follows:

- Biological Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Industrial Engineering
- Mechanical Engineering

The Graduate School also offers a Doctor of Philosophy in Computer Science (p. 85).

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

English (ENGL)

Faculty

M. Keith Booker, Professor
Geoffrey Arthur Brock, Professor
Sidney J. Burris, Professor
Joseph D. Candido, Professor
Robert Brady Cochran II, Professor
Geoffrey Davis, Assistant Professor
Sean A. Dempsey, Assistant Professor
Elias Dominguez Barajas, Associate Professor
John Tabb DuVal, Professor
Ellen Louise Gilchrist, Clinical Professor
Michael Joseph Heffernan, Professor
Lisa Hinrichsen, Associate Professor
Toni Jensen, Assistant Professor
David Alton Jolliffe, Professor, Brown Chair in English Literacy
Mohja Kahf, Associate Professor
Casey Lee Kayser, Clinical Assistant Professor
Mary Beth Long, Visiting Assistant Professor
Susan M. Marren, Associate Professor
Davis McCombs, Associate Professor
Yajaira Padilla, Associate Professor
Adam Pope, Visiting Assistant Professor
William A. Quinn, Professor
Robin Roberts, Professor
Patrick Joseph Slattery, Associate Professor

Joshua Byron Smith, Assistant Professor
Dorothy Anne Stephens, Professor
Lissette López Szywedyk-Davis, Assistant Professor
Sean Kicumma Teuton, Associate Professor
Padma Viswanathan, Assistant Professor
Kay Yandell, Assistant Professor

Dorothy A. Stephens
Department Chair
333 Kimpel Hall
479-575-4301
E-mail: dstephen@uark.edu (dstephen@uark.edu)

Lisa A. Hinrichsen
Director of Graduate Studies
333 Kimpel Hall
479-575-4301
E-mail: lhinrich@uark.edu

http://english.uark.edu/

Degrees Conferred:
M.A., Ph.D. (ENGL)
M.F.A. in Creative Writing (CRWR)

Graduate Certificate Offered (non-degree):
Technical Writing and Public Rhetorics (TWRHGC)

Areas of Study: Under each of the degree and certificate programs, the following areas of study are among those available:

- Master of Arts – history and criticism of literature in English; rhetoric, composition, and literacy.
- Master of Fine Arts – fiction, poetry, translation.
- Doctor of Philosophy – Medieval literature; Renaissance literature to 1660; Restoration and eighteenth-century British literature; nineteenth-century British literature; modern and contemporary British literature; American literature to 1900; modern and contemporary American literature; linguistics; literary criticism and theory; American southern literature and culture; world literature and culture in English; American multiculturalism; gender studies; film and media studies; popular culture and popular genres; literary history; rhetoric, composition, and literacy.
- Graduate Certificate in Technical Writing and Public Rhetorics – document design, writing for online audiences, technical editing, technical writing praxis and practice.

Prerequisites to Degree Programs and Certificate Program: Detailed instructions for the application process are on the English Department website (http://english.uark.edu). Each applicant must submit a separate application to the Graduate School and either the Director of Graduate Studies (for the M.A. and Ph.D. programs), the Director of Creative Writing (for the M.F.A. program), or the Director of Technical Writing and Public Rhetorics (for the Graduate Certificate program).

Requirements for the Master of Arts Degree

For further information about the Master of Arts Degree program, visit the "M.A./Ph.D. in English" pages (http://fulbright.uark.edu/departments/english/graduate/ma-phd-english) on the English Department website.
In addition to the general requirements of the Graduate School, the department stipulates that the following conditions be met:

1. Each candidate must complete a total of 30 credit hours.
2. Each candidate must take:
   a. ENGL 5203 Introduction to Graduate Studies (Irregular), one course emphasizing theory, and two courses at the seminar (6000) level
   b. ENGL 5213 Portfolio Workshop (Sp) (and successfully present a portfolio for the final project) or six thesis hours (and successfully defend a thesis for the final project)
      i. The candidate’s portfolio or thesis, which will be used to fulfill the comprehensive exam requirement for the degree, is evaluated by faculty committee and scored Pass/Fail.
3. Each candidate must also select either the Generalist Concentration or the Specialist Concentration and take the following courses:
   a. Generalist Concentration (Portfolio Track)
      i. Two courses selected from two of the following three areas:
         Medieval Literature and Culture; Renaissance Literature and Culture; Restoration and Eighteenth-Century British Literature and Culture
      ii. Three courses selected from three of the following five areas (at least one course being in British literature and at least one course being in American literature): Nineteenth-Century British Literature and Culture; Modern and Contemporary British Literature and Culture; American Literature and Culture before 1900; Modern and Contemporary American Literature and Culture; World Literature and Culture in English
      iii. Three elective courses offered by the Department of English or as approved by the student’s graduate advisor
   b. Generalist Concentration (Thesis Track)
      i. Two courses selected from two of the following three areas:
         Medieval Literature and Culture; Renaissance Literature and Culture; Restoration and Eighteenth-Century British Literature and Culture
      ii. Three courses selected from three of the following five areas (at least one course being in British literature and at least one course being in American literature): Nineteenth-Century British Literature and Culture; Modern and Contemporary British Literature and Culture; American Literature and Culture before 1900; Modern and Contemporary American Literature and Culture; World Literature and Culture in English
      iii. Two elective courses offered by the Department of English or as approved by the student’s graduate advisor
   c. Specialist Concentration (Portfolio Track)
      i. Five courses in one of the following areas of specialization:
         Comparative Literature; Cultural Studies; Ethnic and Regional Literatures; Gender and Sexuality; Medieval Literature; Modern American Literature; Rhetoric, Composition, and Literacy
      ii. Three elective courses offered by the Department of English or as approved by the student’s graduate advisor
   d. Specialist Concentration (Thesis Track)
      i. Five courses in one of the following areas of specialization:
         Comparative Literature; Cultural Studies; Ethnic and Regional Literatures; Gender and Sexuality; Medieval Literature; Modern American Literature; Rhetoric, Composition, and Literacy
4. Each candidate must demonstrate a reading knowledge of a language other than English that is relevant to the student’s area of study. French, German, Italian, Spanish, Russian, Ancient Greek, and Latin are the normally acceptable choices, although other languages may be used with the approval of the Director of Graduate Studies. (For details about this requirement, see section 2, a-c, under “Requirements for the Doctor of Philosophy Degree,” below.)
5. Each candidate must have a cumulative GPA of at least 3.33 for the total number of hours presented for the degree and may take a maximum of one course at the 4000 level for credit.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Requirements for the Master of Fine Arts in Creative Writing

The program leading to the degree of Master of Fine Arts in Creative Writing provides graduate-level training in creative writing and in the study of literature.

Required Courses: 60 hours are required for the M.F.A. degree.

1. Required Writing and Craft Courses
   a. Writing Workshop (15 to 24 semester hours)
   b. Craft of Fiction, Poetry, or Translation (9 hours total: 6 hours in student’s primary genre; 3 hours in second genre)
   c. Modern/Contemporary Fiction and Poetry (9 hours total; 6 hours in student’s primary genre; 3 hours in second genre)
2. Other Advanced Courses (4000-level or higher): 18-30 hours of literature or approved courses, at least 3 hours of which must be a course that focuses on literature written prior to 1900 and 3 hours of which must be a literature course that emphasizes cultural diversity.

Thesis: An M.F.A. thesis may be a collection of poems or stories or a novel. For students whose primary genre is Translation, the thesis will consist of a significant body of work (i.e., poems, stories, or a novel) translated from the original language into English. The thesis should be of the quality of those works currently published by national magazines, by literary journals, and by legitimate book publishers.

Final Examination: Each M.F.A. candidate must pass a one-hour oral examination and defense of the thesis. Awarding of the M.F.A. degree requires approval of the faculty committee.

Grade Requirement: Per Graduate School policy, M.F.A. candidates must present a minimum cumulative grade-point average of 2.85 on all graduate courses required for the degree in order to earn the M.F.A. Failing to earn such an average on the minimum number of hours, the student is permitted to present up to six additional course (not thesis) hours of graduate credit in order to accumulate a grade-point average of 2.85. In the computation of grade point, all courses pursued at this institution for graduate credit (including any repeated courses) shall be considered. Students who repeat a course in an endeavor to raise their grade must count the repetition toward the maximum of six additional hours. If a student encounters academic difficulty after having already completed six credit hours for the degree beyond the minimum degree requirements, no additional hours may be taken. Please note that the
Graduate School calculates grade-point average on all graduate-level coursework displayed on the transcript.

All students working toward the degree will plan their specific programs in consultation with their advisers. All degree requirements must be completed within six consecutive calendar years from the date of first enrollment.

Find out more about the program at the Creative Writing website. (http://mfa.uark.edu)

**Requirements for the Doctor of Philosophy Degree**

For more information about the Doctor of Philosophy Degree program, visit the "M.A./Ph.D. in English" pages (http://fulbright.uark.edu/departments/english/graduate/ma-phd-english) on the English Department website.

In addition to the general requirements of the Graduate School, the department stipulates that these requirements be met:

1. A student who begins doctoral study here may be required, at the discretion of the Director of Graduate Studies, to take certain designated deficiency courses in lieu of electives. However, these hours will count toward the 24-hour course requirement for the doctoral degree.

2. Each doctoral candidate is required to demonstrate a reading knowledge of at least one language other than English that is relevant to the student’s area of study. French, German, Italian, Spanish, Russian, Ancient Greek, and Latin are the normally acceptable choices to meet the foreign language requirement, although other languages may be used with the approval of the Director of Graduate Studies. Students who elect the medieval period as the field of specialization must demonstrate a reading knowledge of Latin, Old English, and Middle English as well as one relevant modern language. Doctoral candidates can meet the foreign language requirement by documenting that they have met a foreign language requirement at the University of Arkansas or another accredited M.A. program no more than two years before starting the Ph.D. program. This requirement should be met as early as possible in the student’s program of study, preferably before registration for doctoral dissertation hours.

For either the M.A. or Ph.D. degree, reading knowledge must be demonstrated in one of the following ways:

a. The student passes a test of reading knowledge as administered through the Department of World Languages, Literatures, and Cultures or by a member of the faculty of another department in the University who is competent to assess reading knowledge in the given language. The Department of World Languages, Literatures, and Cultures administers testing either in conjunction with Ph.D. reading courses (course number 3063) in French, German, Latin, or Spanish; or through individual examinations. Students wishing to be examined in a foreign language should contact the Department of World Languages, Literatures, and Cultures well before the test to familiarize themselves with the different requirements of each language program.

b. The student presents evidence of having completed the equivalent of one semester of graduate or upper-level undergraduate study in the given foreign language with a grade of "B" or above at an accredited college or university.

c. The student documents that the language in question is his or her native language and that he or she has native fluency in the language.

3. By the time they take the candidacy examinations, students must have completed the 24-hour course requirement or be registered for courses which, if passed, will complete the 24-hour course requirement. Students must pass both candidacy exams before registering for dissertation hours.

4. To strengthen and support a field of specialization, each student may take up to six hours of graduate course work in other departments. Subject to the approval of the student’s adviser, these hours will count toward the 24-hour course requirement for the degree.

5. Students in the doctoral program are required to complete 24 semester hours of course work for graduate credit beyond the M.A. degree. This work must include at least one course in critical theory and at least four seminar courses, at least one of which must be in the field of specialization.

6. With the consent of the Graduate Studies Committee, students will declare a field of specialization. This declaration will be made prior to the completion of the candidate’s first year of doctoral studies; it must be made before arranging to take the written candidacy examination. The field of specialization may be a period (Medieval, Renaissance to 1660, Restoration and Eighteenth-Century British, Nineteenth-Century British, Modern and Contemporary British, American to 1900, Modern and Contemporary American) or an area (Southern Literature and Culture, World Literature and Culture in English, American Multiculturalism, Gender Studies, Film and Media Studies, Literary Criticism and Theory, Popular Culture and Popular Genres, and Literary History). In conjunction with their committee and with the approval of the Director of Graduate Studies, students may propose additional fields if their particular projects do not fit within any of the suggested areas.

7. The Director of Graduate Studies in the department must be notified by each student of his or her intention to take the candidacy examinations a month before the end of the term preceding the date of the examinations, which will be scheduled by the student in consultation with the committee administering the examinations. At the time of the candidacy examinations, each student must have a grade-point average of 3.50 for courses taken beyond the master’s degree. The grade point will be on the following scale: A, 4.00; A-, 3.66; B+, 3.33; B, 3.00; etc. The plus and minus ratings are recorded on the student’s record in the Department of English only and do not appear on the official record in the Registrar’s Office.

8. Each student must pass the following candidacy examinations:
   a. A 72-hour take-home written examination in the field of specialization.
   b. An oral examination on a specific topic within the student’s broad field, approved jointly by the student and the exam committee. Students may retake only once any examination they fail.

9. Upon successfully completing the candidacy exams, each student must submit a dissertation prospectus to be discussed and approved in a formal meeting with the student’s dissertation committee.

10. Within the time limits specified by the Graduate School, each student must submit a dissertation acceptable to the student’s dissertation committee.

11. Each student must pass a dissertation defense administered by the student’s dissertation committee.

**Secondary Emphasis in Rhetoric and Composition:** Students earning the Doctor of Philosophy in English or the Master of Fine Arts in Creative
Writing may choose Rhetoric and Composition as a field of secondary emphasis. Students who choose this option are required to do the following:

**Category A**
ENGL 0002, ENGL 0013, ENGL 1013, ENGL 1023, ENGL 1023 (Special Topics)

**Category B**
ENGL 2003, ENGL 1023 (Technical Writing), ENGL 3053

**Category C**
ENGL 2013, ENGL 2023, ENGL 3013

1. Take ENGL 5003 Composition Pedagogy; ENGL 5973 Topics in Rhetoric and Composition or ENGL 6973 Seminar in Rhetoric and Composition; and an additional graduate-level course in Rhetoric and Composition approved by the Director of Composition.

2. Teach five of the following writing courses offered by the English Department in any of the following combinations:
   - Three courses from Category A and two courses from Category B, OR
   - Two courses from Category A and three courses from Category B, OR
   - Two courses from Category A, two courses from Category B, and one course from Category C

3. Earn 10 professional development points from the Program in Rhetoric and Composition by engaging in any combination of the following activities:
   - Presenting research at any Rhetoric and Composition conference (three points)
   - Organizing or leading a PRC workshop (two points)
   - Participating in a PRC workshop (one point)
   - Coordinating a PRC course or project (three points)

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

**Requirements for the Graduate Certificate in Technical Writing and Public Rhetorics**

For more information about the Graduate Certificate in Technical Writing and Public Rhetorics, visit the program’s website (http://fulbright.uark.edu/departments/english/graduate/graduate-certificate-technical-writing-public-rhetorics). In addition to the general requirements of the Graduate School, the department stipulates that the following conditions must be met:

**Requirements:** In order to complete the Graduate Certificate in Technical Writing and Public Rhetorics, students must complete 12 credit hours of coursework, with at least 6 of these hours coming from the Technical Writing and Public Rhetorics core curriculum. The additional 6 hours of credit may come from a list of approved elective courses or from additional courses from the core curriculum. Students must earn a grade of ‘B’ or better for all courses used to fulfill the requirements of the Graduate Certificate in Technical Writing and Public Rhetorics. In addition to coursework, students are required to complete a Technical Writing and Public Rhetorics Portfolio consisting of at least 4 pieces from the student's coursework in the program.

### Core Curriculum

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ENGL 5513</td>
<td>Document Design for Technical Writers (Odd years, Fa)</td>
</tr>
<tr>
<td>ENGL 5523</td>
<td>Technical Writing for Online Audiences (Even years, Fa)</td>
</tr>
<tr>
<td>ENGL 5533</td>
<td>Technical Writing Praxis (Su)</td>
</tr>
</tbody>
</table>

**Elective Courses**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ENGL 5963</td>
<td>Advanced Studies in Technical Writing and Public Rhetorics (Irregular)</td>
</tr>
<tr>
<td>ENGL 5973</td>
<td>Advanced Studies in Rhetoric and Composition (Irregular)</td>
</tr>
<tr>
<td>ENGL 6973</td>
<td>Seminar in Rhetoric and Composition (Irregular)</td>
</tr>
</tbody>
</table>

Other relevant graduate coursework will be allowed on a case-by-case basis, subject to administrative approval and topical relevancy to the graduate certificate and its aims.

**Portfolio:** Students must consult with the Director of the Graduate Certificate in Technical Writing and Public Rhetorics program during their final semester to develop and defend a portfolio. The program director will chair students' portfolio review committee; working with the director, students will choose two additional faculty members to serve on the committee and at least four pieces of writing to include in the portfolio. Students will work with the committee to polish those pieces to a level appropriate for publication or non-profit, government, or corporate use. When the portfolio is approved by the committee, students will host a public viewing of their works, and the portfolio will be added to the certificate program’s online repository of student work hosted by the university library.

### Entomology (ENTO)

**Faculty**

- **Jeffrey K. Barnes,** Curator
- **Ashley Patrick Gregg Dowling,** Associate Professor
- **Fiona Goggin,** Professor
- **John D. Hopkins,** Associate Professor
- **Donn T. Johnson,** Professor
- **Neeendra Joshi,** Assistant Professor
- **Kelly M. Loftin,** Associate Professor
- **Gus M. Lorenz,** Distinguished Professor
- **Tanja McKay,** Associate Professor
- **Nick Seiter,** Assistant Professor
- **Donald C. Steinbraus,** Professor
- **Fred M. Stephen,** University Professor
- **Glenn Studebaker,** Associate Professor
- **Allen Lawrence Szalanski,** Professor
- **Tina G. Teague,** Professor
- **Robert N. Wiedenmann,** Professor

Lona Robertson  
Interim Department Head  
319 Agriculture Building  
479-575-2451  
Email: ljrobert@uark.edu  
http://www.uark.edu/depts/entomolo/

**Degrees Conferred:**

M.S., Ph.D. (ENTO)
Primary Areas of Faculty Research: Pest management, insect pathology, insect-plant interactions, arthropod-animal interactions, biological control, molecular biology, taxonomy, systematics, physiology, and insect ecology.

Prerequisites to Degree Program: Applicants for graduate degrees must meet all requirements for admission to the Graduate School. Applicants without a master’s degree will be accepted into the departmental program based on grade-point average (GPA), letters of recommendation, résumé and an adviser in the student’s area of interest. Applicants must present Graduate Record Examination scores for the verbal, quantitative, and writing tests. To be accepted for the Master of Science degree, an undergraduate background in physical and biological sciences is essential. An undergraduate major in entomology is not required. A cumulative GPA of 3.00 is highly desirable.

To be accepted for work toward the Ph.D. degree, the student will normally have a master’s degree from an accredited institution in entomology or a closely related field. A minimum cumulative GPA of 3.25 for courses taken at the graduate level is highly desirable. Applicants without a master’s degree will be evaluated for undergraduate research experience and strong academic credentials. Applicants must present Graduate Record Examination scores for the verbal, quantitative, and writing tests.

Requirements for the Master of Science Degree: Students studying for the Master of Science degree with a limited undergraduate background in entomology may be expected to complete more than the minimum number of credit hours (30) required for the degree. A thesis, reporting original research, and a final comprehensive oral examination are required. Specific requirements follow:

General Course Requirements: The degree program and coursework for each candidate will be arranged on an individual basis. M.S. students must register for a minimum of 30 hours of graduate credit including 6 thesis hours.

Core Course Requirements: The student must take or have taken courses equivalent to:

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTO 3013</td>
<td>Introduction to Entomology (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ENTO 4024</td>
<td>Insect Diversity and Taxonomy (Even years, Fa)</td>
<td>4</td>
</tr>
<tr>
<td>ENTO 4053</td>
<td>Insect Ecology (Even years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ENTO 4123</td>
<td>Insect Pest Management (Odd years, Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ENTO 5013</td>
<td>Morphology of Insects (Odd years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ENTO 6113</td>
<td>Insect Physiology and Molecular Biology (Even years, Sp)</td>
<td>3</td>
</tr>
</tbody>
</table>

A course in statistics for graduate credit is also required. Students with credit for core courses will meet requirements with relevant courses in biology, chemistry, plant or animal science, or as approved by the Advisory Committee.

Seminar Requirements: Two semester hours of seminar are required. Seminar hours may be taken in Entomology (ENTO 6071) or as formal for-credit seminar offered in another department within the University. In addition, each student is required to present a seminar on his/her dissertation research plans during the first year of the degree program and an exit seminar on the dissertation research prior to leaving the program.

Residence Requirements: A minimum of 30 weeks in residence is required for the M.S. degree.

Grade Point Average Requirement: A minimum 3.00 GPA must be maintained. If the cumulative GPA falls below 3.00, or research or general academic progress is unsatisfactory, the student’s performance will be reevaluated by the Advisory Committee and a recommendation made on continued status as a graduate student. For details about this process, please see the Graduate Student Handbook on the departmental Web site.

Comprehensive Examination: A comprehensive oral examination covering coursework and defense of the thesis research is required. The examination is generally taken during the student’s final semester. Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Requirements for the Doctor of Philosophy Degree: A major requirement for the Ph.D. degree is a dissertation based on original research in an area of entomology. Written and oral candidacy examinations covering the student’s program of study are required. A final oral examination over course work and in defense of the dissertation is required. Specific requirements follow:

General Course Requirements: The degree program and coursework for each candidate will be arranged on an individual basis by the major professor, the Advisory Committee, and the student. A minimum of 30 hours of graduate coursework, excluding seminar, must be completed. Students progressing directly from the B.S. to the Ph.D. degree may require additional coursework as defined by the Advisory Committee.

Core Course Requirements: The student must take or have taken courses equivalent to:

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<td>3</td>
</tr>
</tbody>
</table>

A course in statistics for graduate credit is also required. Students with credit for core courses will meet requirements with relevant courses in biology, chemistry, plant or animal science, or as approved by the Advisory Committee.

Seminar Requirements: Four semester hours of seminar are required. Seminar hours may be taken in entomology (ENTO 6071) or as formal for-credit seminar offered in another department within the University. At least three of the seminar hours must be in entomology unless approved in advance by the Department Head. In addition, each student is required to present a seminar on his/her dissertation research plans during the first year of the degree program and an exit seminar on the dissertation research.

Graduate Hour Requirements: A minimum of 30 hours of graduate coursework, excluding seminar, is required.

Residence Requirement: Students must complete two consecutive semesters of full-time graduate study to achieve residency.

Grade Point Average Requirement: A minimum 3.25 GPA must be maintained. If the cumulative GPA falls below 3.25, or research or general academic progress is unsatisfactory, the student’s performance will be reevaluated by the Advisory Committee and a recommendation made on continued status as a graduate student. For details about this process,
please see the Graduate Student Handbook on the departmental Web site.

Candidacy Examination: Before completion of the fourth semester, the student will take written candidacy examinations as specified by the Advisory Committee and a comprehensive oral examination covering entomology and supporting areas. These examinations must be successfully completed at least one academic year before the degree is conferred.

Comprehensive Examination: A comprehensive oral examination covering coursework and defense of the dissertation research is required. The examination is generally taken during the student’s final semester.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Environmental Dynamics (ENDY) Faculty
Mohamed H. Aly, Assistant Professor
Mark E. Arnold, Associate Professor
Steven J. Beaupre, Professor
Steve K. Boss, Professor
Kristofer R. Brye, Professor
Ken Coffey, Professor
Jackson David Cothren, Associate Professor
Matthew D. Covington, Assistant Professor
Fiona M. Davidson, Associate Professor
Ralph K. Davis, Professor
John C. Dixon, Professor
Gregory Dumond, Assistant Professor
Song Feng, Assistant Professor
Kevin M. Fitzpatrick, University Professor, Bernice Jones Chair of Community and Family Institute
John Gaber, Professor
Johnnie L. Gentry Jr., Professor
Joel Samuel Gordon, Professor
Margaret J. Guccione, Professor
Brian Edward Haggard, Professor
Phil Hays, Associate Professor
John G. Hehr, Professor
Marvin Kay, Professor
Kenneth L. Kvanme, Professor
Fred Limp Jr., University Professor
Christopher L. Liner, Professor
Marty D. Matlock, Professor
William McComas, Professor, Parks Family Professor of Science Education
Tahar Messadi, Associate Professor
David M. Miller, Professor
Lawton Lanier Nalley, Associate Professor
Justin Murphy Nolan, Associate Professor
Thomas R. Paradise, University Professor
Giovanni Petris, Associate Professor
Joseph M. Plavcan, Professor
Jennie Sheerin Popp, Professor
Michael P. Popp, Professor
Adriana Potra, Assistant Professor
Curt R. Rom, University Professor
Jerry Rose, University Professor
Mary Cathileen Savin, Professor

David A. Schroeder, Professor
Bill Schwab, University Professor
Cari Alan Smith, Associate Professor
Kimberly G. Smith, Distinguished Professor
Frederick W. Spiegel, Distinguished Professor
David William Stahle, Distinguished Professor
Steven Lee Stephenson, Research Professor
Celina A. Suarez, Assistant Professor
Ted R. Swedenburg, Professor
Greg Thoma, Professor, Bates Teaching Professorship in Chemical Engineering
Jason A. Tullis, Associate Professor
Peter S. Ungar, Distinguished Professor
Elliott West, Alumni Distinguished Professor
Jeannie Whayne, University Professor
Doy Zachry Jr., Professor, Retired from GEOS, ENDY in 2016

Degree Conferred:
Ph.D. (ENDY)

Environmental Dynamics is the study of complex interactions between natural systems and human activity. It requires an interdisciplinary research approach and integration with the power, efficiency, and economy of advanced computer-based technologies. The program’s prime focus is human-environmental interactions within recent Earth history. It stresses interdisciplinary analyses of geophysical, biological, geochemical, and sociocultural interactions related to environmental change. An overarching objective of the ENDY program is to aid development of strategies for sustainable societies based on results of scientific research and respect for human culture. Associated research institutes and laboratories include the Archeo-Imaging Laboratory, the Arkansas Archeological Survey, the Arkansas Water Resources Center (AWRC), the Bio-Archeology Laboratory, the Center for Advanced Spatial Technologies (CAST), the Earth Visualization Laboratory, the Tree-Ring Laboratory, and the Water Quality Laboratory. Faculty from 19 departments, across six colleges, also share an interest in human and natural ecology and participate in the program.

Primary Areas of Faculty Research: Interdisciplinary research activities among faculty participating in the ENDY program are very broad, though particular areas of strength are found in dendrochronology and paleoclimatology; watershed and water resource sciences; geosciences (geomorphology, geodynamics, geodesy, geoinformatics and geospatial applications); anthropology; soil sciences; sustainability issues; ecology, ecological change, environmental pollution and land use change; and impacts of natural hazards. In addition, many research activities involve strong components of social sciences, economics and sustainable development. Interested individuals are encouraged to contact the ENDY program or participating faculty to obtain additional information related to specific research projects and possible participation.

Requirements for Admission: Applicants should hold a master’s degree in an environmental field such as anthropology, geography, geology, biological sciences, crop, soil, and environmental sciences, or environmental engineering, or in a social science field with an
environmental focus (e.g. environmental economics, environmental policy, environmental sociology). Further, these students will be required to have at least a 3.20 GPA in graduate courses and strong scores on all components of the Graduate Record Examination (GRE). Applicants without the master’s degree but with exceptionally strong qualifications may be admitted directly into the ENDY program but must complete the master’s requirements. Admission into the program will be by committee evaluation. In addition to fulfilling the requirements for admission to the Graduate School, applicants must also supply the following materials:

1. Three recommendations from individuals familiar with the applicant’s academic or work history who can give candid assessments of the applicant’s ability to perform at the Ph.D. level.
2. A three-page Statement of Purpose outlining the applicant’s plans for the ENDY degree program that includes relevance of previous academic or work experience, current research interests or employment that bear on doctoral research, special skills, fieldwork experience, familiarity with interdisciplinary work (if any), and future career goals.
3. An example of the applicant’s writing such as a publication reprint, report, major term paper, undergraduate honors thesis, chapter from M.A./M.S. thesis, or similar document that demonstrates the applicant’s organizational skills, research ability, familiarity with a body of literature, ability to report clearly on an academic topic, and/or general writing skills.
4. TOEFL (Test of English as a Foreign Language) and TSE (Test of Spoken English) scores for international students whose native language is not English.
5. GRE scores and other relevant information that would assist the Admissions Committee in selecting applicants to the program.

Requirements for the Degree: During the first semester of study, all students will be assigned an advisory committee to determine the student’s particular program of study. Students are required to integrate both environmental and human components into their Ph.D. coursework and dissertation research. The advisory committee will determine the courses required and assist the student in balancing courses among disciplines.

Students become candidates for the doctorate only upon passing written and oral comprehensive exams. The examination must be passed at least nine months before graduation.

Each candidate must complete a doctoral dissertation on a topic determined through collaboration with a major professor and dissertation committee. This dissertation must be a scholarly and significant original contribution to knowledge within the field of Environmental Dynamics.

A final oral examination is required and must be taken at least two weeks before graduation. The examination will be concerned primarily with the candidate’s dissertation but may include other aspects of the graduate work.

Individually tailored programs of study will be designed with the expectation that the student will complete a minimum of 24 hours of course work beyond the master’s level, to include three required courses

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENDY 5113</td>
<td>Global Change (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ENDY 6013</td>
<td>Environmental Dynamics (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENDY/ANTH/ GEOS 5053</td>
<td>Quaternary Environments (Fa)</td>
<td></td>
</tr>
</tbody>
</table>
I. Basic Engineering Education Requirements

General Education Recommended Courses

<table>
<thead>
<tr>
<th>Humanities/Social Science (15 hours)</th>
<th>General Education Recommended Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acceptable to Undergraduate Program</td>
<td>Calculus Through Differential Equations (15 hours)</td>
</tr>
<tr>
<td>American History or American Government (3 hours)</td>
<td>MATH 2554 Calculus I (ACTS Equivalency = MATH 2405) (Sp, Su, Fa)</td>
</tr>
<tr>
<td></td>
<td>MATH 2564 Calculus II (ACTS Equivalency = MATH 2505) (Sp, Su, Fa)</td>
</tr>
<tr>
<td></td>
<td>MATH 2574 Calculus III (ACTS Equivalency = MATH 2603) (Sp, Su, Fa)</td>
</tr>
<tr>
<td>or MATH 2584 Elementary Differential Equations (Sp, Su, Fa)</td>
<td>MATH 3083 Linear Algebra (Sp, Su, Fa)</td>
</tr>
</tbody>
</table>

Statistics and Probability (3 hours)

| STAT 3013 Introduction to Probability (Sp, Su, Fa) |

General Chemistry (3 hours)

| CHEM 1103 University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture) (Su, Fa) |
| CHEM 1123 University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture) (Sp, Su, Fa) |
| & CHEM 1121LCHEM 1424 Lecture (Sp, Su, Fa) and University Chemistry I Laboratory (ACTS Equivalency = CHEM 1424 Lab) (Sp, Su, Fa) |

University Physics (calculus based) (4 hours)

| PHYS 2054 University Physics I (ACTS Equivalency = PHYS 2034) (Sp, Su, Fa) |

Microbiology (4 hours)

| BIOL 2013 General Microbiology (ACTS Equivalency = BIOL 2004 Lecture) (Sp, Su, Fa) |
| & BIOL 2011L General Microbiology Laboratory (ACTS Equivalency = BIOL 2004 Lab) (Sp, Su, Fa) |

Organic Chemistry (4 hours)

| CHEM 3504 Physical Chemistry I (Fa) |
| CHEM 3603 Organic Chemistry I (Su, Fa) |
| & CHEM 3601Land Organic Chemistry I Laboratory (Su, Fa) |

Earth Science (2 hours)

| GEOS 1113 General Geology (ACTS Equivalency = GEOL 1114 Lecture) (Sp, Su, Fa) |

General Engineering Education

20-21

Required Topics and Recommended Courses

Statics & Mechanics of Materials (5-6 hours)

| MEEG 2003 Statics (Sp, Su, Fa) |
| & MEEG 3013 and Mechanics of Materials (Sp, Su, Fa) (&) |
| CVEG 2015 Fundamentals of Mechanics for Civil Engineers (Sp, Fa) |

Hydraulics or Fluid Mechanics (3 hours)
The M.S.En.E. program requirements for graduate-level work include the minimum requirements of the Graduate School and requirements that are specific to the M.S.En.E. program:

1. No more than nine graduate credit hours presented for the M.S.En.E. degree may be 4000-level.

2. The minimum acceptable grade for each course presented for the degree is a "C" (2.0 grade points).

3. The cumulative grade-point average on all graduate courses presented for the degree must be at least 3.00.

4. A comprehensive examination that will include either a defense of the candidate's thesis or a presentation and discussion of the candidate's master's report.

5. Required courses listed below.

Thermodynamics (3 hours)
CHEG 3144  Heat and Mass Transfer (Sp, Fa)
MEEG 2403  Thermodynamics (Sp, Su, Fa)

Environmental Engineering (3 hours)
CVEG 3243  Environmental Engineering (Sp, Fa)
CVEG 4243  Environmental Engineering Design (Sp, Fa)

Total Hours 79-80

II. Environmental Engineering Breadth Requirements (18 hours)

Required Topics and Recommended Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENG 3723</td>
<td>Unit Operations in Biological Engineering</td>
<td></td>
</tr>
<tr>
<td>BENG 4933</td>
<td>Sustainable Watershed Engineering</td>
<td></td>
</tr>
<tr>
<td>CHEG 3333</td>
<td>Chemical Engineering Reactor Design</td>
<td></td>
</tr>
<tr>
<td>CHEG 4813</td>
<td>Chemical Process Safety</td>
<td></td>
</tr>
<tr>
<td>CVEG 3133</td>
<td>Soil Mechanics</td>
<td></td>
</tr>
<tr>
<td>CVEG 4203</td>
<td>Environmental Regulations and Permits</td>
<td></td>
</tr>
<tr>
<td>CVEG 4243</td>
<td>Environmental Engineering Design</td>
<td></td>
</tr>
<tr>
<td>CVEG 3223</td>
<td>Hydrology</td>
<td></td>
</tr>
<tr>
<td>CVEG 4513</td>
<td>Construction Management</td>
<td></td>
</tr>
<tr>
<td>CVEG 4273</td>
<td>Open Channel Flow</td>
<td></td>
</tr>
<tr>
<td>INEG 4223</td>
<td>Occupational Safety and Health Standards</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 18

III. Environmental Engineering (M.S.En.E) Graduate Degree Requirements

The M.S.En.E. program requirements for graduate-level work include the minimum requirements of the Graduate School and requirements that are specific to the M.S.En.E. program:

1. No more than nine graduate credit hours presented for the M.S.En.E. degree may be 4000-level.

2. The minimum acceptable grade for each course presented for the degree is a "C" (2.0 grade points).

3. The cumulative grade-point average on all graduate courses presented for the degree must be at least 3.00.

4. A comprehensive examination that will include either a defense of the candidate's thesis or a presentation and discussion of the candidate's master's report.

5. Required courses listed below.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEG 5203</td>
<td>Water Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CVEG 5213</td>
<td>Water Treatment &amp; Distribution System Design (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>CVEG 5214</td>
<td>Advanced Wastewater Process Design and Analysis (Fa)</td>
<td>4</td>
</tr>
<tr>
<td>CVEG 5233</td>
<td>Microbiology for Environmental Engineers (Irregular)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 79-80

Thesis Option: 30 hours of graduate-level course work, approved by the student's graduate adviser, including satisfactorily completing a total of 24 hours of graded graduate course work and six hours of research resulting in a written master's thesis.

Non-Thesis Option: 33 hours of graduate-level course work, which must be approved by the student's graduate adviser, including satisfactorily completing a total of 30 hours of graded graduate course work and three hours of independent study resulting in a written master's report.

European Studies (EUST)

Laurence Hare and Thomas Goldstein
Co-Chairs of Studies
416 Old Main
479-575-3001
Email: lhare@uark.edu or tgoldst@uark.edu

Finance (FINN)

Faculty

John Andrew Dominick, Professor, J.W. Bellamy Chair of Banking and Finance
Douglas P. Heath, Associate Professor
Hung-Chia Scott Hsu, Assistant Professor
Tomas Jandik, Professor, Edward W. and Anna Reed Professorship in Finance
Wayne Y. Lee, Professor, Alice L. Walton Chair in Finance, Garrison Chair in Finance
Pu Liu, Professor, Harold Dulan Chair in Capital Formation, Robert E. Kennedy Chair in Finance
Alexey Malakhov, Associate Professor
Craig Rennie, Associate Professor, Clete and Tammy Brewer Professorship in Business
Mark E. Risk, Instructor
Corbitt Stace Sirmans, Assistant Professor
Timothy J. Yeager, Professor, Arkansas Bankers Association Chair in Banking

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Normal 0 false false false EN-US X-NONE X-NONE /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Table Normal"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-style-parent:""; mso-padding-alt:0in 5.4pt 0in 5.4pt; mso-para-margin:0in; mso-para-margin-right:0in; mso-para-margin-bottom:10.0pt; mso-para-margin-left:0in; line-height:115%; mso-pagination:widow-orphan; font-size:11.0pt; font-family:Calibri, sans-serif; mso-ascii-font-family:Calibri; mso-ascii-theme-font:minor-latin; mso-hansi-font-family:Calibri; mso-hansi-theme-font:minor-latin;}
students must complete a research paper requirement, pass a written consultation with the departmental doctoral program adviser. In addition, two supporting areas, economics and research tools, are customized in research and are required. The remaining credit hours, distributed across hours of coursework. Five seminars (15 credit hours) in financial theory and individual apprenticeships with faculty. necessary to conduct independent research are acquired through courses and individual apprenticeships with faculty.

Curriculum:

Finance
FINN 6043 Finance Theory (Irregular) 3
FINN 6133 Seminar in Investment Theory (Sp) 3
FINN 6233 Seminar in Financial Management (Irregular) 3
FINN 6333 Empirical Research in Finance (Irregular) 3
FINN 6733 Seminar in Financial Markets and Institutions (Irregular) 3

Economics
ECON 5233 Mathematics for Economic Analysis (Su) 3
ECON 5533 Microeconomic Theory I (Fa) 3
ECON 6233 Microeconomic Theory II (Sp) 3
ECON 6613 Econometrics I (Fa) 3
ECON 6623 Econometrics II (Sp) 3
ECON 6633 Econometrics II (Sp) 3

Research Tools
Select two of the following: 6
STAT 5103 Introduction to Probability Theory (Fa) 3
STAT 5113 Statistical Inference (Sp) 3
STAT 5343 Stochastic Processes (Sp, Su, Fa) 3
STAT 5353 Methods of Multivariate Analysis (Sp) 3
STAT 5333 Analysis of Categorical Responses (Sp) 3
STAT 5383 Time Series Analysis (Sp, Su, Fa) 3
STAT 5413 Spatial Statistics (Fa) 3

Total Hours 60

Student may take up to one research tool course approved by the Finance Department doctoral student adviser if the research tool course is not listed above.

Program Structure: The Ph.D. program in Finance requires 42 credit hours of coursework. Five seminars (15 credit hours) in financial theory and research are required. The remaining credit hours, distributed across two supporting areas, economics and research tools, are customized in consultation with the departmental doctoral program adviser. In addition, students must complete a research paper requirement, pass a written and an oral comprehensive exam, as well as successfully defend and conclude an approved doctoral thesis.

Food Safety (AFLS)
Lona J. Robertson
Associate Dean, Dale Bumpers College of Agricultural, Food and Life Sciences
479-575-2252
Email: ljrobert@uark.edu

Kristin Seals
Program Coordinator
AFLS D112
479-575-3163
Email: kdseals@uark.edu

Degree Conferred:
M.S. in Food Safety (AFLS)
Graduate Certificate in Bioenergy and Sustainable Technology (non-degree)

M.S. (AFLS) degree program information
(Global Campus, School of Continuing Education and Academic Outreach)
Distance Education Graduate Degree Programs (http://www.globalcampus.uark.edu/Distance_Education/Graduate_Degree_Programs)

Graduate Certificate Information
(Bumpers College)
online.uark.edu/programs/bioenergy-sustainability-technology-graduate-certificate

Master of Science Program: The Master of Science in Food Safety is designed to prepare students for higher positions in the food industry. The program provides a subject matter core of courses in food microbiology, sanitation, food processing, epidemiology, food law, HACCP applications, human diseases, and other quality control areas facing the food industry.

The Master of Science in Food Safety program requires a total of 30 hours of graduate-level work. Each student will complete one three-hour problem in which a technical paper will be developed. This requirement may be satisfied by an approved thesis project in the Poultry or Food Science department. No more than a total of nine hours of thesis, special problems and internships are recognized for degree requirements with no more than a total of six hours of special problems and internships. Each special problem course should be limited to three hours of credit. An oral examination over all course work and the special problem project or thesis is required.

The student’s advisory committee will outline the total program of study and will also determine if any course deficiencies should be addressed. An applicant must meet all of the requirements for admission to the Graduate School. The program’s steering committee provides guidelines for student admission and establishes degree requirements. The student and the Program Coordinator, with approval of the Dean of the Graduate School, select a major adviser. The major adviser, in consultation with the student, will recommend additional faculty members to serve on the student’s advisory committee, including one member from the program steering committee.
Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Graduate Certificate in Bioenergy and Sustainable Technology:
The Graduate Certificate in Bioenergy and Sustainable Technology is a 15-credit hour program developed collaboratively with the University of Arkansas, Kansas State University, Oklahoma State University and South Dakota State University as part of the Great Plains AG*IDEA Consortium.

Admission to the certificate program will follow the University of Arkansas Graduate School requirements.

There are three core areas that correspond with three core courses: 1) feedstock production, 2) processing/conversion/utilization, and 3) sustainability (economics, life cycle analysis and environment). Students seeking the graduate certificate will take nine credit hours of core courses, and six credit hours of elective courses either in the Conversion Track, the Feedstock Track or the Sustainability Track.

Food Science (FDSC)

Faculty
Griffiths Odhiambo Atungulu, Assistant Professor
Jamie I. Baum, Assistant Professor
Franck Carbonero, Assistant Professor
Philip G. Crandall, Professor
Kristen Elizabeth Gibson, Assistant Professor
Navam S. Hettiarachchy, University Professor
Luke R. Howard, Professor
Sun-Ok Lee, Associate Professor
Jean-François Meullenet, Professor, Endowed Professorship in Food Sensory Science
Ruben O. Morawicki, Associate Professor
Andy Proctor, University Professor
Steven C. Ricke, Professor, Donald "Buddy" Wray Chair in Food Safety
Han-Seok Seo, Assistant Professor
Terrence J. Siebenmorgen, Distinguished Professor
Ya-Jane Wang, Professor

Jean-François Meullenet
Department Head
Food Science Building
2650 N. Young Avenue
Fayetteville, AR 72704
Voice: 479-575-4605
Fax: 479-575-6936
E-mail: jfmeull@uark.edu
food-science.uark.edu

Requirements for the Doctor of Philosophy Degree:

Applicants for acceptance into the interdepartmental doctoral program in food science must meet all of the requirements for admission to the Graduate School and the Department of Food Science. Students with a research thesis M.S. degree in Food Science or related sciences from an accredited institution should have an M.S. GPA of no less than 3.5. Students with a B.S. will be considered for the Ph.D. program if their UGPA is no less than 3.65 and they have had research experience with publishable research results. All applicants to the Ph.D. program (B.S. and M.S.) should have a GRE score of 153 verbal, 148 quantitative and 4.0 writing, suitable preparation for the food science graduate program, and be acceptable to the department. International students must also have a TOEFL score of no less than 237 (computer)/580 (paper)/92 (Internet) and no less than 4.5/6.0 on the TWE score of the TOEFL test.

Requirements for the Doctor of Philosophy Degree:

Upon acceptance to this program, the student will be assigned to a dissertation director from the department representing the student’s selected area of concentration. The dissertation director in consultation with the student and with the department head will select at least two suitable graduate faculty members from outside the student’s own department to complete a committee of five members. The doctoral advisory committee chaired by the dissertation director will be responsible for supervision of the student’s program development, and will serve as the examination committee for candidacy and final examinations.

The student’s course work and dissertation topic will be supervised by the doctoral advisory committee. For students holding an M.S. degree in a science discipline and aside from deficiencies identified upon acceptance to the program, a minimum of 24 semester hours of course credit and a minimum of 18 semester hours of Ph.D. dissertation research credit will be required. Requirements include a minimum of 18 hours of 5000- and 6000-level courses. For students holding a B.S. degree and aside from deficiencies identified upon acceptance to the program, a minimum of 42 semester hours of course credit and a minimum of 18 semester hours of Ph.D. dissertation research credit will be required. Requirements include a minimum of 30 hours of 5000- and 6000-level courses and up to six hours from the Food Science core courses can be counted toward the 42 hours. The student must maintain a grade-point average of 3.00 or higher. General requirements pertaining to the declaration of intent, admission
to candidacy and residency are in accordance with the requirements set forth by the Graduate School of the University of Arkansas.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

French
See World Languages, Literatures, and Cultures (p. 178).

General Agriculture (GNAG)
See Agricultural, Food, and Life Sciences (p. 57).

Geosciences (GEOS)

Faculty
Spencer L. Allen, Lecturer
Mohamed H. Aly, Assistant Professor
Steve K. Boss, Professor
Jackson David Cothren, Associate Professor
Matthew D. Covington, Assistant Professor
Fiona M. Davidson, Associate Professor
Ralph Davis, Professor
Gregory Dumond, Assistant Professor
Song Feng, Assistant Professor
Margaret J. Guccione, Professor
Phil Hays, Associate Professor
John C. Dixon, Professor
Gregory Dumond, Assistant Professor
Peng Li, Clinical Assistant Professor
Fred Limp Jr., University Professor
Christopher L. Liner, Professor
Steven Edward Milligan, Instructor
Thomas R. Paradise, University Professor
Jason A. Patton, Adjunct Assistant Professor
Adriana Potra, Assistant Professor
Ray A. Quick, Adjunct Assistant Professor
John B. Shaw, Assistant Professor
Xuan Shi, Assistant Professor
David William Stahle, Distinguished Professor
Celina A. Suarez, Assistant Professor
Jason A. Tullis, Associate Professor
Ralph Davis
Department Chair and Graduate Coordinator of Geosciences
216 Gearhart Hall
479-575-3355
E-mail: ralphd@uark.edu

Fiona Davidson
Graduate Coordinator of Geography
115 Gearhart Hall
479-575-3879
E-mail: fdavidso@uark.edu

Celina Suarez
Graduate Coordinator of Geology
226 Gearhart Hall
479-575-4866
E-mail: casuarez@uark.edu (casuarez@uark.edu?subject=GEOL Grad Info)

Degrees Conferred:
M.S. in Geography (GEOG)
M.S. in Geology (GEOL)
Ph.D. in Geosciences (GEOS)
Graduate Certificate in Geospatial Technologies (GIST)

Geography (GEOG) (M.S.)
Areas of Study: Human geography, physical geography, GIS, cartography, space and planetary sciences.

Geography (GEOG) (M.S.)
The Department of Geosciences offers a Master of Science (M.S.) degree in geography. This program draws on a variety of faculty expertise in physical, environmental, human, and regional studies in geography as well as in cartography, remote sensing, photogrammetry, and computational aspects of geographic information science (GIS) or geoinformatics.

Prerequisites to Degree Program: Applicants must be admitted to the Graduate School and meet the following requirements: 1) satisfactory undergraduate preparation in geography, 2) three letters from persons competent to judge the applicant’s potential for graduate studies, 3) satisfactory GRE scores, and 4) a completed departmental application. In addition to these requirements, students applying to the MS program should have adequate mathematical preparation at the undergraduate level, including statistics, algebra, and/or calculus. Students who do not meet these requirements may be admitted conditionally. Students with course deficiencies may enroll concurrently in graduate courses. Students speaking English as a foreign language are encouraged to take the TOEFL with results reported to the department.

Degree Requirements: Requires a total of 30 semester hours. A minimum of 24 semester hours of course work (including a 7-hour core and 6 hours of quantitative or computational electives), six semester hours of thesis, and a comprehensive examination (defense of thesis) conducted by the candidate’s thesis committee are required for all students who obtain an M.S. in Geography.

Core
GEOS 5093 History and Philosophy of Geography (Even years, Sp) 3
GEOS 5333 Research Methods and Materials in Geography (Odd years, Fa) 3
GEOS 5011 Colloquium (Sp) 1

Quantitative and Computational Electives
GEOS 4513 Introduction to GIS Programming (Fa) 3
GEOS 4863 Quantitative Techniques in Geosciences (Sp) 3
GEOS 5033 Advanced Vector Geographic Information Systems (Irregular) 3
GEOS 510V Special Problems in Physical Geosciences (Sp, Su, Fa) 3
ECON 4743 Introduction to Econometrics (Sp) 3
CSCE 4523 Database Management Systems (Sp) 3
CSCE 4613 Artificial Intelligence (Irregular) 3
MATH 4153 Mathematical Modeling (Irregular) 3
MATH 4353 Numerical Linear Algebra (Sp) 3
MATH 4363 Numerical Analysis (Fa) 3

See http://fulbright.uark.edu/departments/geosciences for more information.
Geology (GEOL) (M.S.)

Areas of concentration: General geology, space and planetary sciences

Instruction in geology at the graduate level focuses on preparation of students to become practicing professional geologists in industry or to pursue, without deficiencies, doctorates at established programs. Students intending to enter the industrial workforce are encouraged to maintain a broad perspective with an emphasis in an area of geology that has a demonstrated record of past employment, such as petroleum geology or environmental geology. The greatest strength of the program in geology at the University of Arkansas is instruction in practical geologic interpretation, with emphasis on field relationships. This instructional strength includes all levels of teaching and supports an active research program that serves to strengthen the research and communication skills of the students through writing assignments, oral presentations, and participation in professional societies.

Prerequisites to Degree Program: Students admitted to graduate study should have completed an undergraduate geology program similar to that required for the B.S. degree at the University of Arkansas. Applicants lacking an appropriate background may satisfy deficiencies while enrolled in Graduate School. Prospective students should submit application forms, three letters of recommendation, and a statement of their graduate and professional goals before February 15 for the fall semester and October 15 for the spring semester to assure their consideration. These dates are also deadlines for receipt of application for financial assistance.

Requirements for the Master of Science Degree: The program in Geology requires 30 graduate course credit hours, six of which will be derived from a thesis reporting the results of an original laboratory or field research problem. All course work, a thesis topic, and the final thesis must be approved by the student’s thesis committee. This committee is selected by the student and the student’s thesis director and will consist of a minimum of three members. At least two of the committee members will be chosen from geology faculty whose areas of expertise coincide with the research interests of the student.

Each student will complete a core curriculum consisting of a minimum of 12 hours selected from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS 4053</td>
<td>Geomorphology (Sp)</td>
</tr>
<tr>
<td>GEOS 4063</td>
<td>Principles of Geochemistry (Fa)</td>
</tr>
<tr>
<td>or GEOS 5853</td>
<td>Environmental Isotope Geochemistry (Sp)</td>
</tr>
<tr>
<td>GEOS 4433</td>
<td>Geophysics (Irregular)</td>
</tr>
<tr>
<td>GEOS 5123</td>
<td>Stratigraphic Principles and Practice (Irregular)</td>
</tr>
<tr>
<td>GEOS 5223</td>
<td>Sedimentary Petrology (Fa)</td>
</tr>
</tbody>
</table>

Select four of the following: 12

1. 12 hours selected from the following courses:

2. Each student must complete a minimum of 18 credit hours in geology courses, including one credit hour of GEOS 5011 Colloquium (Sp), in addition to the six credit hours for the thesis.

3. Students who have completed some or all of these core courses as part of their undergraduate program must substitute additional elective courses, as approved by their thesis committee, to fulfill the minimum required 24 credit hours of course work.

4. To complete the requirements for the degree, the candidate must complete all course work with a grade-point average of 3.00, submit an acceptable thesis, and pass a comprehensive examination based primarily on a defense of the student’s thesis.

5. Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Geosciences (GEOS) (Ph.D.)

Primary Areas of Faculty Research:

1. Basin evolution and analysis (including multiple aspects of petroleum geology that incorporate sedimentation, structural geology, stratigraphy and geophysics),
2. Crustal and mantle composition and tectonic evolution,
3. Neotectonics and dynamic geomorphology,
4. Geoinformatics (including GIS, remote sensing, GPS geodesy, and geospatial analysis),
5. Groundwater dynamics, karst hydrology and limnology, and
6. Paleoecological and paleo-environmental research.

The Department of Geosciences focuses on research and education dealing with the nature, genesis, and history of the Earth and the global environment, the evolution of landscapes and biota at the Earth’s surface, and the advance of geospatial technologies. The Doctor of Philosophy degree is designed for students who are committed to scholarship in the geosciences and who wish to prepare for professional employment within the academic community, industry, or government. Geosciences research requires rigorous observation, quantitative analysis, and modeling in order to yield scientific results that are acceptable for publication in first-rate, internationally-ranked journals. Given the interdisciplinary nature of Geosciences, the Department of Geosciences encourages research including elements of space and planetary sciences, biological sciences, environmental sciences, physics and chemistry to address relevant problems at the boundaries of geoscience and other disciplines.

Applicants for the doctoral program must have completed the baccalaureate degree with a major in geosciences or an allied discipline. Students with academic preparation at the undergraduate or masters level in other disciplines of physical science, engineering, and mathematics are also encouraged to apply. All applicants must submit their scores on the Graduate Record Examination directly to the University of Arkansas Graduate School, provide three letters of recommendation from individuals qualified to assess the applicant’s academic potential, a personal curriculum vita, and a statement of academic and research interests.

Qualified students with a bachelor’s degree or a master’s degree may be accepted into the Ph.D. program. Academic requirements for admission to the program are listed in the table below. In addition, prospective applicants are encouraged to contact Department of Geosciences faculty with similar research interests to initiate dialogue regarding availability for mentoring, potential research topics, and research funding opportunities.
Requirements for Admission to the Doctor of Philosophy Degree in Geosciences:

- Minimum Undergraduate GPA: 2.85 on a 4.0 system
- Minimum Graduate GPA: 3.20 on a 4.0 system
- Minimum GRE Verbal: 153
- Minimum GRE Quantitative: 144
- Minimum GRE combined Verbal and Quantitative: 297
- Minimum GRE writing: 4

International students only: a minimum score of 6.5 on the International English Language Testing System (IELTS), 79 on the Internet-based Test of English as a Foreign Language (TOEFL), or a 58 on the Pearson Test of English - Academic (PTE-A), taken within the preceding two years

- M.S./M.A. requirements: 24 units graduate courses, 6 hours thesis
- Recommendations: Three (3) letters of recommendation from individuals qualified to assess the applicant's academic potential
- Ph.D. course requirements: 24 units graduate courses; 18 hours dissertation; completed original dissertation research.
- No course with a grade of less than a C (graduate or undergraduate) will be accepted as fulfilling prerequisites.
- Acceptance by an adviser
- Other: Current Curriculum Vita; Statement of academic and research interests
- Submit application by Jan. 15 deadline for fall semester to assure consideration

Course Requirements for the Doctor of Philosophy Degree:

- 24 course hours beyond the U of A M.S./M.A. degree or equivalent.
- GEOS 5023 Technical and Proposal Writing for the Geosciences
- It is strongly recommended that two courses be taken outside of the department that are supplementary to the student's interests and dissertation topic. These may be 3000-level undergraduate courses, if approved by the Advisory Committee and the Graduate School.
- No more than 3 hours of Special Problems or Independent Research
- Dissertation – 18 hours to be taken after admission to candidacy.

Any waivers to these requirements must be appealed to the Advisory or Dissertation committee and the departmental Graduate Adviser.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

The student must maintain a 3.0 GPA in course work taken for the Ph.D. degree.

The Doctor of Philosophy degree is primarily a research degree, but communication of that research is critical for professional development and required for most professional pursuits. To promote development of the communication skills, each student is required to teach labs and/or a course for at least one semester and to present scientific results at one or more national or international professional meetings.

Graduate Certificate in Geospatial Technologies (GIST)

The Department of Geosciences offers an online Geospatial Technologies Graduate Certificate through University of Arkansas Global Campus (http://globalcampus.uark.edu). This certificate is designed for working professionals who wish to develop technical skills in the emerging field of geospatial technologies. The certificate provides the technical instruction needed to be employed in the geosciences and collateral disciplines as one of the American Society of Photogrammetry and Remote Sensing’s “Mapping Scientist” and as a “Certified Geographic Information Systems Professional” (GISP).

Requirements for a Geospatial Technologies Graduate Certificate

Requirements for admission: Graduate status; there are no disciplinary requirements.

A total of 12-18 hours are required for the certificate:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS 5043</td>
<td>Geospatial Technologies Mathematical Toolkit</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(Sp, Fa)</td>
<td></td>
</tr>
<tr>
<td>GEOS 5073</td>
<td>Geospatial Technologies Computational Toolkit</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(Sp, Fa)</td>
<td></td>
</tr>
<tr>
<td>GEOS 5083</td>
<td>Geospatial Technologies Statistical Toolkit</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(Sp, Fa)</td>
<td></td>
</tr>
<tr>
<td>GEOS 5543</td>
<td>Geospatial Applications and Information Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(Sp, Fa)</td>
<td></td>
</tr>
<tr>
<td>GEOS 5553</td>
<td>Spatial Analysis Using ArcGIS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(Sp, Fa)</td>
<td></td>
</tr>
<tr>
<td>GEOS 5593</td>
<td>Introduction to Geodatabases</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(Sp, Fa)</td>
<td></td>
</tr>
</tbody>
</table>

It is possible to waive 3 to 6 hours of required coursework for GEOS 5043 and GEOS 5073 through successful completion of proficiency exams.

German

See World Languages, Literatures, and Cultures (p. 178).

Health, Human Performance and Recreation (HHPR)

Faculty

Heather D. Blunt, Assistant Professor
Jeff Bonacci, Clinical Associate Professor
Paul C. Calleja, Clinical Associate Professor
Rosalie DiBrezzo, University Professor
Stephen W. Diltmore, Associate Professor
Terry Eddy, Assistant Professor
R. J. Elbin, Assistant Professor
Janet B. Forbes, Instructor
Kaitlin Gallagher, Assistant Professor
Matthew Stueck Ganio, Associate Professor
Dean Richard Gorman, Professor
Michelle Gray, Associate Professor
Nicholas P. Greene, Assistant Professor
Bart Hammig, Associate Professor
Leah Jean Henry, Associate Professor
Sharon Lee Hunt, Professor
Ches Jones, Professor
Kristen N. Jozkowski, Associate Professor
Stavros Anastassios Kavouras, Associate Professor
Jack C. Kern, Clinical Professor
Steve Langsner, Associate Professor
Cathy D. Lirgg, Associate Professor
Nicholas P. McDermott, Associate Professor
Merry Lynn Moiseichik, Professor
Angela Smith-Nix, Clinical Assistant Professor
Sarah Stokowski, Assistant Professor
Amanda Lynn Sullivan, Clinical Assistant Professor
Degrees Conferred:
M.A.T. in Athletic Training (p. 62) (ATTR)
M.Ed. in Physical Education (p. 152) (PHED)
M.Ed., Ed.D. in Recreation and Sport Management (p. 162) (RESM)
M.S. in Kinesiology (p. 131) (KINS)
M.S., Ph.D. in Community Health Promotion (p. 82) (CHLP)
Ph.D. in Health, Sport and Exercise Science (p. 118) (HSES)

Primary Areas of Faculty Research: Please see individual faculty bios for specific research interests.

Health, Sport and Exercise Science
The Ph.D. program in the Department of Health, Human Performance and Recreation is a research-focused degree that is designed to prepare scholars in advanced study to contribute to the field through teaching, research, and service.

The department is comprised of four divisions and offers the Ph.D. degree with a concentration in each corresponding program area:
1. Exercise Science
2. Kinesiology-Pedagogy
3. Health Behavior & Health Promotion
4. Recreation and Sport Management

Admission to Ph.D. Degree Program:
The applicant must have 1) completed a master’s degree or its equivalent in a field related to their specialization area to which they are applying, 2) meet general admission requirements of the Graduate School, 3) a GPA of at least 3.00 on all graduate course work; and 4) an acceptable score on the Graduate Record Examinations (GRE). Admission will be based on the willingness and ability of a graduate faculty member to accept a new student. Additional prerequisites may be prescribed after review of application materials.

Applications must include the following:
1) Curriculum vitae.
2) Statement of purpose and research interest, including specification of the area of concentration to which you are applying.
3) Academic transcripts
4) Three letters of recommendation

Requirements for the Doctor of Philosophy Degree:
A minimum of 60 graduate semester hours, including 18 hours of dissertation, is required after admission into the Ph.D. program. In the event required courses for the Ph.D. program have been taken during a student’s master’s degree program, they will need to substitute another graduate course in lieu of the required course. A doctoral advisory committee will be established by the student in consultation with the Coordinator of Graduate Study during the first semester of enrollment subsequent to acceptance into the degree program. The student, in conjunction with the advisory committee, will define the program of study. The degree program requires successful completion of qualifying examinations, dissertation, and an oral defense of the dissertation. These last requirements are described elsewhere in this catalog.

HHPR 5353 Research in Health, Human Performance and Recreation (Sp, Su, Fa) 3
ESRM 5393 Statistics in Education and Health Professions (Sp, Su, Fa) 3
HHPR 700V Doctoral Dissertation (Sp, Su, Fa) 18

Research and Statistical Requirements
A minimum of 18 hours approved by doctoral advisory committee. 18

Total Hours 42

Requirements for each area of concentration are presented below.

Requirements for Exercise Science Concentration:
Exercise Science Core
EXSC 5323 Biomechanics I (Fa) 3
EXSC 5513 Physiology Exercise I (Fa) 3
EXSC 5593 Practicum in Laboratory Instrumentation (Su, Fa) 3

Cognate
The student, in consultation with the doctoral advisory committee, will identify hours of further course work comprising a field of study in an area of interest. Course work may be selected from several related disciplines or a single discipline.

Electives
Students must complete 36 hours of graduate electives as approved by the doctoral advisory committee. 36

Total Hours 54

Requirements for the Health Behavior and Health Promotion Concentration
The Health Behavior and Health Promotion concentration trains health behavior researchers for academic positions in university settings, for positions in federal health agencies such as the Centers for Disease Control and Prevention and the National Institutes of Health, and for post-doctoral research fellowships.

Health Behavior Core
PBHL 5533 Theories of Social and Behavioral Determinants of Health (Fa) 3
PBHL 5563 Public Health: Practices and Planning (Sp) 3
PBHL 5573 Principles of Health Education (Fa) 3
PBHL 5613 Epidemiology (Fa) 3
HHPR 699V Seminar (Irregular) 3

Cognate
The student in consultation with the doctoral advisory committee, will identify hours of further course work comprising a field of study in an area of interest. Course work may be selected from several related disciplines or a single discipline.

**Electives**

Students must complete 33 hours of graduate electives as approved by the doctoral advisory committee.

<table>
<thead>
<tr>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>54</td>
</tr>
</tbody>
</table>

**Requirements for the Pedagogy Concentration:**

<table>
<thead>
<tr>
<th>Pedagogy Core</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHED 5233</td>
<td>3</td>
</tr>
<tr>
<td>PHED 6363</td>
<td>3</td>
</tr>
<tr>
<td>KINS 674V</td>
<td>3</td>
</tr>
<tr>
<td>HHPR 689V</td>
<td>3</td>
</tr>
</tbody>
</table>

**Cognate**

A minimum of 6 hours approved by doctoral advisory committee.

**Electives**

The student, in consultation with the doctoral advisory committee, will identify further course work comprising a field of study in kinesiology and consistent with the goals and objectives of the student and institution. Course work may be selected from several related disciplines or a single discipline.

<table>
<thead>
<tr>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>54</td>
</tr>
</tbody>
</table>

**Requirements for the Recreation and Sport Management Concentration**

The Recreation and Sport Management concentration prepares students to become teachers, researchers, and leaders in the area of recreation, sport management and leisure in university settings.

<table>
<thead>
<tr>
<th>Recreation and Sport Management Core</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESM 612V</td>
<td>3</td>
</tr>
<tr>
<td>RESM 6133</td>
<td>3</td>
</tr>
<tr>
<td>HHPR 6233</td>
<td>3</td>
</tr>
</tbody>
</table>

**Cognate**

The student, in consultation with the doctoral advisory committee, will identify further course work comprising a field of study in an area of interest. Course work may be selected from several related disciplines or a single discipline.

**Electives**

Students must complete 36 hours of graduate electives as approved by the doctoral advisory committee.

<table>
<thead>
<tr>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>54</td>
</tr>
</tbody>
</table>

**Higher Education (HIED)**

**Faculty**

G. David Gearhart, Professor  
James O. Hammons, Professor  
Michael Stephen Hevel, Assistant Professor  
Ketevan Mamiseishvili, Associate Professor  
Suzanne McCray, Associate Professor  
Michael T. Miller, Professor

---

**John Murry Jr., Associate Professor**  
Leslie Jo Shelton, Clinical Assistant Professor

John Murry  
HIED Ed.D. Program Coordinator  
116 Graduate Education Building  
479-575-3082  
E-mail: jmurry@uark.edu

Leslie Jo Shelton  
HIED M.Ed. Program Coordinator  
108 Graduate Education Building  
479-575-4873  
E-mail: ljshelto@uark.edu

**Degrees offered:**  
M.Ed., Ed.D. in Higher Education (HIED)

The Higher Education program prepares students for professional competence, leadership, and service in two areas: administration (including student affairs work) and college teaching. Within these areas of specialization, practicing professionals as well as persons entering the higher education field, may pursue programs emphasizing community colleges, four-year colleges and universities, or state, regional, or national agencies.

**Areas of Study:**  

**Admission Prerequisites for Master of Education Program:**  
Formal admission to the Master’s of Education (M.Ed.) degree in Higher Education requires prior admission to the University of Arkansas Graduate School, which requires a separate application process. Admission to the University of Arkansas Graduate School requires a minimum 3.0 cumulative GPA or a 3.0 GPA on the last 60 hours of course work attempted and GRE scores from the past five years. In addition, admission to the program requires (1) a completed Higher Education Master’s program application form; (2) a statement of interest; (3) a current resume; (4) three supporting letters of recommendation; and (5) a writing sample demonstrating the applicant’s best writing.

**Requirements for the Master of Education Degree:**  
(Minimum 33 hours) The master’s degree program in higher education provides academic preparation for persons who plan to seek entry level positions at the director or assistant director level in both two-year and four-year institutions for which a master’s degree is appropriate preparation, including community colleges and technical colleges, liberal arts colleges, and four-year colleges and universities. Depending upon prior experience, graduates may expect to find employment in a wide variety of positions in residence life, financial aid, career planning and placement, student activities, student union management, alumni affairs, development, public information, continuing education, financial management, human resources, and institutional research, or as adviser to fraternities and sororities, or minority students.

In combination with course work outside of Higher Education, students may prepare for positions in development and in other beginning level positions in post-secondary institutions and educational agencies.

**M.Ed. Program Requirements**

1. Completion of a minimum total of 33 graduate semester-hour credits (or 27 plus thesis), including at least 24 hours in higher education.
2. Completion of the following required seven courses in Higher Education:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIED 5003</td>
<td>Overview-American Higher Education (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 5033</td>
<td>Student Affairs in Higher Education (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 5043</td>
<td>Student Development in Higher Education (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 5083</td>
<td>History and Philosophy of Higher Education (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 5073</td>
<td>Management of Higher Education Institutions (Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 5643</td>
<td>Reflective Practice in Higher Education and Student Affairs (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 6653</td>
<td>Legal Aspects of Higher Education (Sp, Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

3. One 3-hour adviser-approved Higher Education elective course.

4. Additional 6 hours of adviser-approved electives to be selected from Higher Education or other relevant areas [may include 600V(6) Master’s Thesis].

5. Electives in Higher Education may be selected from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIED 504V</td>
<td>Practicum in Higher Education (Sp, Su, Fa)</td>
<td>1-6</td>
</tr>
<tr>
<td>HIED 5053</td>
<td>The Community College (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 5063</td>
<td>Diversity in Higher Education (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 5103</td>
<td>Higher Education in International Contexts (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 574V</td>
<td>Internship (Sp, Su, Fa)</td>
<td>1-3</td>
</tr>
<tr>
<td>HIED 605V</td>
<td>Independent Study (Sp, Su, Fa)</td>
<td>1-6</td>
</tr>
<tr>
<td>HIED 6183</td>
<td>Organization Development and Change in Higher Education (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 6533</td>
<td>Assessment of Institutional Effectiveness in Higher Education (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 6663</td>
<td>Finance and Fiscal Management (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 6683</td>
<td>Governance and Policy Making in Higher Education (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 699V</td>
<td>Seminar (Sp, Su, Fa)</td>
<td>1-6</td>
</tr>
</tbody>
</table>

Other Higher Education courses, designed primarily for doctoral students, with instructor’s approval.

Other related areas might include adult education, counseling, business, psychology, sociology, communications or other fields of interest to the student.

6. A minimum of 3 hours in research methods or statistics selected from the following: HIED 5093 Research in Higher Education and Student Affairs (Sp, Su, Fa), ESRM 5013 Research Methods in Education (Sp, Su, Fa), ESRM 5393 Statistics in Education and Health Professions (Sp, Su, Fa) or other equivalent course.

7. A cumulative grade point average of at least 3.00 on all course work for the degree. No grades below “C” will be accepted for graduate degree credit.

8. Satisfactory performance on a written comprehensive examination.

9. Students enrolled in the Higher Education Program should hold a graduate assistantship or be employed full-time in higher education or a related field (exceptions must be approved by faculty).

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

**Admission Prerequisites for the Doctor of Education Degree:** Formal admission to the Doctor of Education (Ed.D.) degree in Higher Education requires:

1. Prior admission to the University of Arkansas Graduate School, which requires a separate application process;
2. A master’s degree or approved equivalent (minimally, 30 hours of post-baccalaureate graduate work completed);
3. A cumulative grade-point average on all graduate work attempted of at least 3.25;
4. A satisfactory Millers Analogy Test (MAT) score or Graduate Record Examination (GRE) scores (test scores usually at the 50th percentile);
5. Relevant professional experience in the field of higher education or a closely related field;
6. A completed Higher Education Program Application for Admission Form;
7. A current resumé or vitae;
8. A statement of interest;
9. At least three references (using our forms);
10. A writing sample demonstrating the applicant’s best writing;
11. A personal interview with a Higher Education faculty committee, which by majority vote decides admission. Completed application deadlines are October 15 for Spring admission and March 15 for Fall admission.

**Ed.D. Program Requirements:** Students must complete a minimum of 96 total graduate semester credit hours. A minimum of 42 graduate semester credit hours must be completed beyond the master's degree, including a minimum of 24 hours in higher education core courses and at least 18 dissertation hours.

1. Completion of 15 semester credit hours of the following Higher Education Foundation core courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIED 5083</td>
<td>History and Philosophy of Higher Education (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 6423</td>
<td>Trends, Issues and Problems in Higher Education (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 6643</td>
<td>College Students in the United States (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 6653</td>
<td>Legal Aspects of Higher Education (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 6683</td>
<td>Governance and Policy Making in Higher Education (Irregular)</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Completion of 9 semester credit hours of approved Higher Education practitioner skill-based courses selected from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIED 6013</td>
<td>The Professoriate: Problems and Issues (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 6083</td>
<td>Management Skills for Effective Leadership (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 6093</td>
<td>Leading Change (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 6323</td>
<td>Design and Evaluation of College Teaching (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 6533</td>
<td>Assessment of Institutional Effectiveness in Higher Education (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 6663</td>
<td>Finance and Fiscal Management (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 6483</td>
<td>Strategic Enrollment Management (Irregular)</td>
<td>3</td>
</tr>
</tbody>
</table>

3. Completion of a minimum of 6 additional semester credit hours of approved electives in Higher Education:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIED 5033</td>
<td>Student Affairs in Higher Education (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>HIED 5043</td>
<td>Student Development in Higher Education (Sp)</td>
<td>3</td>
</tr>
</tbody>
</table>
HIED 504V  Practicum in Higher Education (Sp, Su, Fa)  1-6
HIED 5053  The Community College (Irregular)  3
HIED 5063  Diversity in Higher Education (Irregular)  3
HIED 5073  Management of Higher Education Institutions (Su, Fa)  3
HIED 5103  Higher Education in International Contexts (Irregular)  3
HIED 605V  Independent Study (Sp, Su, Fa) (limited to no more than 3 hours)  1-3
HIED 6013  The Professoriate: Problems and Issues (Irregular)  3
HIED 6083  Management Skills for Effective Leadership (Irregular)  3
HIED 6093  Leading Change (Irregular)  3
HIED 6183  Organization Development and Change in Higher Education (Irregular)  3
HIED 6323  Design and Evaluation of College Teaching (Irregular)  3
HIED 6343  Strategies for Effective College Teaching (Irregular)  3
HIED 6663  Finance and Fiscal Management (Irregular)  3
HIED 674V  Internship (Sp, Su, Fa)  1-6
HIED 699V  Seminar (Sp, Su, Fa)  1-6

4. Completion of 12 semester credit hours (or approved equivalents) in graduate level research and statistics:

HIED 5093  Research in Higher Education and Student Affairs (Sp, Su, Fa) (or an equivalent course or waived by the student's advisory committee)  3
ESRM 6403  Educational Statistics and Data Processing (Sp, Su, Fa) (or an equivalent course approved by the student's advisory committee)  3
HIED 6693  Research Techniques in Higher Education (Irregular)  3

Additional three (3) credit hours of advanced research methods (quantitative or qualitative) as approved by the student's advisory committee.

5. Completion of a minimum of 9 graduate semester credit hours of approved electives outside of Higher Education (Note: This may include graduate hours completed as part of another graduate degree program as approved by the student's advisory committee).

6. Completion of a minimum of 18 credit hours in dissertation:

HIED 700V  Doctoral Dissertation (Sp, Su, Fa)  1-18

7. A minimum grade point average of at least 3.25 on all course work presented as part of the degree program. No graduate degree credit will be granted for any course grades below "C."

8. Satisfactory completion of all requirements governing the written and oral examinations for the candidacy examination, the dissertation, and the final oral dissertation defense.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

History (HIST)
Faculty
Nikolay Atanasov Antov, Assistant Professor
Shawn Austin, Assistant Professor
Caree A. Banton, Assistant Professor
Alessandro Brogi, Professor
Robert P. Brubaker, Instructor
Todd Cleveland, Assistant Professor
Lynda L. Coon, Professor
Freddy C. Dominguez, Assistant Professor
Jim Gigantino II, Associate Professor
Rocio Gomez, Assistant Professor
Joel Samuel Gordon, Professor
Ronald J. Gordon, Instructor
Kelly Hammond, Assistant Professor
Laurence Hare Jr., Associate Professor
Brian Christopher Hurley, Instructor
Elizabeth Jane Markham, Professor
Aaron Moulton, Instructor
Charles E. Muntz, Assistant Professor
Michael C. Pierce, Associate Professor
Charles F. Robinson II, Professor
Sarah Rodriguez, Assistant Professor
Steven Rosales, Assistant Professor
Kathryn Ann Sloan, Associate Professor
Richard D. Sonn, Professor
Trish Starks, Associate Professor
Daniel E. Sutherland, Distinguished Professor
Lora Walsh, Visiting Assistant Professor
Elliott West, Alumni Distinguished Professor
Jeannie Whayne, University Professor
Calvin White Jr., Associate Professor
Patric George Williams, Professor
Rembrandt Wolpert, Professor
Randall B. Woods, Distinguished Professor, John A. Cooper Sr. Distinguished Professor of Diplomacy
Calvin White Jr., Department Chair
416 Old Main
479-575-3001
E-mail: calvinwh@uark.edu

Jim Gigantino
Associate Chair and Director of Graduate Studies
416 Old Main
479-575-3001
E-mail: jgiganti@uark.edu

http://history.uark.edu/index.php/grad_program

Degrees Conferred:
M.A., Ph.D. (HIST)

Prerequisites to Degree Program: Graduate work at the master's level presupposes an undergraduate major in that subject of approximately 30 semester hours. In addition, students must have achieved cumulative undergraduate grade point average of 3.0 or a grade point average of 3.25 in the last 60 hours of undergraduate work, a minimum Verbal score of 550 and a minimum Analytical Writing score of 4.5 on the Graduate Record Examination (GRE). Students who present a minimum of 30...
hours in history may be admitted without deficiency. Students who present between 18 and 30 hours of history may be admitted with or without deficiency, subject to the determination of the Graduate Studies Committee. Students who present less than 18 hours of history may not be admitted without deficiency. The Graduate Studies Committee will determine the nature of the deficiency requirements.

Graduate work at the doctoral level presupposes a Master of Arts in History, although the Graduate Studies Committee will consider outstanding applicants with Master’s degrees in related disciplines. Applicants ought to have at least a 3.25 GPA in their previous graduate work as well as a minimum 550 Verbal (or 156 on the new exam) and 4.5 Analytical Writing score on the GRE.

Applicants to the graduate programs in History must send all college transcripts and GRE scores to the Graduate School, to be forwarded to the department. Additionally, they must apply online at the History Department website noted above. Online materials to submit include a statement of intent describing their goals in graduate study, a resume or CV, three letters of recommendation, and a writing sample. If applicants are unable to apply online, they must contact the Graduate Director to make alternative arrangements. Master’s applications are due February 1 each year; Ph.D. applications are due December 1 each year.

**Requirements for the Master of Arts Degree:** Students seeking the Master of Arts degree must complete at least 30 hours of history at the 4000-level and above, including HIST 5023 Historical Methods, 6 hours of HIST 600V Master’s Thesis, only three hours of independent study, and a minimum of 9 seminar hours (either reading or research), and must maintain a minimum 3.0 GPA in all course work for the M.A. degree. HIST 5043 Histography can be used to fulfill partially the seminar requirement. Of the eight required courses at the 4000 and 5000 levels, at least three must be in areas outside of the main field of specialization. Master’s candidates must complete and satisfactorily defend a master’s thesis in history as judged by a panel of departmental faculty.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

**Requirements for the Doctor of Philosophy Degree:** During the first semester of study, all doctoral students will be assigned an advisory committee that will determine their particular programs. Students will select four fields of historical specialization. Students will also be required to meet the departmental language requirement by establishing reading competency in at least one foreign language. At the discretion of the student’s advisory committee, doctoral students may be required to prove reading competency in additional foreign languages if appropriate to their respective fields of research and study.

After completing the course of study prescribed by their advisory committees (with a minimum 3.0 GPA in all course work for the Ph.D. degree) and satisfying the language requirements, students may apply to take the candidacy examinations. These consist of written exams in each of the four specialized fields and an oral examination. When these examinations have been passed, students may apply for admission to candidacy. Within six months of passing the written and oral exams in all four fields, ABD students will write and defend a dissertation prospectus.

All students must demonstrate a capacity for independent research by the writing of an original dissertation on a topic within their major area of study. Upon admission to candidacy, students will be assigned a dissertation committee with a major professor as chair to direct the research and writing. Under direction of the major professor, candidates will develop programs of reading in the general areas and research techniques pertinent to researching and writing their dissertations.

The student’s final examination will be an oral defense of the dissertation.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

**Horticulture (HORT)**

**Faculty**

Janet B. Carson, Associate Professor  
John R. Clark, University Professor  
Michael R. Evans, Professor  
M. Elena Garcia, Professor  
Douglas Edward Karcher, Associate Professor  
Wayne A. Mackay, Professor  
Garry Vernon McDonald, Assistant Professor  
Mike Richardson, Professor  
James A. Robbins, Extension Professor  
Curt R. Rom, University Professor  
Ainong Shi, Assistant Professor

Wayne Mackay  
Department Head  
316 Plant Sciences Building  
479-575-2603  
E-mail: dhensley@uark.edu  
http://hort.uark.edu

**Degree Conferred:**

M.S. (HORT)  
Ph.D. (PTSC) (See Plant Science)

The Department of Horticulture offers a thesis and non-thesis option for the M.S. degree. The non-thesis program was developed for continued and advanced education in horticulture management. The program is directed toward students entering careers in horticulture upon completion of the degree, or students requiring additional education for advancement in their careers.

**Primary Areas of Faculty Research:** Genetics and plant breeding of fruit, vegetable, or ornamental crops; physiology, management and production of fruit, vegetable, greenhouse, or ornamental crops and landscape plantings; physiology and management of turfgrasses; and biotechnology.

**Prerequisites to Master of Science Degree Program (Thesis Option):** A candidate must have a B.S. degree from an accredited institution with a background in physical and biological sciences, horticulture, and supporting agricultural disciplines. The student will work with a major adviser, who will arrange a committee to evaluate the student’s background and plan a program of study with the student.

**Requirements for the Master of Science Degree (Thesis Option):** A minimum of 24 semester hours of graduate level course work and 6 hours of thesis are required, in addition to any deficiency courses that may be specified. The student’s advisory committee will also serve as the thesis and oral examination committee.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).
Prerequisites to Master of Science Degree Program (Non-thesis Option): Students seeking to pursue the non-thesis option must meet all admission criteria for the UA Graduate School. Applicants should have completed a B.S. or B.A. degree and have had course work in plant sciences, biology, botany, or horticulture, or three years of experience in a plant science related career. Additionally, students seeking admission into the M.S. non-thesis option must submit three letters of reference regarding academic and professional experiences and potential. No professional examinations are required for admission.

Requirements for the Master of Science Degree (Non-thesis Option): A minimum of 30 hours of graduate course work as approved by the student’s academic advising committee and within the requirements prescribed below. Specific Degree Requirements follow:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORT 503V</td>
<td>3</td>
</tr>
<tr>
<td>HORT 5001</td>
<td>1</td>
</tr>
<tr>
<td>Nine hours HORT Courses</td>
<td>9</td>
</tr>
<tr>
<td>BIOL 4303</td>
<td>3</td>
</tr>
<tr>
<td>AGST 4023</td>
<td>3</td>
</tr>
<tr>
<td>AGST 5014</td>
<td>3-4</td>
</tr>
</tbody>
</table>

1. Horticulture Block - A minimum of 20-21 hours including:
   - Plant and Agricultural Science Block – A minimum of 8-9 hours including: Course work in BIOL, CSES, AGST, PLPA, PTSC, ENTO, AGEC, AGME, AGED, LARC, or HORT.
2. Students must pass a written and oral examination to be given by their advising committee upon completion of their course work and submission of special project.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

The Ph.D. program in plant science is an interdepartmental program involving the Departments of Horticulture and Plant Pathology. The dissertation and most of the course work may be completed in horticulture. See graduate courses in Plant Science (p. 155).

Human Environmental Sciences (HESC)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cheryl Leigh Southward</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>La Vona Traywick</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Sabrina P. Trudo</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Twenty First Century Endowed</td>
<td>Chair in Human Environmental Sciences</td>
</tr>
<tr>
<td>Lisa T. Washburn</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Kelly Ann Way</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>M.E. Betsy Garrison</td>
<td>Director</td>
</tr>
<tr>
<td>118 Home Economics Building</td>
<td>479-575-4305</td>
</tr>
<tr>
<td><a href="http://hesc.uark.edu/2668.php">http://hesc.uark.edu/2668.php</a></td>
<td></td>
</tr>
</tbody>
</table>

Degree Conferred: M.S. (HESC)

Areas of Study: Apparel merchandising and product development; human nutrition and hospitality innovation; human development and family sciences; and general human environmental sciences.

Prerequisites to Degree Program: Applicants are expected to have sufficient undergraduate preparation to be admitted to the program. An admissions committee that is appointed by the Director at the time an application for admission is received determines eligibility for admission to any of the program areas. The admissions committee specifies any deficiencies in admission requirements that must be met by students who are admitted.

Requirements for the Master of Science Degree: The School of Human Environmental Sciences requires that at least 50 percent of the course requirements be earned from courses at the 5000 or 6000 level. This degree allows for a thesis and non-thesis option. Students who have research assistantships funded by the Arkansas Agricultural Experiment Station are required to participate in the thesis option. The thesis option is also recommended for students who plan to continue their education beyond the Master of Science degree.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Thesis Option: The thesis option requires a minimum of 30 semester hours. Of those 30 hours, six semester hours of thesis research are required and at least 12 hours of course work must originate within the area of concentration. Students must also take at least one course each in graduate statistics and research methods.

Non-thesis Option: The non-thesis option is available for students in any concentration who are pursuing their degree through distance education. Students may take any or all of their courses online. The non-thesis option requires a minimum of 33 semester hours of graduate level course work. A minimum of 15 of the semester hours must originate in the student’s area of concentration. Students must also take at least one course each in graduate statistics and research methods. Non-thesis track students are required to pass both written and oral comprehensive exams.

Students are strongly encouraged to consult with their advisers and the program website for the sequencing and availability of distance education courses offered by the School of Human Environmental Sciences.

Human Resource and Workforce Development Education (HRWD)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jules K. Beck</td>
<td>Clinical Assistant Professor</td>
</tr>
</tbody>
</table>

Human Resource and Workforce Development Education (HRWD)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jules K. Beck</td>
<td>Clinical Assistant Professor</td>
</tr>
</tbody>
</table>
### Human Resource and Workforce Development Education (HRWD)

---

**Bobbie T. Biggs**, Professor  
**Vicki Dieffenderfer**, Clinical Assistant Professor  
**Claretha Hughes**, Associate Professor  
**Carsten M. Schmidtke**, Assistant Professor

Vicki Dieffenderfer  
Coordinator, HRWD Graduate Studies  
101 Graduate Education Building  
479-575-5239  
Email: vmdieff@uark.edu


The Human Resource and Workforce Development Education program prepares scholar/practitioners to be educators, managers, and consultants in academic, public, and private settings. This program focuses on human resource and workforce development (HRD) theory and best practices. The core values are excellence, intellectual freedom, integrity, service, learning, diversity and stewardship. The M.Ed. program is a 33-hour non-thesis online program. The Ed.D. program offers a Doctor of Education degree in Human Resource and Workforce Development Education. This program is designed for students who seek leadership careers in education, business, or industry settings. The Ed.D. program is a 96-hour online program with one course that meets on campus.

### Admission Requirements for the Master of Education Degree Program:

All candidates who seek admission to the program must have (1) a minimum grade-point average (GPA) of 3.0 on the last 60 hours of attempted course work prior to the receipt of the baccalaureate degree from a regionally accredited institution. If the GPA is less than a 3.0 but at least 2.7 on the last 60 credit hours of attempted baccalaureate course work, the applicant may be considered for admission by special consideration, which includes satisfactory scores on the standardized test; (2) standardized test scores accepted by the Graduate School from the past five years; and (3) a conferred baccalaureate degree (excluding professional degrees) from a regionally accredited institution of higher education.

**Requirements for the Master of Education (M.Ed.) Degree:** The student’s program of study consists of the requirements listed below. Graduation requirements include (1) completing 33 semester hours (no thesis) with a minimum cumulative GPA of 3.0 (six hours may be transferred in but will not be calculated into the GPA); and (2) passing a Capstone Course in the final academic semester.

Required Core for Human Resource and Workforce Development Education – 21 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESRM 5013</td>
<td>Research Methods in Education (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>HRWD 5433</td>
<td>HRWD Capstone (Sp, Su, Fa) (on-campus students can take ESRM 5393 Statistics in Education and Health Professions)</td>
<td>3</td>
</tr>
</tbody>
</table>

**HRWD Core Courses**

**Career Development Pillar**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>HRWD 5113</td>
<td>Foundations of Human Resource &amp; Workforce Development (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>HRWD 5123</td>
<td>Career Transitions (Sp)</td>
<td></td>
</tr>
</tbody>
</table>

**Organization Development Pillar**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRWD 5213</td>
<td>Organizational Analysis (Sp, Su)</td>
<td></td>
</tr>
<tr>
<td>HRWD 5223</td>
<td>Strategic Human Resource and Workforce Development Education (Fa)</td>
<td></td>
</tr>
<tr>
<td>HRWD 5233</td>
<td>HRWD Employment, Legal, and Ethical Issues (Sp)</td>
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</tr>
</tbody>
</table>

**Training and Development Pillar**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRWD 5313</td>
<td>Facilitating Learning in the Workplace (Sp)</td>
<td></td>
</tr>
<tr>
<td>HRWD 5323</td>
<td>International HRWD (Fa)</td>
<td></td>
</tr>
<tr>
<td>HRWD 5333</td>
<td>HRWD Technological Resources (Fa)</td>
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</tr>
</tbody>
</table>

**Supplemental Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRWD 571V</td>
<td>Independent Study (Irregular)</td>
<td></td>
</tr>
<tr>
<td>HRWD 572V</td>
<td>Workshop (Irregular)</td>
<td></td>
</tr>
<tr>
<td>HRWD 573V</td>
<td>Experiential Learning (Irregular)</td>
<td></td>
</tr>
</tbody>
</table>

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

**Admission Requirements for the Doctor of Education (Ed.D.) Degree Program:** Applicants may obtain detailed instructions for application to the program at the Global Campus website (http://wded.uark.edu/4529.htm). You may also e-mail RHRCgrad@uark.edu with questions about the admissions process. The Human Resource and Workforce Development Education faculty considers the following factors important in determining admission to the program:

1. Demonstration of interest in a career in human resource and workforce development education through an interview with the department’s admissions committee.
2. Evidence of potential to contribute to the advancement of the field of workforce development education through research and professional leadership.
3. Previous work experience.
4. Commitment to a blended delivery program.
5. Graduate grade point average
6. Old Graduate Record Examination Score: 1000 combined scores of verbal and quantitative, and a 4.0 on analytical writing.
7. New Graduate Record Examination Score: Verbal – 153; Quantitative – 150; and a 4.0 on analytical writing. Scores are valid for five years.

In addition to meeting university requirements for admission to the Graduate School (http://www.uark.edu/recruit/admission), applicants must apply to the Human Resource and Workforce Development Education program by submitting an application for admission specific to the Ed.D program in Human Resource and Workforce Development Education, an autobiographical sketch, and a resume via e-mail to RHRCgrad@uark.edu.

**Requirements for the Ed.D. Degree in Human Resource and Workforce Development Education:** Candidates for the Doctor of Education Degree in Human Resource and Workforce Development Education must complete 96 semester hours of graduate study acceptable to their advisory committee. Master’s courses - 30 to 45 hours - may be used to fulfill some of the requirements below.

**Human Resource and Workforce Development Education (96 hours):**

Research and Statistics – 36 hours (including 18 dissertation hours)
Degrees Conferred:
M.S.I.E. (INEG)
M.S.O.M. (OPMG) (See Operations Management)
Ph.D. in Engineering (ENGR) (See Engineering (p. 103))

Areas of Research Activity: A critical component of all graduate-level work is scholarly activity through the completion of substantive research. These activities take place through the completion of doctoral dissertations, master’s theses, and master’s research projects. The department encourages the completion of master’s theses, particularly for those students holding assistantship appointments.

Research areas of concentration at both the master’s and doctoral levels include the following: artificial intelligence/expert systems, computer assisted processes, computer integrated manufacturing, financial engineering, engineering administration, facilities analysis/design, human factors/ergonomics, manufacturing automation/robotics, material handling, operations research, productivity measurement/analysis, production control/scheduling, quality control/reliability, and health care/transportation logistics.

Primary Areas of Faculty Research: Automation and robotics; economic decision analysis; electronics manufacturing; engineering and quality management; ergonomics, human factors and safety; health care; manufacturing and transportation logistics; material handling and warehousing systems; operations research; quality, reliability, maintainability; and scheduling.

Application to the Graduate Program: Follow the procedures outlined by the Graduate School. To receive full consideration for assistantships and other financial aid, applications must be received before February 1.

Prerequisites to the M.S.I.E. Degree Program:
1. There are no prerequisites for students with an undergraduate degree from an ABET-accredited industrial engineering program.
2. For students with a degree other than an ABET-accredited industrial engineering degree, prerequisite courses may be required.

Requirements for the Master of Science in Industrial Engineering Degree: In addition to the requirements of the Graduate School, the
following departmental requirements must be satisfied by candidates for the M.S.I.E. degree:

1. Candidates who present a thesis are required to complete a minimum of 24 graduate credit hours plus six hours of INEG 600V Master's Thesis.
2. Candidates who present a project are required to complete a minimum of 27 graduate credit hours plus three hours of INEG 513V Master's Research Project and Report.
3. Candidates who do not present either a thesis or project are required to complete 30 semester hours of course work.
4. Candidates must successfully complete a master's oral examination that is conducted by the candidate’s committee.
5. Courses Taken for Graduate Credit: A limited number of 4000-level courses may be taken for graduate credit.
6. Attendance at INEG graduate seminar is required of all graduate students in Industrial Engineering.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Information Systems (ISYS)

Faculty
Cash Acrey, Clinical Assistant Professor
Brittany Michelle Bright, Instructor
Susan E. Bristow, Clinical Assistant Professor
Timothy P. Cronan, Professor, M.D. Matthews Endowed Chair in Information Systems
David Douglas, University Professor, Walton College Professorship in Information Systems
Joseph Ehrhardt, Instructor
Ron Freeze, Clinical Associate Professor
Hartmut Hoehele, Assistant Professor
Phillip D. Kindy, Instructor
Xiao Ma, Assistant Professor
Andrew Mackey, Instructor
Suresh Malladi, Assistant Professor
Beverly McDaniel, Instructor
Jeff Mullins, Executive in Residence
Rajiv Sabherwal, Professor, Edwin and Karlee Bradberry Chair
Christina Serrano, Assistant Professor
Pankaj Setia, Associate Professor
Tracy Ann Sykes, Assistant Professor
Viswanath Venkatesh, Distinguished Professor, George and Boyce Billingsley Endowed Chair in Information Systems
Adriana Wilhelm, Instructor
Rajiv Sabherwal
Department Chair
204 Walton College of Business
479-575-4500

Pankaj Setia
Ph.D. Program Director
224 Walton College of Business
479-575-5653

Paul Cronan
Director, Masters Programs
215 Walton College of Business
479-575-6130

Degrees Conferred:
Ph.D. in Business Administration (BADM)
M.I.S. in Information Systems (INSY)
Graduate Certificate in Enterprise Systems (ISESGC)

Master of Information Systems

The Master of Information Systems is designed to provide professional preparation for positions in business and government. It provides sufficient flexibility to meet the needs of students with various backgrounds and foster lifelong learning and innovation. Students may concentrate in one of four areas: Information Technology Management, Enterprise Resource Planning (ERP) Management, Enterprise Systems (ES) Management, or Software Engineering.

Admission Requirements: The Master of Information Systems program is open to students who have earned a bachelor’s degree from an accredited institution and who can present evidence of their ability to do graduate work. “Evidence of ability” means superior grade-point average, an acceptable test score on the Graduate Management Admission Test (GMAT), and recommendations with respect to ability for successful pursuit of graduate-level work. International applicants and resident aliens must submit a minimum score of 550 on the paper-based or 80 on the Internet-based Test of English as a Foreign Language (TOEFL) or a minimum score of 6.5 on the IELTS taken within the preceding two years, or complete the Intensive English Language Program (Spring International Language Center) and receive an English proficiency recommendation for admission. International applicants must also submit a minimum score of 7 on the IELTS (speaking) sub-test or 26 on the Internet-based TOEFL (speaking) sub-test. Other admissions criteria can be considered on a case by case basis.

Requirements for the Master of Information Systems Degree: The Master of Information Systems is a 30 credit-hour program designed to provide professional information systems preparation for professional positions in business and public sector. Students whose previous studies have fulfilled requirements of the common body of knowledge in business and information systems will be required to complete a minimum of 30 hours of graduate work. The required common body of knowledge in Information Systems includes management information systems, systems analysis, database, and programming languages such as Visual Basic.

To ensure that students acquire the skills necessary for career success, the MIS program strongly encourages all students to obtain additional training directly related to the MIS program prior to graduation. The MIS program considers this training an integral part of the curriculum and recommends that students work for up to one year in a position (or positions) which allow for the practical application of the theoretical principles taught in MIS courses.

Students who hold non-immigrant status in the United States in the F-1 or J-1 categories are responsible for coordinating any necessary authorization for employment with the Office of International Students and Scholars (ISS). F-1 and J-1 students are strongly advised to discuss training options with the MIS Program Director and the ISS office early in their program, and to make themselves aware of limitations and restrictions related to F-1 or J-1 employment authorization benefits.

Pre-MIS
### Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 5423</td>
<td>Seminar in Systems Development (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5833</td>
<td>Data Management Systems (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5943</td>
<td>Management of Information Technology Seminar (Sp)</td>
<td>3</td>
</tr>
</tbody>
</table>

### Areas of Concentration

Select one of the following concentrations:

#### Information Technology Management

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 5503</td>
<td>Decision Support and Analytics (Sp)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5213</td>
<td>ERP Fundamentals (Su, Fa)</td>
<td></td>
</tr>
</tbody>
</table>

#### Enterprise Resource Planning (ERP) Management

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 5213</td>
<td>ERP Fundamentals (Su, Fa)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5223</td>
<td>ERP Configuration and Implementation (Fa)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5233</td>
<td>Seminar in ERP Development (Irregular)</td>
<td></td>
</tr>
</tbody>
</table>

Select six hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 5133</td>
<td>E Business Development (Sp)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5453</td>
<td>Introduction to Enterprise Servers (Fa)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5503</td>
<td>Decision Support and Analytics (Sp)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5843</td>
<td>Seminar in Business Intelligence and Knowledge Management (Sp, Fa)</td>
<td></td>
</tr>
</tbody>
</table>

#### Enterprise Systems (ES) Management

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 5503</td>
<td>Decision Support and Analytics (Sp)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5453</td>
<td>Introduction to Enterprise Servers (Fa)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5463</td>
<td>Enterprise Transaction Systems (Sp)</td>
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</tr>
</tbody>
</table>

Select six hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 5133</td>
<td>E Business Development (Sp)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5213</td>
<td>ERP Fundamentals (Su, Fa)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5843</td>
<td>Seminar in Business Intelligence and Knowledge Management (Sp, Fa)</td>
<td></td>
</tr>
</tbody>
</table>

#### Software Engineering Management

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 5503</td>
<td>Decision Support and Analytics (Sp)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5133</td>
<td>E Business Development (Sp)</td>
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</table>

Select nine hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CSCE 4323</td>
<td>Formal Languages and Computability (Sp)</td>
<td></td>
</tr>
<tr>
<td>CSCE 3513</td>
<td>Software Engineering (Sp, Fa)</td>
<td></td>
</tr>
<tr>
<td>CSCE 5323</td>
<td>Computer Security (Irregular)</td>
<td></td>
</tr>
<tr>
<td>ISYS or CSCE courses (approved by Director)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 5833</td>
<td>Data Management Systems (Sp, Fa)</td>
<td></td>
</tr>
</tbody>
</table>

#### Fall, Year 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 5423</td>
<td>Seminar in Systems Development (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

### Pre-MIS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 511V</td>
<td>IT Toolkit &amp; Skills Seminar (Irregular)</td>
<td></td>
</tr>
</tbody>
</table>

This course may not be used for the Master of Information Systems degree.)
collaborative research projects with faculty members, colloquia, and classroom teaching and support.

**Program Requirements**

**Research Tools**
- ISYS 5203 Experimental Design (Fa) 3
- ISYS 5623 Multivariate Analysis (Sp) 3
- ISYS 5723 Advanced Multivariate Analysis (Irregular) 3

### Information Systems Core Courses

Select seven of the following:
- ISYS 6133 Survey of IS Research (Fa) 21
- ISYS 6233 IS Research Projects (Irregular) 13
- ISYS 6333 Individual-level Research in IS (Irregular)
- ISYS 6433 Team-level Research in IS (Irregular)
- ISYS 6533 Macro- and Meso-level IS Research (Irregular)
- ISYS 6633 Systems Development (Irregular)
- ISYS 6733 Emerging Topics (Irregular)
- ISYS 6833 Theory Development (Irregular)
- ISYS 601V Graduate Colloquium (Sp, Fa)

**Supporting Fields**

In addition to the WCOB 6111 Teaching Seminar and MGMT 6213 Research Methods Seminar, courses to meet this requirement will be determined in consultation with the ISYS Ph.D. program committee (courses must be at the Ph.D. level, unless otherwise approved by the ISYS Ph.D. program committee). These courses are normally taken outside the ISYS Department and are in the student's area(s) of interest.

- WCOB 6111 Seminar in Business Administration Teaching I (Fa) 1
- MGMT 6213 Seminar in Research Methods (Irregular) 3

**Comprehensive Examination**

- Written exam, research tools and IS (at the end of all coursework)
- Oral exam

**Summer Research Requirements**

- 1st summer paper
- 2nd summer (to include a round of feedback and revision)

**Dissertation Requirements**

- Successful defense of Dissertation proposal
- Successful defense of Dissertation

**Other Ph.D. Courses Taken**

Students may take up to 9 hours of other Ph.D. courses, as necessary.

**Masters Level Courses**

Students typically without an information systems background will be required to take some Masters courses prior to taking their comprehensive examinations. These courses do not count toward the Ph.D. degree and are taken to remedy deficiencies. The ISYS Ph.D. program committee will determine whether a student needs to take one or more of these courses. The specific courses are:

- ISYS 5423 Seminar in Systems Development (Fa)
- ISYS 5503 Decision Support and Analytics (Sp)
- ISYS 5833 Data Management Systems (Sp, Fa)

---

**Admission Requirements**

In addition to the University's Graduate School and Walton College of Business' Graduate School of Business requirements, the ISYS Ph.D. program has the following requirement: Applicants are expected to have a background in information systems via prior courses in topics such as a programming language, systems analysis, design, and development, and database processing. Students without the background may also be admitted but will likely be required to take up to 3 masters level courses to remedy the deficiency.

**Residence Requirement**

There is a strong preference for students to be in residence — i.e., be full-time students with assistantship duties — during the entire program. Residence requirements are intended to ensure that every student has ample opportunity for the intellectual development that can result from a sustained period of intensive study and close association with scholars in the intellectual environment of the University. The requirement recognizes that growth as an independent scholar is not merely a matter of class attendance, but rather involves a broader development of the intellect that comes through intensive study, independent research, sustained association with faculty members and other colleagues who share common scholarly and professional interests, attendance at seminars and colloquia, intensive reading and familiarization with library resources, consultation with specialists in other disciplines and resource centers, and the opportunity for broadened exposure to current intellectual issues as they are revealed in various campus offerings.

After filing a Declaration of Intent to pursue the doctoral degree, a student must fulfill a residence requirement as outlined in the Graduate Catalog (p. 241) section on doctors of philosophy and education degrees.

**Graduate Certificate in Enterprise Systems (ISESGC)**

Timothy Paul Cronan  
Director  
WCOB 215  
479-575-6130  
cronan@uark.edu

The Graduate Certificate in Enterprise Systems (ES) is a part-time program offered (on campus, blended, and online) designed to provide graduate students knowledge of and experience with information systems used in modern enterprise environments. The demand for skilled professionals in information systems continues to outpace the supply of qualified applicants. Students may choose one of three concentrations for the Graduate Certificate in Enterprise Systems – Enterprise Information Systems, Business Analytics, or Enterprise Resource Planning. The Certificate program is intended to be completed part-time (ordinarily no more than six hours per semester), and is open to individuals with backgrounds in any discipline.

**Admission Requirements:** The Graduate Certificate in Enterprise Systems is a part-time program open to individuals with backgrounds in any discipline. Students must apply and be admitted to the Graduate School of Business; the GMAT/ GRE requirement is waived for the Graduate Certificate in Enterprise Systems degree program. (Students who have earned a GPA 3.5 or better upon completion of the certificate program and subsequently apply to the Master of Information Systems program will not be required to submit a test score). Information regarding
Graduate School of Business admission requirements can be found earlier in this chapter.

**Requirements for the Graduate Certificate in Enterprise Systems: (12 hours)**

To receive the Graduate Certificate in Enterprise Systems, students must select one of the concentrations below. Students are required to take 9 hours of coursework in the Walton College of Business and 3 hours of electives related to ES in either the Walton College or in another college at the University of Arkansas. Elective courses other than those listed below must be approved by the Director of the Certificate program. Some elective courses have prerequisites that are not met by courses in the Certificate program. Students are advised to check prerequisites prior to enrolling in a course.

**Required Course**
for all concentrations

**ISYS 5833** Data Management Systems (Sp, Fa) 3
or **ISYS 5213** ERP Fundamentals (Su, Fa)

**Enterprise Information Systems Concentration**

This concentration is open to individuals with backgrounds in fields other than Information Systems (IS) and is designed to provide non-IS graduate students with the fundamental knowledge and skills needed to successfully transition to a career in the IS field. Students who complete this concentration will have exposure to fundamental principles of IS, techniques for management and development of IS projects, and effective management and use of relational and dimensional data. Students who successfully complete this concentration may be eligible to receive a certificate endorsed by Microsoft

**Required Courses (9 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 511V</td>
<td>IT Toolkit &amp; Skills Seminar (Irregular) (this course may not be used for the Master of Information Systems Degree)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5423</td>
<td>Seminar in Systems Development (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5833</td>
<td>Data Management Systems (Sp)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Course**

Students should choose 3 hours of coursework from among the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 5213</td>
<td>ERP Fundamentals (Su, Fa) (recommended)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5133</td>
<td>E Business Development (Sp)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5453</td>
<td>Introduction to Enterprise Servers (Fa)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5933</td>
<td>Global Technology and Analytics Seminar (Su)</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 12

**Business Analytics Concentration**

This concentration is open to individuals with backgrounds in any discipline and is designed to give business and non-business graduate student's knowledge and experience in the management and use of enterprise data for operations and decision-making. The ability to effectively manage and analyze increasingly large and complex sets of data is highly valued among employers in all disciplines, as "business intelligence" becomes a primary source of competitive advantage in many organizations. Students who complete this concentration will have a foundation in the effective management and use of relational and dimensional data, the application of statistical decision-making theory, and the exploration and exploitation of data using advanced data mining tools and techniques. Students completing this concentration may be eligible to receive a certificate endorsed by the SAS Institute.

**Required Courses (9 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 5833</td>
<td>Data Management Systems (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>or ISYS 5213</td>
<td>ERP Fundamentals (Su, Fa)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5503</td>
<td>Decision Support and Analytics (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5843</td>
<td>Seminar in Business Intelligence and Knowledge Management (Sp, Fa)</td>
<td>3</td>
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</tbody>
</table>

**Elective Course**

Students should choose 3 hours of coursework from among the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 511V</td>
<td>IT Toolkit &amp; Skills Seminar (Irregular) (this course may not be used for the Masters of Information Systems Degree)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5213</td>
<td>ERP Fundamentals (Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5133</td>
<td>E Business Development (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5423</td>
<td>Seminar in Systems Development (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 12

**Enterprise Resource Planning Concentration**

This concentration is open to individuals with backgrounds in any discipline and is designed to provide business and non-business graduate students a foundation in the effective use, implementation, and customization of Enterprise Resource Planning (ERP) systems. ERP systems support integrated core business processes in nearly every large organization, and knowledge of and experience with these systems are highly valued among employers in all business disciplines. Students who complete this concentration will have exposure to fundamental principles of ERP and techniques for configuration, implementation, and development of ERP systems. Students completing this concentration may be eligible to receive a certificate endorsed by SAP America and the SAP University Alliances Program.

**Required Courses (9 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 5213</td>
<td>ERP Fundamentals (Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5223</td>
<td>ERP Configuration and Implementation (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5233</td>
<td>Seminar in ERP Development (Irregular)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Course (3 hours)**

Students should choose 3 hours of coursework from among the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 511V</td>
<td>IT Toolkit &amp; Skills Seminar (Irregular) (recommended)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5453</td>
<td>Introduction to Enterprise Servers (Fa)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5833</td>
<td>Data Management Systems (Sp, Fa)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5933</td>
<td>Global Technology and Analytics Seminar (Su)</td>
<td></td>
</tr>
<tr>
<td>ISYS 5943</td>
<td>Management of Information Technology Seminar (Sp)</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 12

**Interdisciplinary Studies**

Kim LaScola Needy
Dean of the Graduate School and International Education
213 Gearhart Hall
479-575-4401

Patricia R. Koski
 Degrees Conferred:  
M.S., Ph.D. in Cell and Molecular Biology (p. 73) (CEMB)  
Ph.D. in Environmental Dynamics (p. 109) (ENDY)  
M.S., Ph.D. in Microelectronics-Photonics (p. 137) (MEPH)  
Ph.D. in Public Policy (p. 162) (PUBP)  
M.S., Ph.D. in Space and Planetary Sciences (p. 170) (SPAC)  
M.S. in Statistics and Analytics (p. 173) (STAN)  

Graduate Certificates (non-degree) offered:  
Cross-Sector Alliances (p. 91) (CSAL)  
Sustainability (p. 176) (SUST)  

Housed in the Graduate School, the Division of Interdisciplinary Studies is the home department for the cross-college interdisciplinary graduate programs: Graduate Certificates in Cross-Sector Alliances, Preparing for the Professoriate, and Sustainability; M.S. and Ph.D. degrees in Cell & Molecular Biology; Ph.D. degree in Environmental Dynamics; M.S. and Ph.D. degrees in Microelectronics-Photonics; Ph.D. degree in Public Policy; M.S. and Ph.D. degrees in Space & Planetary Sciences; and M.S. in Statistics and Analytics. Program descriptions and course requirements may be found elsewhere in this catalog at the links above.

The common feature of these interdisciplinary programs is that their faculty members have voluntarily associated themselves with that academic community while being appointed faculty in our traditional departments. Each program operationally reports directly to the Associate Dean of the Graduate School, but works closely with the traditional departments that house actively participating program faculty members.

Journalism (JOUR)  

Faculty  
Lucy M. Brown, Clinical Assistant Professor  
Dale Carpenter, Professor  
Jee-Young Chung, Assistant Professor  
Larry D. Foley, Professor  
Ignatius Fosu, Associate Professor  
Kara Gould, Assistant Professor  
Gerald Bernard Jordan, Associate Professor  
Tiffany King, Instructor  
Kim L. Martin, Instructor  
Raymond McCaffrey, Assistant Professor  
Ray Minor, Instructor  
Bret J. Schulte, Associate Professor  
Katherine Shurlds, Clinical Assistant Professor  
Robyn M. Starling-Ledbetter, Instructor  
Patsy Watkins, Associate Professor  
Rob Wells, Assistant Professor  
Jan L. Wicks, Professor  

Larry Foley  
Department Chair  
116 Kimpel Hall  
479-575-3601  

Patsy G. Watkins  
Graduate Coordinator  
116 Kimpel Hall  
479-575-3601  
E-mail: pwatkins@uark.edu  

http://fulbright.uark.edu/departments/journalism/index.php  

Degree Conferred:  
M.A. (JOUR)  

Areas of Study: Advanced journalism studies are supplemented with six hours of graduate-level requirements in a second academic discipline. The purposes of the Journalism M.A. program are to refine the conceptual knowledge and skills of graduate journalism students through advanced writing, production and/or theory and methods courses, to offer comprehensive, media-related courses; and to provide expertise in an additional academic discipline.

Prerequisites to Degree Program: Students must have appropriate professional experience and/or an undergraduate degree in the journalism field that is approved by the graduate coordinator or the Journalism Graduate Faculty Committee as preparation for graduate study. A student must have a minimum undergraduate grade-point average of 3.00 and should earn a minimum score of 300 on the verbal and quantitative parts of the Graduate Record Examinations (including a minimum score of 151 on the verbal part), and a minimum score of 4.5 on the analytical writing section.

Requirements for the Master of Arts Degree: In addition to the requirements of the Graduate School (p. 241), the Master of Arts degree in Journalism requires a minimum of 30 semester hours with a cumulative grade-point average of 3.00. Students must complete:

1. 18 hours of graduate credit in journalism; all students must take JOUR 5023 Journalism Theory (Fa) and JOUR 5043 Research Methods in Journalism (Sp).
2. 6 hours of graduate credit in a single department other than journalism chosen by the student and approved by the graduate coordinator or the Journalism Graduate Faculty Committee, and
3. A master’s thesis (6 semester hours).

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Requirements for the Five-Year Bachelor/Master of Arts Degree: In addition to the requirements of the Graduate School, and all requirements for the Journalism Master’s Degree noted above, Five-Year B.A./M.A. students must apply for the program before the end of the first semester of their junior year. All senior year and graduate coursework for the Five-Year Journalism B.A./M.A. program must be taken at the University of Arkansas, Fayetteville. Only those students who are working on a Journalism B.A. degree at the U of A, Fayetteville with an overall GPA of 3.0 or higher in all semesters may apply to enter the Five-Year program. Only those students who go on to complete a Journalism B.A. degree at the U of A, Fayetteville with an overall GPA of 3.0 or higher in all semesters are eligible for admission, and if admitted, allowed to continue in the Five-Year program. Application does not guarantee admittance to the Five-Year B.A./M.A. program. All students must expect to enroll in summer school at various times as an undergraduate and graduate student to complete the Journalism B.A.-M.A. program in five years.
Students who apply in the first semester of the junior year, who are conditionally admitted to the Five-Year Master’s program, and have an overall GPA between 3.0 and 3.49, must take the GRE during their senior year. Only students who maintain an overall GPA of 3.5 or higher throughout all semesters of the undergraduate Journalism B.A. program may petition for admission into the Five-Year Journalism M.A. program without taking the GRE. All students who do not maintain a 3.5 overall GPA throughout all semesters of their undergraduate program are required to take the GRE.

Students who complete the Journalism B.A. at the University of Arkansas-Fayetteville and who are officially admitted to the Five-Year Journalism B.A./M.A. program may request that up to 12 hours of Journalism 5000-level courses taken in the final twelve month period of their undergraduate degree count toward their graduate degree: 1) if these courses were taken on the U of A, Fayetteville campus in the Lemke Journalism Department; 2) if the student was in good standing (e.g., not on probation, etc.); 3) if these were 5000 level courses or above; 4) if these courses were not used for the undergraduate degree; 5) if the student earned a grade of B or better in these courses; and 6) if these courses are approved by the student’s Master’s advisory committee or the Journalism graduate coordinator. Petition will be by the student’s advisory committee or the graduate coordinator to the Graduate School.

Students who complete a Journalism B.A. degree at the U of A, Fayetteville with an overall GPA of 3.5 or higher for all semesters may count toward the Five-Year Journalism M.A. degree up to 6 hours of Journalism 5000-level course work at the graduate and undergraduate level. Up to six hours can be counted for the undergraduate and graduate degrees only if the student earned a grade of B or better in those Journalism 5000-level courses and the courses are approved by the student’s Master’s advisory committee or the Journalism graduate coordinator. An additional six hours of Journalism 5000-level courses taken in the final 12-month period of their undergraduate degree may count toward their graduate degree only if all conditions and policies noted in the previous paragraph are met. No student may count more than twelve hours of Journalism 5000 level courses taken as an undergraduate toward the Five-Year Journalism M.A. degree.

Kinesiology (KINS)
http://kins.uark.edu/

The Kinesiology program prepares students with the competencies necessary to pursue career opportunities as ACSM certified fitness directors (M.S. Exercise Science concentration), clinical directors of a hospital or a clinically based program which performs rehabilitation services in the realm of movement for people with disabilities (M.S. Adapted Movement Science concentration), as teachers/scholars and leaders in a University-housed Kinesiology/Exercise Science program and Human Performance Laboratory setting (Ph.D. Kinesiology - Exercise Science concentration), and/or Pedagogy faculty settings (Ph.D. Kinesiology - Pedagogy concentration). The minimum number of credit hours for the M.S. degree is 33 and 60 hours are required for the Ph.D.

Areas of Concentration for the Master of Science Degree: Adapted movement science. Areas of specialization within the Exercise Science Concentration include biomechanics, exercise management, and exercise physiology.

Prerequisites to Degree Program: For acceptance to the master’s degree programs, the program area requires, in addition to the general requirements for admission to the Graduate School, an undergraduate degree in kinesiology or in a related field and the following admission standards: an overall undergraduate GPA of 3.00 or if the overall undergraduate GPA is between 2.70 and 2.99, the student must have a 3.00 GPA on the last 60 hours of undergraduate course work (excluding student teaching), or a GRE score of 1000 on the verbal and quantitative parts of the general test.

Requirements for the Master of Science Degree: Candidates for the M.S. degree in kinesiology with a concentration in either adapted movement science or exercise science must complete 27 semester hours of graduate work and a thesis or 33 semester hours without a thesis. A graduate GPA of 3.0 or better is required for graduation. In addition, all degree candidates must successfully complete a written comprehensive examination.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Adapted Movement Science Concentration: (33 hours)

<table>
<thead>
<tr>
<th>Required Research Component</th>
<th>KINS 5393</th>
<th>Statistics in Education and Health Professions (Sp, Su, Fa)</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KINS 6403</td>
<td>Educational Statistics and Data Processing (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HHPR 5353</td>
<td>Research in Health, Human Performance and Recreation (Sp, Su, Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>PHED 5413</th>
<th>Adapted Physical Education (Even years, Fa)</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EXSC 5323</td>
<td>Biomechanics I (Fa)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>KINS 5423</td>
<td>Assessment and Prescriptive Programming in Adapted KINS (Odd years, Sp)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EXSC 5513</td>
<td>Physiology Exercise I (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Project or Thesis</th>
<th>KINS 589V</th>
<th>Independent Research (Sp, Su, Fa)</th>
<th>3-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>or KINS 600V</td>
<td>Master's Thesis (Sp, Su, Fa)</td>
<td>3-6</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Approved Electives</th>
<th>6-9</th>
</tr>
</thead>
</table>

| Total Hours | 33 |

Exercise Science Concentration: (33 hours)

<table>
<thead>
<tr>
<th>Required Research Component</th>
<th>ESRM 5393</th>
<th>Statistics in Education and Health Professions (Sp, Su, Fa)</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>or ESRM 6403</td>
<td>ESRM 6403</td>
<td>Educational Statistics and Data Processing (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HHPR 5353</td>
<td>Research in Health, Human Performance and Recreation (Sp, Su, Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>EXSC 5513</th>
<th>Physiology Exercise I (Fa)</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EXSC 5323</td>
<td>Biomechanics I (Fa)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EXSC 5593</td>
<td>Practicum in Laboratory Instrumentation (Su, Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Project or Thesis</th>
<th>KINS 589V</th>
<th>Independent Research (Sp, Su, Fa)</th>
<th>3-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>or KINS 600V</td>
<td>Master's Thesis (Sp, Su, Fa)</td>
<td>3-6</td>
<td></td>
</tr>
</tbody>
</table>

| Approved Electives | 12-15 |
Areas of Concentration for the Doctor of Philosophy Degree: Pedagogy and Exercise Science.

Total Hours 33

Admission to Ph.D. Degree Program:
The applicant must have 1) completed a master’s degree or its equivalent in a field related to their specialization area to which they are applying, 2) meet general admission requirements of the Graduate School, 3) a GPA of at least 3.00 on all graduate course work; and 4) an acceptable score on the Graduate Record Examinations (GRE). Admission will be based on the willingness and ability of a graduate faculty member to accept a new student. Additional prerequisites may be prescribed after review of application materials.

Applications must include the following:
1) Curriculum vitae.
2) Statement of purpose and research interest, including specification of the area of concentration to which you are applying.
3) Academic transcripts
4) Three letters of recommendation

Requirements for the Doctor of Philosophy Degree:
A minimum of 60 graduate semester hours, including 18 hours of dissertation, is required after admission into the Ph.D. program. In the event required courses for the Ph.D. program have been taken during a student’s master’s degree program, they will need to substitute another graduate course in lieu of the required course. A doctoral advisory committee will be established by the student in consultation with the Coordinator of Graduate Study during the first semester of enrollment subsequent to acceptance into the degree program. The student, in conjunction with the advisory committee, will define the program of study. The degree program requires successful completion of qualifying examinations, dissertation, and an oral defense of the dissertation. These last requirements are described elsewhere in this catalog.

HHPR 5353 Research in Health, Human Performance and Recreation (Sp, Su, Fa) 3
ESRM 5393 Statistics in Education and Health Professions (Sp, Su, Fa) 3
HHPR 700V Doctoral Dissertation (Sp, Su, Fa) 18

Research and Statistical Requirements
A minimum of 18 hours approved by doctoral advisory committee. 18

Total Hours 42

Requirements for each area of concentration are presented below.

Requirements for Exercise Science Concentration:

Exercise Science Core
EXSC 5323 Biomechanics I (Fa) 3
EXSC 5513 Physiology Exercise I (Fa) 3
EXSC 5593 Practicum in Laboratory Instrumentation (Su, Fa) 3

Cognate

The student, in consultation with the doctoral advisory committee, will identify hours of further course work comprising a field of study in an area of interest. Course work may be selected from several related disciplines or a single discipline.

Electives
Students must complete 36 hours of graduate electives as approved by the doctoral advisory committee.

Total Hours 54

Requirements for the Pedagogy Concentration:

Pedagogy Core
PHED 5233 Research on Teaching in Physical Education (Odd years, Fa) 3
PHED 6363 Supervision in Physical Education (Odd years, Fa) 3
KINS 674V Internship (Irregular) 3
HHPR 689V Directed Research (Sp, Su, Fa) 3

Cognate
A minimum of 6 hours approved by doctoral advisory committee. 6

Electives
The student, in consultation with the doctoral advisory committee, will identify further course work comprising a field of study in kinesiology and consistent with the goals and objectives of the student and institution. Course work may be selected from several related disciplines or a single discipline.

Total Hours 54

Management (MGMT)
Faculty
Vikas Anand, Professor
Denise Breaux-Soignet, Clinical Assistant Professor
John Delery, Professor, Raymond F. Orr Chair in Management
Gary Dowdy, Instructor
Alan E. Ellstrand, Professor, Charles C. Fitcher Chair of Management
Anna Goussevskaia, Clinical Assistant Professor
Nina Gupta, Distinguished Professor, John H. Tyson Chair in Management
Jon Johnson, Professor, Walton College Professorship in Sustainability
Jennifer Kish-Gephart, Associate Professor
Rebecca McKnight, Instructor
Anne M. O’Leary-Kelly, Professor, William R. and Cacilia Howard Chair in Management
Brian K. Pullen, Instructor
Carol Reeves, Professor, Cecil and Gwendolyn Cupp Applied Professorship in Entrepreneurship
Jason Ridge, Assistant Professor
Carolyn Rodeffer, Instructor
Chris Rosen, Professor
Dan Worrell, Professor, Corporate Responsibility Professorship in Management

Alan Ellstrand
Department Chair
402 Walton College of Business
479-575-4007

Jon Johnson
Ph.D. Program Director
522 Willard J. Walker Hall
The exam will be administered over a three day period with the first day focusing on questions concerning the primary and secondary content areas, the second day being a day off to study a research article that will be covered on the research methods exam and the third day covering research methods. Successful completion of both parts of the comprehensive exam are required for admission to candidacy.

The exam will consist of three parts:

**Content:** Students will have questions from the two content areas they identified. There will be more questions on the primary area than the secondary area. Students will have some opportunity to choose among the questions. There will be some mandatory questions

**Methods:** All students will have the same methods questions. One part of the methods exam will be an article that students review a priori and critique. Students will have some opportunity to choose among the questions. There will be some mandatory questions.

**Specialty Area:** Each student taking the comprehensive exam will select a specialty area of emphasis and a management department faculty willing to sponsor that area. This area is one that the student is expected to be an expert in, and ideally, linked to his or her future dissertation area. The last part of the comprehensive exam will comprise questions that are based on the specialty area.

### Marketing (MKTG)

**Faculty**

Dub Ashton, Associate Professor  
Scot Burton, Distinguished Professor, Tyson Chair in Food and Consumer Products Retailing  
Nicole R. Cox, Instructor  
Betsy Howlett, Professor  
Molly R. Jensen, Clinical Associate Professor  
Thomas D. Jensen, Professor, Wal-Mart Lecturer in Retailing  
Steven W. Kopp, Associate Professor  
Jeff B. Murray, Professor, R.A. and Vivian Young Chair  
Molly Rapert, Associate Professor  
Robin Leigh Soster, Assistant Professor  
Robert E. Stassen, Associate Professor  
Anne M. Velliquette, Clinical Assistant Professor

### Ph.D. in Business Administration – Management Concentration

#### Management Content Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 6113</td>
<td>Seminar in Organizational Behavior (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6123</td>
<td>Seminar in Organization Theory (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6133</td>
<td>Seminar in Strategy Research (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6233</td>
<td>Seminar in Human Resource Management (Irregular)</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Supporting Fields

Courses for the supporting fields requirement are selected in consultation with the student’s Ph.D. Advisory Committee. All courses taken for the Supporting Fields must be at the graduate level and/or taken for graduate credit. Statistics and methods classes cannot be used to fulfill the Supporting Fields requirement. A minimum of 6 hours and a maximum of 9 hours are to be taken in Management. These hours may include MGMT 6223, Special Topics in Management, and, Special Problems.

#### Research Tools

Courses used to meet the Research Tools requirement will be selected in consultation with the student’s Ph.D. Advisory Committee and should support the student’s program of study. The courses should provide the student with a knowledge of advanced descriptive and inferential statistics, research design, and research methods.

#### Comprehensive Exam

Students will be required to take a comprehensive examination as a requirement of the PhD program in the Management Department. The exam will be administered over a three day period with the first day focusing on questions concerning the primary and secondary content areas, the second day being a day off to study a research article that will be covered on the research methods exam and the third day covering research methods. Successful completion of both parts of the comprehensive exam are required for admission to candidacy.

The exam will consist of three parts:

**Content:** Students will have questions from the two content areas they identified. There will be more questions on the primary area than the secondary area. Students will have some opportunity to choose among the questions. There will be some mandatory questions

**Methods:** All students will have the same methods questions. One part of the methods exam will be an article that students review a priori and critique. Students will have some opportunity to choose among the questions. There will be some mandatory questions.

**Specialty Area:** Each student taking the comprehensive exam will select a specialty area of emphasis and a management department faculty willing to sponsor that area. This area is one that the student is expected to be an expert in, and ideally, linked to his or her future dissertation area. The last part of the comprehensive exam will comprise questions that are based on the specialty area.
Ph.D. in Business Administration – Marketing Concentration

The Ph.D. in Business Administration with a Marketing Concentration allows students to concentrate within one of three areas: channels (e.g., retail, logistics, transportation, supply chain management), management (e.g., strategy, international, relationship marketing), or communications (e.g., consumer behavior, advertising, promotion). The student’s concentration will determine the courses taken in fulfilling the supporting fields requirement and the specialization for the comprehensive examination.

Program Requirements

Generally, the Ph.D. Program in Business Administration with a Marketing Concentration is comprised of 60 credit hours. Up to 6 credit hours of prior coursework may be applied to the requirements for the Marketing Concentration with the recommendation and consent of the student’s Ph.D. Program Advisory Committee.

Marketing Tools

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 6433</td>
<td>Seminar in Research Methods (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 6333</td>
<td>Individual-level Research in IS (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>12 hours of electives to be determined in consultation with the Ph.D. Program Advisory Committee.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Marketing Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 6443</td>
<td>Seminar in Marketing Theory (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 6413</td>
<td>Special Topics in Marketing (Irregular) (must be consumer behavior content)</td>
<td>3</td>
</tr>
</tbody>
</table>

Supporting Fields

Courses for the supporting field requirement are made in consultation with the student’s Ph.D. Program Advisory Committee. All courses taken for the supporting fields must be at the graduate level and/or taken for graduate credit. A minimum of nine hours should be taken in graduate research seminars.

Dissertation

A dissertation will be written under the guidance of the marketing faculty. The dissertation committee consists of a minimum of 3 graduate faculty members. One graduate faculty member outside the Marketing Department may be chosen for this committee depending on the dissertation topic.

Total Hours

60

Degrees Conferred:

M.S. (MATH)

Ph.D. (MATH) with concentrations in Mathematics and Statistics

M.A. in Secondary Mathematics (SMTH)

Primary Areas of Faculty Research: Analysis, algebra, geometric topology, numerical analysis, statistics.

Prerequisites to Degree Program: Prospective candidates for the Master of Science degree in Mathematics are expected to have completed a program equivalent to that required by the department for a B.S. degree, as set forth in the current catalog of the Fulbright College of Arts and Sciences. Deficiencies may be removed either by taking the appropriate undergraduate courses or by examination. In addition to the application for admission to the Graduate School and the transcripts required for Graduate School admission, applicants for admission to the degree programs of the Department of Mathematical Sciences must submit a) three letters of recommendation from persons familiar with the applicant’s previous academic and professional performance and b) official scores from the Graduate Record Examination (General Test).

The degree of Master of Science is intended for collegiate teachers of mathematics, non-teaching professional mathematicians, and those who desire to continue advanced study.

Requirements for the Master of Science Degree: This degree is offered under three separate options: a general option, a computational mathematics option, and a thesis option. The general and thesis options are intended for students who plan to be collegiate teachers of mathematics, continue advanced study in mathematics, or obtain a broad background for preparation as a non-teaching professional mathematician. The computational mathematics option is intended for students who intend to specialize in computational and applied
mathematics in preparation for professional employment in an interdisciplinary or computationally intensive environment.

The program of a candidate will be determined in conference with the candidate’s graduate adviser. A comprehensive examination must be passed by each candidate for the Master of Science degree. It should be taken near the end of the last semester of residence. At least four weeks prior to the scheduled date, students must notify the department of their intention to take the examination. No student may take the comprehensive examination more than three times. MATH 5001, MATH 504V, MATH 507V, MATH 5013, and MATH 5033 are not applicable to the Master of Science degree in mathematics. The program will include at least two semesters of one-hour credit in MATH 510V Mathematics Seminar.

All candidates must complete a minimum of 32 semester hours of approved graduate course work, including 12 semester hours in mathematics at the 5000-6000 level (excluding MATH 510V). All selected courses are subject to the approval of the Graduate Committee.

Students in the general option may include up to nine semester hours of graduate work in courses outside the department. The comprehensive examination for the general option will be a written exam including material covered in graduate course work.

The candidate for the computational mathematics option must include at least six but not more than twelve semester hours of graduate work in courses outside of mathematics. The comprehensive examination for the computational mathematics option will be similar to the examination for the general option but must include material covered in six semester hours of MATH 4353 and MATH 4363.

Students in the thesis option must complete 6 semester hours of MATH 610V with the candidate’s thesis adviser, which will count toward the 32 semester hours of approved graduate course work. In addition to a written comprehensive exam, the candidate will be required to complete an oral defense of the thesis. Reading copies of the thesis should be delivered to members of the Thesis Committee at least three weeks prior to undertaking the final examination.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Requirements for the Master of Arts Degree with a Major in Secondary Mathematics: This program is designed for secondary school teachers of mathematics. It requires 30 semester hours of graduate work.

Prospective candidates for the Master of Arts degree in secondary mathematics are expected to have earned a baccalaureate degree or equivalent with a major in a mathematical science (mathematics, statistics, operations research, or computer science), engineering, or a physical science, and credit in courses equivalent to MATH 2564, MATH 3083, MATH 3113, and MATH 3773.

The program has four components in which to earn a minimum of 30 semester hours of credit:

1. Graduate course work in mathematics content and content-based pedagogy. At least 12 hours of credit in graduate course work specifically designed for preparation for teaching secondary mathematics. The content will include probability, statistics, algebra, geometry, applied mathematics and advanced calculus with connections to secondary school mathematics. At least one of the courses must be in probability and statistics; one in algebra; and one in advanced calculus. Candidates will sit for examinations in three of the following areas: probability and statistics; algebra; geometry; advanced calculus; and mathematics education. Candidates will also present a portfolio describing the body of work with samples of student work and explanations of connections to secondary school mathematics. These courses are to be selected from:
   - MATH 4103 Advanced Linear Algebra (Irregular) 3
   - MATH 4153 Mathematical Modeling (Irregular) 3
   - MATH 4353 Numerical Linear Algebra (Sp) 3
   - STAT 4003 Statistical Methods (Sp, Fa) (with corequisite STAT 4001L) 3
   - STAT 5103 Introduction to Probability Theory (Fa) 3
   - MATH 5001 Connections to School Mathematics (Irregular) 1
   - MATH 5013 Abstract Algebra with Connections to School Mathematics (Irregular) 3
   - MATH 5033 Advanced Calculus with Connections to School Mathematics Teaching (Irregular) 3

2. Independent study and research in mathematics or mathematics education. From three to six hours of credit is available in independent study and research under the direction of mathematical sciences faculty. The results will be evidenced by a report roughly equivalent to a master’s thesis.

3. Advanced work in professional teacher preparation. Up to six hours of credit in MATH 507V is available for advanced work in preparation for teaching AP calculus, AP statistics, International Baccalaureate (IB) mathematics, or for achieving National Board Certification in (Adolescence and Young Adulthood) Mathematics. Other professional development activities with quality control features similar to those of the AP, IB, and National Board programs may be presented for consideration for credit. All such work must be sanctioned by the sponsoring organizations.

4. Graduate courses in education. Up to six hours of credit is available in graduate courses in education. The student’s committee must approve the courses. Recommended courses include:
   - CIED 5483 Teaching Mathematics (Irregular) 3
   - CIED 6013 Curriculum Theory, Development, and Evaluation (Odd years, Fa) 3
   - CIED 6023 Instructional Theory (Irregular) 3
   - CIED 6033 Content Specific Pedagogy (Irregular) 3
   - CIED 6043 Analysis of Teacher Education (Even years, Sp) 3
   - CIED 6053 Curriculum and Instruction: Learner Assessment and Program Evaluation (Even years, Fa) 3

Other graduate mathematics or statistics courses may be used in place of these courses with the approval of the student’s committee.

If allowed by Graduate School rules, credit previously earned may be applied to the requirements for this degree with the approval of the student’s advisory committee.

Each person receiving the Master of Arts degree in secondary mathematics must pass a written examination in three of the following areas: probability and statistics; algebra; geometry; advanced calculus; and mathematics education. No student will be allowed to take the examination more than three times. Candidates will also present
a portfolio describing the body of work with samples of their work as students and explanations of connections to secondary school mathematics.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Requirements for the Doctor of Philosophy Degree: Candidates for the degree of Doctor of Philosophy with a major in mathematics will be required to earn not less than 60 semester hours of course credit beyond the bachelor’s degree in mathematics and closely related fields. The number of hours and the courses for each student will be determined by the advisory committee. The candidate must fulfill the course requirements for the Master of Science degree in mathematics.

The basic requirement for the Ph.D. degree is the preparation of an acceptable dissertation. This dissertation must demonstrate the candidate’s ability to do independent, original, and significant work in mathematics. It is required that this dissertation possess the degree of excellence of research papers ordinarily published in the leading mathematical journals.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

A comprehensive examination is given each year during the weeks preceding the beginning of the fall and spring semesters. This examination is taken by all students in the graduate program who have completed the course requirements for the M.S. degree. The prospective candidate for the Ph.D. will be allowed to take the examination at most two times. A second failure to qualify eliminates a student from the graduate program in mathematics. After qualifying, a candidacy examination will be given covering the intended areas of specialization beyond the level of the qualifying comprehensive examination. It may be repeated once.

Students who wish to specialize in mathematics education must complete and pass qualifying examinations in two graduate sequences in mathematics plus one in mathematics education. Students must complete two of MATH 5013, MATH 5023, and MATH 5053 that are not in the topics of the two graduate qualifying sequences in mathematics. Students must complete four education graduate courses to study quantitative methods in education research and qualitative methods in education research. The recommended courses are ESRM 6413, ESRM 6423, ESRM 6533, and ESRM 6653, although these may be altered depending on the student’s previous study of STAT courses. Students must complete 15 hours of independent study in mathematics education to prepare for dissertation research. The areas of this study are: K-14 curriculum; learning theory; art of teaching and teacher education; and assessment and technology. The 15 hours must include a three-hour research project that will result in a pre-dissertation research report.

In addition to extending knowledge by personal reading and research, a doctoral graduate in mathematics will normally communicate knowledge to others. Therefore each student in the Ph.D. program is required to acquire the equivalent of one semester of full-time experience in teaching; this requirement may be fulfilled by part-time experience over several semesters. Typically, teaching assistantship appointments will satisfy this requirement, but other similar experience may qualify as approved by the department.

Mechanical Engineering (MEEG)

Faculty
David G. Albers Jr., Instructor
Rick J. Couvillion, Associate Professor
James Allen Davis, Instructor
John H. Hamilton, Instructor
Po-Hao Adam Huang, Associate Professor
David C. Jensen, Assistant Professor
Ing-Chang Jong, Professor
Jim Leylek, Professor, Twenty-First Century Leadership Chair in Engineering
Ajay P. Malshe, Distinguished Professor, Twenty-First Century Chair of Materials, Manufacturing and Integrated Systems
Paul Millett, Assistant Professor
Arun Nair, Assistant Professor
Darin W. Nutter, Professor
Larry Roe, Associate Professor, Twenty-First Century Endowed Chair
Douglas E. Spearot, Associate Professor
Steve Tung, Professor
Uchechukwu C. Wejinya, Associate Professor
Wenchao Zhou, Assistant Professor
Min Zou, Professor, Twenty-First Century Professorship

James Leylek
Department Head
204 Mechanical Engineering Building
479-575-3153
Fax: 479-575-4153
E-mail: jleylek@uark.edu

Darin W. Nutter
Graduate Program Coordinator
102C Mechanical Engineering Building
479-575-4503
Fax: 479-575-6982
E-mail: dnutter@uark.edu (dnutter@uark.edu)

http://www.meeg.uark.edu/

Degrees Conferred:
M.S.M.E. (MEEG)
Ph.D. in Engineering (ENGR) (See Engineering (p. 103))

Areas of Study: Thermal systems, mechanical design, nano/mesoscale materials science, and engineering mechanics.

Primary Areas of Faculty Research: Micro Electromechanical Systems (MEMS); Micro and Nano Systems; Structural Dynamics and Modal Analysis; Industrial and Commercial Energy Systems and Energy Conservation; Machining, Advanced Tooling and Coatings; Thermal and Mechanical Design of Electronic Packages; Material Failure Analysis and Design of Experiments; Unsteady Aerodynamics; Computational Materials Science; Tribology; Design Theory, Complex System Design and Analysis; Cyberphysical System Fault Modeling and Simulation.

Program Goals and Student Learning Objectives for the Master of Science Degree: The program goals are broad general statements of what the Mechanical Engineering Graduate Program intends to accomplish and describes what a student will be able to do after completing the degree requirements. They prepare students:

- For independent studies in mechanical engineering.
• To contribute new knowledge of fundamental or applied importance.
• To disseminate new knowledge of fundamental or applied importance.

Student Learning Outcomes are defined in terms of the knowledge, skills, and abilities that students will know and be able to do as a result of completing a program. These student learning outcomes are directly linked to the accomplishment of the program goals listed above. They are:

1. Students will gain advanced knowledge in mechanical engineering.
2. Thesis: Students will gain a necessary understanding of their research field; non-thesis: Students will apply advanced coursework to an engineering problem.
3. Thesis: Students will contribute new knowledge of fundamental or applied importance; non-thesis: Students will demonstrate important application(s) of existing knowledge.
4. Students will be able to communicate effectively during oral presentations.
5. Students will be able to communicate effectively in writing.

Requirements for the Master of Science Degree: In addition to the requirements of the Graduate School and the graduate engineering faculty, the following departmental requirements must be satisfied by candidates for the M.S.M.E. degree.

1. Candidates who present a thesis are required to complete a minimum of 24 semester hours of course work and six semester hours of thesis.
2. Candidates who do not present a thesis are required to complete a minimum of 33 semester hours of course work, which is to include at least three hours of credit for Research or Special Problems (including a formal engineering report), completed under direction of the candidate’s major adviser.
3. All students must present a grade-point average of 3.00 or better on all courses included in their plan of study, with no more than 6 hours of “C.”

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Requirements for the Doctor of Philosophy Degree (Engineering): Students desiring to pursue a doctoral degree in engineering under the direction of a professor in the Department of Mechanical Engineering must obtain a set of guidelines from the Graduate Coordinator.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Microelectronics – Photonics (MEPH)

Faculty
Simon S. Ang, Professor
Juan Carlos Balda, University Professor, Twenty-First Century Leadership Chair in Engineering
Salvador Barraza-Lopez, Assistant Professor
Ed Beam, Adjunct NANO Institute Scientist
Robert R. Beitle Jr., Professor
Laurent Bellaiche, Professor
Mourad Benamara, Assistant Professor
Jingyi Chen, Associate Professor
Zhong Chen, Assistant Professor
Hugh O.H. Churchill, Assistant Professor
Robert Coridan, Assistant Professor
Russell DePriest, Adjunct Assistant Professor
Jia Di, Professor, 21st Century Research Leadership Chair
Magda O. El-Shenawee, Professor
Ingrid Fritsch, Professor
Huaxiang Fu, Associate Professor
William G. Harter, Professor
Joseph Herzog, Visiting Assistant Professor
Jamie A. Hestekin, Associate Professor, Jim L. Turpin Professorship in Chemical Engineering
Colin David Heyes, Associate Professor
Po-Hao Adam Huang, Associate Professor
Morten O. Jensen, Associate Professor
Jin-Woo Kim, Professor
Pradeep Kumar, Assistant Professor
Jiali Li, Professor
Yanbin Li, Distinguished Professor, Tyson Endowed Chair in Biosensing Engineering
Ajay P. Malshe, Distinguished Professor, Twenty-First Century Chair of Materials, Manufacturing and Integrated Systems
Omar Manasreh, Professor
Alan Mantooth, Distinguished Professor, Twenty-First Century Chair in Mixed-Signal IC Design and CAD
Roy A. McCann, Professor
Paul Millett, Assistant Professor
Mahmoud Moradi, Assistant Professor
Timothy J. Muldoon, Assistant Professor
Arun Nair, Assistant Professor
Hameed A. Naseem, University Professor
William Oliver III, Associate Professor
Errol Porter, Research Associate
Donald K. Roper, Associate Professor, Charles W. Oxford Professorship in Emerging Technologies
Gregory J. Salamo, Distinguished Professor
R. Panneer Selvam, University Professor, James T. Womble Professor of Computational Mechanics and Nanotechnology Modeling
Shannon Servoss, Associate Professor, Ralph E. Martin Professorship in Chemical Engineering
Woodrow L. Shew, Assistant Professor
Surendra P. Singh, University Professor
Julie A. Stenken, Professor, 21st Century Chair of Proteomics
Ryan Tian, Associate Professor
Steve Tung, Professor
Ken Vickers, Adjunct Research Professor, Retired from PHYS, MEPH in 2015
Yong Wang, Assistant Professor
Morgan Ware, Assistant Professor
Uchechukwu C. Wejinya, Associate Professor
Min Xiao, Distinguished Professor
Fisher Yu, Associate Professor
Min Zou, Professor, Twenty-First Century Professorship

Rick Wise
Program Director
103 Nanoscale Material Science and Engineering Building
479-575-2875
E-mail: microEP@uark.edu (microEP@cavern.uark.edu)
http://microEP.uark.edu/
Degrees Conferred:
M.S., Ph.D. in Microelectronics-Photonics (MEPH)

This multidisciplinary program prepares students for careers in the development and manufacturing of micro- to nanoscale materials, processing, and devices in such industries as biosensing, photonics, telecommunications, microelectronics, and MEMs. Typical students in this program will be full-time students residing on campus, but provisions may be made to support remotely located part-time students already engaged in professional careers.

Philosophy of Graduate Education: All entering graduate students from June 1 through May 31 of the following year are formed into a Cohort. Cohort members form a natural work group during their first twenty-four months of graduate school, and the Cohort receives training in how to effectively apply their academic knowledge in professional group environments such as research- or teaching-based academic departments, large governmental research labs, or industrial settings. The Cohort training also fosters a supportive graduate community atmosphere that enhances the likelihood of academic success of all the program’s graduate students. The techniques used for this training have been developed at the University of Arkansas under the financial sponsorship of the NSF Integrative Graduate Education and Research Training (IGERT) program, and the Department of Education’s Fund for Improvement of Post Secondary Education (FIPSE) program. Through these methods, our graduate students exit our degree programs with the equivalent of one and a half years of on-the-job training in management techniques useful in a technology-based professional career setting.

Prerequisites to Degree Program: Applicants to the program must satisfy the requirements of the Graduate School as described in this catalog and have the approval of the Graduate Studies Committee of the Microelectronics-Photonics program (GSCMEP).

Candidates typically have completed a Bachelor of Science degree in either engineering or science, and candidates’ academic backgrounds will be evaluated by the GSCMEP for suitability to the graduate program. To be admitted to graduate study in Microelectronics-Photonics (microEP) without deficiency, candidates are required to have completed a math course sequence through differential equations, an introduction to quantum mechanics through courses such as PHYS 3603, PHYS 3614, or CHEM 3504, and an introduction to electricity and magnetism or electronic circuits. Other undergraduate deficiencies may be identified during the evaluation process, and degree completion will be contingent on successful completion of these identified deficiencies.

Prospective students from foreign countries in which English is not the native language must submit nationally recognized standardized testing results on written English proficiency for consideration by the Graduate School during the admission process. Students may be given conditional admittance pending demonstration of English language skills in appropriate courses at the University of Arkansas. Students wishing to apply for graduate assistantships that require direct contact with students in a teaching or tutorial role must meet the Graduate School’s English Language proficiency test requirements for such GA positions.

Requirements for the Master of Science Degree: Students choosing this degree program will be assigned an initial adviser upon acceptance to the program. This adviser will be their Cohort Manager during that academic year. Students will work with the Director of the Microelectronics-Photonics program to define their M.S. path to best support their career goals after graduation, with three curricula paths available to Microelectronics-Photonics students:

• Non-thesis path: Students who are funded by personal resources or by graduate assistantships not associated with research or educational grants may complete an M.S. degree with additional course work in place of independent research. While there may be specific narrow career options where this is an appropriate path, the Microelectronics-Photonics program strongly recommends the Professional or Academic paths as providing a much better overall career preparation for working in a technical position. Students completing this path cannot be accepted for the Ph.D. Microelectronics-Photonics program.

• Professional path: Students who plan to enter the technical marketplace after M.S. completion will find this path most beneficial as it requires independent graduate-level research in collaboration with an external technical organization. The research may be in the form of a traditional M.S. six-hour research topic and thesis, or may instead be in the form of two three-hour independent research efforts resulting in written reports with the clarity, style, analysis, and conclusions expected of a journal paper submission. Both the thesis and the written reports will be orally defended before the appropriate student committee. Students in this path will also be required to complete at least one internship of at least six weeks duration to experience a non-academic technical environment. Students completing this path may be considered by the GSCMEP for admission to the Ph.D. Microelectronics-Photonics program based on the strength of their academic course grades, their independent research depth, and the quality of the written research document.

• Academic path: Students who plan to complete an academic campus-based research thesis will take this path, although the research topic may include funding and collaboration with outside technical organizations. Students who complete all requirements for M.S. graduation, including an independent research project and thesis acceptable to their thesis committee, will be eligible without GSCMEP review for admission to the Ph.D. Microelectronics-Photonics program.

Students will form either a theses committee or an advisory committee after they have chosen their M.S. path, defined any independent research areas, and been accepted into a research group if appropriate. A thesis committee will be made up of at least three faculty members, with at least one faculty member each from the Fulbright College of Arts and Sciences and the College of Engineering (the student’s research professor will chair the thesis committee). The advisory committee will include at least one GSCMEP member, the supervising faculty member for a research experience, and the student’s cohort leader. If the student is in the Professional path, then either committee must also include at least one technical professional from the partner external organization as an adjunct faculty member or an ex officio committee member.

Students in this degree program can choose an Academic path, a Professional path, or a Non-thesis path. The course hours to meet the minimum requirements for each paths are as follows:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Academic Path/</th>
<th>Professional Path/</th>
<th>Non-Thesis Path/</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours</td>
<td>Hours</td>
<td>Hours</td>
</tr>
<tr>
<td>Science</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Engineering</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>MEPH 5383 Research Commercialization</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>
MEPH 5393 Research Commercialization and Product Development (Sp)  

Design of Experiments (such as BENG 5703)  

Second course in management of technology  

 MEPH 5811/5911/6811/6911 Oper Seminar  

 MEPH 5821 Ethics  

 MEPH 5832 Proposal Writing and Management  

 Technical Elective  

 DEPT 600V Research Thesis  

 MEPH 5513 Applied External Research  

 MEPH 5523 Applied Internal Research  

 MEPH 588V Independent Project  

 MEPH 555V External Technical Internship  

If a University of Arkansas undergraduate student is pursuing a Bachelor of Science degree in a department that has implemented an accelerated B.S./M.S. program (typically allowing six hours of graduate-level course work to be shared between the two degrees), the student may implement the same acceleration for a B.S. departmental degree/M.S. Microelectronics-Photonics degree set. Both the undergraduate department and the Microelectronics-Photonics program Director must approve the shared courses prior to enrollment.

Each student's curriculum must also address a need for a focus field. Each student completing a Microelectronics-Photonics degree must define a curriculum containing the following core requirements in the focus field to cover five aspects of micro- to nanoscale materials and devices. In the Applications aspect, every student must complete ELEG 4203 Semiconductor Devices (Irregular). In the Materials aspect, students must take at least one course emphasizing the nature of the materials applied in their chosen focus field. In the Fabrication aspect, students must take at least one course emphasizing the theory of micro- or nanoscale fabrication in their focus field. In the Fabrication Practice aspect, all students are highly encouraged to complete at least one course containing hands-on laboratory fabrication experience. In the Management of Technology aspect, every student must complete MEPH 5383 Research Commercialization and Product Development (Sp).

The Graduate Handbook of the Microelectronics-Photonics Graduate Program will contain a current list of approved courses in each of these areas that will allow students to optimize their curriculum within their focus field. Students may choose a course not listed in the handbook to fill an aspect's required course with the permission of their thesis committee and the Microelectronics-Photonics Director. Students who have acquired the knowledge contained in these courses through prior education may petition the Microelectronics-Photonics program Director for permission to substitute other classes for these core courses.

Additional core courses to develop operations management skills also have been defined for Microelectronics-Photonics students. During year one of their graduate studies at the University of Arkansas, students are required to take MEPH 5811 1st Year Operations Seminar - Infrastructure Management (Fa) and MEPH 5911 1st Year Operations Seminar - Personnel Management (Sp) in the fall and spring semesters and MEPH 5821 Ethics for Scientists and Engineers (Su) in their first summer. During year two, students are required to take MEPH 6811 and MEPH 6911 Operations Management Seminars in both fall and spring semesters and MEPH 5832 Proposal Writing and Management (Su) in their second summer. Students who begin their graduate studies at the University of Arkansas during the spring semester will be required to take MEPH 5811 in the fall semester following their completion of MEPH 6911 or to take MEPH 5811 concurrently with MEPH 6811. In addition, all cohort members participate in two days of industrial-style inventiveness and team training during the week directly preceding the start of fall classes. Three to five of these seven credit hours may be used in M.S. curricula, shown in the table, and the remaining credit hours may be applied as Ph.D.-level technical electives.

Students are required to attend monthly Microelectronics-Photonics Research Communication Seminars during the first three semesters of their M.S. degree program, and will enroll in MEPH 5611 Research Communication Seminar of MS Students (Sp, Fa) in their third semester. Students working more than 20 hours per week in a technology-based professional position approved by the Microelectronics-Photonics Director will not be required to be enrolled in this class or attend the monthly seminars as a condition for graduation.

Research thesis hours will be chosen from the department of the student's research adviser (e.g., PHYS 600V, ELEG 600V, etc.) and will require a written thesis successfully defended in a comprehensive oral exam given by the thesis committee.

A research thesis is required for Academic path students, and is optional for Professional path students. Professional path thesis research must include direct collaboration with an external technical organization.

A student in the Professional path may substitute two Applied Research efforts for a thesis under MEPH 5513 (External location) or MEPH 5523 (Internal on-campus location), provided each semester’s research is of graduate-level quality and is reported at the end of the semester through a written paper and in an oral presentation to the advisory committee (note that the written paper must match the clarity, style, analysis, and conclusions expected of a journal paper submission). Regardless of where the research is performed, it must include direct collaboration with an external technical organization.

Independent project hours in support of the Non-thesis path may be either MEPH 588V Special Problems in Microelectronics-Photonics (Irregular) or a departmental Special Problems course number, and will require a written project report modeled after a professional journal submission that
is then defended in a comprehensive oral exam given by the advisory committee.

If a student is taking either a special problems independent study course (such as MEPH 588V) or a special topics course (such as MEPH 587V) to meet partial requirements for their M.S. degree, then the instructor must supply the Microelectronics-Photonics program office with a syllabus of that class to be included in their program records. They syllabus must include at least the course title, semester, instructor name, a list of specific course objectives, sources of content knowledge, and method by which the student's mastery of the learning objectives is demonstrated.

Each student is required to enroll in at least one hour of course work each fall and spring semester until the M.S. degree is issued. If all required course work has been completed, the student may enroll in one hour of master's thesis, or in one hour of a special problems course for credit only.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Requirements for the Doctor of Philosophy Degree: Students choosing this degree program will be assigned an initial adviser upon acceptance to the program. This adviser will be their Cohort manager during that academic year. Students will consult with their Major Professor and their Cohort Manager to identify specific needs and interests, in order to prepare a specific action plan to correct student deficiencies identified by the exam. The student will be allowed to retake the written exam only one additional time, which must be during the next scheduled written examination period.

A Ph.D. curriculum will be defined to meet each student’s research interests as well as the Microelectronics-Photonics program’s interest in course breadth. It is to be expected that certain Master of Science degrees will be poorer matches to the Microelectronics-Photonics program focus areas and will therefore require a greater number of graduate courses in the Ph.D. curriculum as a requirement for graduation.

The course plan for each student must include a minimum of 27 hours of graduate coursework beyond the Master of Science degree requirements. Specific courses will be chosen by the student and must be approved by the student’s doctoral advisory committee. The coursework list for the Ph.D. degree will then be combined with the courses completed during the student’s Master of Science studies to assure that the combined course list includes:

1. at least 27 hours of 5000- and 6000-level courses in science and engineering,
2. at least six hours of courses relevant to the management of technology,
3. no more than six hours of special problems and no more than nine hours of special topics courses,
4. and no more than four hours of:

   M Eph 5811 1st Year Operations Seminar - Infrastructure Management (Fa) 1
   M Eph 5911 1st Year Operations Seminar - Personnel Management (Sp) 1
   M Eph 6811 2nd Year Operations Seminar - Management and Leadership (Fa) 1
   M Eph 5821 Ethics for Scientists and Engineers (Su) 1
   M Eph 5832 Proposal Writing and Management (Su) 2

If a student is taking either a special problems independent study course (such as MEPH 588V) or a special topics course (such as MEPH 587V) to meet partial requirements for their Ph.D. degree, then the instructor must supply the Microelectronics-Photonics program office with a syllabus of that class to be included in their program records. The syllabus must include at least the course title, semester, instructor name, a list of specific course objectives, sources of content knowledge, and method by which the student’s mastery of the learning objectives is demonstrated.

Students are required to attend monthly Microelectronics-Photonics Research Communication Seminars during the first five semesters of their Ph.D. degree program, and will enroll in MEPH 6611 Research Communication Seminar of PhD Students (Sp, Fa) in their fifth semester. Students working more than 20 hours per week in a technology-based professional position approved by the Microelectronics-Photonics Director will not be required to be enrolled in this class or attend the monthly seminars as a condition for graduation.

In addition to these conditions, the 21 hours of research dissertation will be taken under departmental course numbers such as PHYS 700V, CHEG 700V, CHEM 700V, ELEG 700V, etc. as appropriate to match to the department of each student’s major research professor. The dissertation format must meet all Graduate School published guidelines and the Microelectronics-Photonics guidelines as listed in the Microelectronics-Photonics Graduate Student Handbook. A Ph.D. candidate wishing to use a compilation of published papers for the
dissertation must receive explicit permission from the GSCMEP to use this style dissertation at least six months prior to his or her dissertation defense, with a meeting between the student’s committee chair and the GSCMEP required before permission can be granted.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

**Modern Languages (MLAN)**

Steven Bell  
Chair of Department of World Languages, Literatures and Cultures  
425 Kimpel Hall  
479-575-2951  
E-mail: sbell@uark.edu

Nancy Arenberg  
Graduate Coordinator of French  
425 Kimpel Hall  
479-575-2947  
E-mail: arenberg@uark.edu

Brett Sterling  
Graduate Coordinator of German  
425 Kimpel Hall  
479-575-2951  
E-mail: bsterli@uark.edu

languages.uark.edu

**Degree Conferred:**

M.A. (MLAN)

**Areas of Concentration:** French and German. Supporting courses are offered in Greek and Latin.

**Primary Areas of Faculty Research:** Please refer to the Department of World Languages, Literatures and Cultures website for detailed information on faculty members and their areas of expertise.

**Prerequisites to Degree Program:** The student must have a B.A. degree or equivalent from an accredited institution with suitable preparation in the chosen foreign language and be accepted by the department. Deficiencies in undergraduate major or prerequisites for advanced courses may be included in the student’s program. The Master of Arts Degree in Modern Languages is offered in two tracks, German and French.

**Master of Arts Degree in Modern Languages, French Track**

The Master of Arts degree in Modern Languages, French Track offers course work related to the literary and cultural histories of the greater Francophone world, focusing on France. The program provides advanced preparation in literary analysis and research and offers training for teaching French at the college level, including the most recent technological techniques in teaching foreign languages. Graduates of the program receive a solid preparation to pursue a Ph.D. or to teach at the college or secondary levels. Our comprehensive curriculum enables students to pursue careers in education, government, international organizations and other business opportunities either abroad or within the United States. In conjunction with the Comparative Literature and Cultural Studies program (CLCS), the program contributes to the Master’s and Ph.D. programs for students working in either Francophone literature, translation, French literature or French cultural studies.

**Requirements for the Master of Arts Degree in Modern Languages, French Track:** Aside from deficiencies, a minimum of 36 semester hours is required for the degree; six of the hours must be selected from the following courses: WLLC 4023, WLLC 4033, WLLC 5063 or other approved WLLC courses. Each M.A. candidate will submit a list of their course work to the graduate adviser before taking the comprehensive exam, which is comprised of a written and an oral exam. The content of the M.A. exam covers course work and the reading list. All course selections must be approved by the graduate adviser.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

**Master of Arts Degree in Modern Languages, German Track**

The Master of Arts Degree in Modern Languages, German Track offers course work related to the greater German-speaking world, including Germany, Austria, and Switzerland. The program offers a traditional, canon-centered degree in literary history. Students concentrate primarily on courses investigating literary epochs and particular genres that are focused on literary analysis and research.

Graduates of the program generally continue study at the doctoral level at other institutions or complete alternative licensure or the M.A.T. to teach at the secondary level. Doctoral training in cultural studies and translation is also offered in conjunction with the Comparative Literature and Cultural Studies Program.

**Requirements for the Master of Arts Degree Modern Languages, German Track:** Aside from deficiencies, a minimum of 36 semester hours of course work is required for the degree, six hours of which must be selected from the following courses: WLLC 4023, WLLC 4033, WLLC 5063. Each candidate must pass a comprehensive examination covering course work and a reading list. Upon admission to this program the candidate will be assigned an adviser who, in consultation with the candidate, will design a suitable program for the candidate. The adviser, in consultation with other members of the department, will select an examination committee for the comprehensive written and oral examinations. Detailed program descriptions, including reading lists and examination procedures, are available from the department.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

**Music (MUSC)**

**Faculty**

Daniel Abrahams, Assistant Professor  
Stephen E. Caldwell, Assistant Professor  
Benjamin A. Chamberlain, Instructor  
Nophachai Cholthitchanta, Associate Professor  
Theresa R. Delaplain, Instructor  
Jamal Duncan, Instructor  
David G. Gerstein, Instructor  
Alan R. Gosman, Associate Professor  
Benjamin Harris, Instructor  
Er-Gene Kahng, Associate Professor  
Tomoko Kashiwagi, Instructor  
Chris Knighten, Associate Professor  
Janet Whitman Knighten, Assistant Professor
Benjamin Lorenzo, Assistant Professor
Christopher J. MacRae, Instructor
Ronda M. Mains, Professor
David Malis, Assistant Professor
Elizabeth Hellmuth Margulis, Professor
Jura Margulis, Professor
Matthew W. Mihalka, Instructor
Dale D. Misenhelter, Professor
Stan Morris, Instructor
Robert K. Mueller, Professor
Jeffrey A. Murdock, Assistant Professor
Catalina Ortega, Instructor
Miroslava Saifur Panayotova, Instructor
Moon Park, Assistant Professor
Benjamin J. Pierce, Professor
Chal Ragsdale, University Professor
Nastassja Riley, Lecturer
Richard J. Rulli, Associate Professor
Henry S. Runkles, Lecturer
Rick Salonen, Instructor
Timothy F. Thompson, Professor
W. Dale Warren, Professor

Ronda Mains
Department Chair
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479-575-4701
E-mail: rmains@uark.edu

Er-Gene Kahng
Director of Graduate Advising
201 Music Building
479-575-4701
E-mail: ekahng@uark.edu (sgates@uark.edu)

http://www.uark.edu/depts/uamusic/

Degree Conferred:
M.M. (MUSC)

Graduate Certificate Offered:
Advanced Performance (non-degree)

Master of Music

Areas of Concentration for the M.M. in Music: Applied music, composition, theory, instrumental and choral conducting, music history, and music education.

Prerequisites for applying to the Master of Music Degree Program:

Applicants should possess a bachelor’s degree with a major in music from an accredited institution. The applicant must apply to both the Graduate School and the Department of Music. In addition, applicants should schedule an audition/interview with the appropriate music faculty.

The specific requirements for admission to each individual concentration of the Master of Music degree program are:

1. Performance and Collaborative Piano applicants must audition for, or submit a DVD of a recorded performance to the appropriate graduate faculty.
2. Music Education applicants are expected to have prior teaching experience and submit a DVD of a recent classroom teaching experience.
3. Music History and Music Theory applicants should submit a paper representative of their work as well as scores for the Graduate Record Exam.
4. Composition applicants are required to submit three of their compositions.

Requirements for the Master of Music Degree: In addition to the general requirements of the Graduate School the following must be met:

1. All candidates pursuing the degree of Master of Music with concentrations in, Collaborative Piano, Composition, Conducting, Music History, Music Theory, and Performance are required to take a diagnostic exam for aural and written theory and history prior to the beginning of their first semester of study. Any student diagnosed with deficiencies will be required to register for remedial courses.
2. Candidates needing to augment their piano skills will be required to take additional piano study.
3. Candidates are required to take comprehensive written examinations followed by an oral examination after the completion of coursework.
4. All candidates must participate in at least one ensemble per semester throughout their residence unless pursuing a concentration in Composition, Music Theory, Music History, or Music Education.
5. Candidates for the Master of Music in History are expected to have or acquire reading and writing proficiency in the foreign language corresponding to their field of research (preferably German, Italian, or French).

The programs of study are listed below. All course selections are subject to approval of the graduate adviser in consultation with applied teacher or thesis director.

A. Master of Music in Performance, Instrumental

I. Applied Music

<table>
<thead>
<tr>
<th>Required Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUAP 510V</td>
</tr>
<tr>
<td>MUAP 5201</td>
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<tr>
<td>MUAP 5211</td>
</tr>
</tbody>
</table>

II. Music History, Ethnomusicology, and Music Theory

<table>
<thead>
<tr>
<th>Required Courses</th>
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</thead>
<tbody>
<tr>
<td>MUHS 5973</td>
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<tr>
<td>MUHS 5903</td>
</tr>
</tbody>
</table>

Select one of the following: 3

<table>
<thead>
<tr>
<th>Required Courses</th>
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</thead>
<tbody>
<tr>
<td>MUTH 477V</td>
</tr>
<tr>
<td>MUTH 5623</td>
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<tr>
<td>MUTH 5343</td>
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<tr>
<td>MUTH 5643</td>
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</tbody>
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Select one of the following: 3

<table>
<thead>
<tr>
<th>Required Courses</th>
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</thead>
<tbody>
<tr>
<td>MUHS 4253</td>
</tr>
</tbody>
</table>

III. Electives

To be selected from music courses at the 4000-6000 level with the consent of the adviser and to include not more than 4 hours of ensemble.
B. Master of Music in Performance, Keyboard:

I. Applied Music
MUAP 510V  Applied Voice/Instrument (Sp, Fa)  14
MUAP 5201 Graduate Recital I (Sp, Fa)  1
MUAP 5211 Graduate Recital II (Sp, Fa)  1

II. Music History, Ethnomusicology, and Music Theory
MUHS 5973 Seminar in Bibliography and Methods of Research (Fa)  3
Three or more hours of 5000-level MUHS or MUSY courses selected in consultation with the student’s major adviser  3

Select one of the following:
MUAP 510V  Special Topics in Music Theory (Irregular)
MUTH 5643 Analytical Techniques (Irregular)
MUTH 5623 Pedagogy of Theory (Irregular)
MUTH 5643 Analysis of 20th Century Music (Irregular)

III. Electives
To be selected from music courses at the 4000-6000 level with the consent of the adviser and to include not more than 4 hours of ensemble
Note: Study of keyboard literature is required if not adequately covered in the undergraduate degree presented for admission but will count toward the degree as an elective.

Total Hours 36

C. Master of Music in Performance, Voice:

I. Applied Music Requirements include:
MUAP 510V  Applied Voice/Instrument (Sp, Fa) (total 14 hours, to include):
   a) Preparation of one complete operatic or oratorio role
   b) Demonstration of language proficiency in English and three foreign languages

Note: Foreign language proficiency may be demonstrated by the undergraduate transcript, undergraduate classes taken at the University of Arkansas, or by examination by the Department of World Languages, Literatures, and Cultures. Minimum requirements include two semesters of Italian, two semesters of French or German, and one semester of the remaining language.

MUAP 5201 Graduate Recital I (Sp, Fa)  1
MUAP 5211 Graduate Recital II (Sp, Fa)  1
MUEN 5401 Opera Theatre (Sp, Fa) (two semesters)  2

II. Music History, Ethnomusicology, and Music Theory
MUHS 5973 Seminar in Bibliography and Methods of Research (Fa)  3
Three or more hours of 5000-level MUHS or MUSY courses selected in consultation with the student’s major adviser  3

Select one of the following:
MUAP 510V  Special Topics in Music Theory (Irregular)
MUTH 5643 Analytical Techniques (Irregular)
MUTH 5623 Pedagogy of Theory (Irregular)
MUTH 5643 Analysis of 20th Century Music (Irregular)
MUHS 4253 Special Topics in Music History (Sp, Fa)
MUHS 4253 or MUHS 4963H

III. Electives
To be selected from the following courses with the consent of the adviser:
MUHS 4253 Special Topics in Music History (Sp, Fa)  3
One 5000-level MUHS course  3
One music theory class to be selected from the following:  3
MUAP 510V  Special Topics in Music Theory (Irregular)
MUAP 5201 Pedagogy of Theory (Irregular)
MUAP 5211 Analysis of 20th Century Music (Irregular)
MUHS 5563 Collaborative Piano Literature I, Woodwind and Brass Repertoire (Even years, Fa)  3
MUHS 5573 Collaborative Piano Literature II, String Repertoire (Odd years, Sp)  3

Total Hours 36

D. Master of Music in Collaborative Piano:

I. APPLIED MUSIC (16 hours)
MUAP 510V  Applied Voice/Instrument (Sp, Fa) (Note: MUAP is taken every semester for four semesters)  14
MUAP 5201 Graduate Recital I (Sp, Fa)  1
MUAP 5211 Graduate Recital II (Sp, Fa)  1

II. MUSIC THEORY, MUSIC HISTORY AND MUSIC LITERATURE (15 hours):
MUHS 5973 Seminar in Bibliography and Methods of Research (Fa)  3
One 5000-level MUHS course  3
One music theory class to be selected from the following:  3
MUAP 510V  Special Topics in Music Theory (Irregular)
MUAP 5643 Analytical Techniques (Irregular)
MUTH 5623 Pedagogy of Theory (Irregular)
MUAP 5643 Analysis of 20th Century Music (Irregular)
MUHS 5563 Collaborative Piano Literature I, Woodwind and Brass Repertoire (Even years, Fa)  3
MUHS 5573 Collaborative Piano Literature II, String Repertoire (Odd years, Sp)  3

III. ELECTIVES (5 hours)
To be selected from the following courses with the consent of the adviser:
MUHS 4763 Survey of Vocal Literature I (Even Years, Fa)  3
MUHS 4773 Survey of Vocal Literature II (Odd years, Sp)  3
MUPD 584V Opera Workshop Techniques (Sp, Fa)  3
MUTH 4322 Score Reading (Fa)  3
MUPD 582V Conducting (Sp, Fa)  3
MUHS 4733 Survey of Symphonic Literature (Even years, Sp)  3

Total Hours 36

E. Master of Music in Composition:

I. Music Theory and Composition
MUTH 5643 Analysis of 20th Century Music (Irregular)  3
or MUTH 5343 Analytical Techniques (Irregular)  3
MUTH 568V Composition (Sp, Fa) (must be repeated for 6 hours)  6
MUTH 600V Master’s Thesis (Sp, Su, Fa)  6

Electives in Music Theory  6
II. Music History, Ethnomusicology, and Literature
MUHS 5973 Seminar in Bibliography and Methods of Research (Fa) 3
Three or more hours of 5000-level MUHS or MUSY courses selected in consultation with the student’s major adviser 3

III. Electives
Graduate-level courses to be selected from MUAP, MUEN (4 credit maximum), MUHS, MUSY, MUTH, or MUPD areas or other disciplines with consent of the major adviser. 9

Total Hours 36

F. Master of Music in Music Theory:

I. Music Theory and Composition
MUTH 5623 Pedagogy of Theory (Irregular) 3
MUTH 5643 Analysis of 20th Century Music (Irregular) 3
or MUTH 5343 Analytical Techniques (Irregular)
MUTH 600V Master's Thesis (Sp, Su, Fa) 6
Courses to be selected from MUTH courses at the 4000- or 5000-level (9 hours minimum).

II. Music History, Ethnomusicology, and Literature
MUHS 5973 Seminar in Bibliography and Methods of Research (Fa) 3
Three or more hours of 5000-level MUHS or MUSY courses selected in consultation with the student’s major adviser 3

III. Electives
Graduate-level courses to be selected from MUAP, MUEN (4 credit maximum), MUHS, MUSY, MUTH, or MUPD areas or other disciplines with consent of the major adviser. 9

Total Hours 36

G. Master of Music in Music History

I. Music History and Literature
MUHS 5973 Seminar in Bibliography and Methods of Research (Fa) 3
MUHS 5903 Seminar in Musicology (Sp, Fa) (Select a different topic each semester for three semesters.) 9
Select one of the following: 2-3
MUHS 5722 Directed Studies in Music Literature I (Sp, Fa)
MUHS 5732 Directed Studies in Music Literature II (Sp, Fa)
MUHS 5952 Choral History and Literature I (Irregular)
MUHS 5942 Seminar in Opera (Irregular)
MUHS 4253 Special Topics in Music History (Sp, Fa)
MUHS 600V Master's Thesis (Sp, Su, Fa) 6

II. Applied Music
MUAP 5001 Applied Voice/Instrument-Secondary Level (Sp, Fa) 4

III. Music Theory
Six hours to be selected from the following: 6
MUTH 477V Special Topics in Music Theory (Irregular)
MUTH 5343 Analytical Techniques (Irregular)
MUTH 5623 Pedagogy of Theory (Irregular)
MUTH 5643 Analysis of 20th Century Music (Irregular)

IV. Electives
Courses either within the music department or in related fields, subject to the approval of the major adviser. Five-six credit hours as needed to total 36 hours for the degree.

Total Hours 36

H. Master of Music in Instrumental Conducting

I. Music Theory
MUTH 4612 Orchestration (Sp) 2
or MUTH 5672 Advanced Orchestration (Irregular)
MUTH 4322 Score Reading (Fa) 2
Select one of the following: 3
MUTH 477V Special Topics in Music Theory (Irregular)
or MUTH 5343 Analytical Techniques (Irregular)
or MUTH 5643 Analysis of 20th Century Music (Irregular)

II. Music History and Literature
MUHS 4793 Band Literature (Irregular) 3
MUHS 5903 Seminar in Musicology (Sp, Fa) 3
MUHS 5973 Seminar in Bibliography and Methods of Research (Fa) 3
Select one of the following: 2-3
MUHS 4253 Special Topics in Music History (Sp, Fa)
MUHS 5943 Seminar in Opera (Irregular)
MUHS 5952 Choral History and Literature I (Irregular)
MUHS 5962 Choral History and Literature II (Irregular)

III. Applied Music
MUAP 5001 Applied Voice/Instrument-Secondary Level (Sp, Fa) (woodwind, brass, or percussion instruments) 4

IV. Conducting
MUDP 582V Conducting (Sp, Fa) (four semesters, two hours per semester) 8
MUAP 5201 & MUAP 5211 Graduate Recital I (Sp, Fa) and Graduate Recital II (Sp, Fa) 2

V. Electives
4

Total Hours 36-37

I. Master of Music in Choral Conducting

I. Music Theory
MUTH 4322 Score Reading (Fa) 2
Select one of the following: 3
MUTH 477V Special Topics in Music Theory (Irregular)
or MUTH 5343 Analytical Techniques (Irregular)
or MUTH 5643 Analysis of 20th Century Music (Irregular)

II. Music History and Literature
MUHS 5903 Seminar in Musicology (Sp, Fa) 3
MUHS 5973 Seminar in Bibliography and Methods of Research (Fa) 3
MUHS 5952 Choral History and Literature I (Irregular) 2
MUHS 5962 Choral History and Literature II (Irregular) 2

III. Applied Music
MUAP 5001 Applied Voice/Instrument-Secondary Level (Sp, Fa) (two semesters of voice and two semesters of piano or organ) 4

IV. Conducting
Graduate Certificate in Advanced Performance

The Graduate Certificate in Advanced Performance is a performance-intensive program for students who already possess the Master of Music or its equivalent. It is designed for all areas of applied study, and is intended for the advanced performer. (Note: The graduate certificate is not a degree.)

Prerequisites to the Graduate Certificate: To enter this program, students must be admitted by the Graduate School and should consult with the Director of Graduate Studies in Music for the specific area of study in which they are interested. The Department Chair and the Director of Graduate Studies in Music, in consultation with the faculty of the specific area, will determine acceptance, provisional acceptance contingent on the making up of specific deficiencies, or rejection of the student for admission to the program in the specific area of concentration.

Requirements for the Graduate Certificate: In addition to the general requirements of the Graduate School the following conditions must be met:

1. All students seeking admission to the program for the Graduate Certificate must show evidence of outstanding performance aptitude and proficiency and demonstrate clear potential for a career as a professional musician.
2. All applicants must present an audition with advanced repertoire encompassing four different style periods and not lasting less than 30 minutes.
3. All applicants must display proficiency in music theory and history at the Master of Music level or equivalent through transcripts or an entry examination.
4. At the end of the program the student must present a full length recital (ca. 70 min).

The programs of study are listed below. All course selections are subject to the approval of the graduate adviser in consultation with the applied teacher.

Course Requirements: 16 hours

I. Applied Music

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUAP 510V</td>
<td>Applied Voice/Instrument (Sp, Fa)</td>
<td>9</td>
</tr>
<tr>
<td>MUAP 5201</td>
<td>Graduate Recital I (Sp, Fa)</td>
<td>1</td>
</tr>
</tbody>
</table>

II. Electives

To be selected from music courses at the 4000-6000 level with the consent of the adviser. Possible areas of study include composition, conducting, chamber music, music theory, and music history.

Areas of applied music concentration: Piano, violin, viola, violoncello, string bass, clarinet, bassoon, flute, oboe, alto saxophone, French horn, trombone, baritone, tuba, trumpet, percussion.

Total Hours: 16
application of knowledge and skills in evidence-based leadership, education, and clinical practice. Completion of the M.S.N. program provides the essential foundation for seamless academic progression into a research or practice-focused doctoral program.

Upon the completion of the program of studies the graduate will be able to:

1. Promote evidence-based practice through problem identification and the critique of research findings.
2. Collaborate in policy development, resource management, and cost-effective care delivery.
3. Apply legal/ethical principles to promote a values-based professional practice.
4. Affect health care outcomes through advanced nursing roles of clinician, teacher, manager, researcher, and consultant.
5. Utilize theories from nursing and other disciplines for decision making.
6. Advocate for access to quality health care for diverse populations.
7. Collaborate with other disciplines to design, deliver, and evaluate health care services for diverse populations.
8. Provide executive, education and clinical leadership in a variety of health care and academic settings.

Requirements for the M.S. Nursing in Nurse Executive Leader Concentration:

In addition to the general requirements of the Graduate School, students must complete a minimum of 38 credit hours (including a thesis) including the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
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</table>

Graduate Nursing Core 12

Graduate Nursing Research Core 4

Leadership Concentration Core 13

Leadership Clinical Core 6

Thesis or Special Project 3

Total Hours 38
Doctor of Nursing Practice

The Doctor of Nursing Practice provides the terminal degree for nurses who will assume leadership roles as practitioners or specialists in the field of nursing. There are two entry levels for students: 1) post completion of the baccalaureate degree in nursing and licensure as a registered nurse (RN), or 2) post completion of a master's degree in nursing that has resulted in national certification as an advanced practice nurse (nurse practitioner, clinical nurse specialist, nurse midwife, or nurse anesthetist). The online program is built upon the standards set forth by the American Association of Colleges of Nursing's Essentials of Doctoral Education for Advanced Nursing Practice (2006), and incorporates specialty standards of the Acute Care Nurse Practitioner Competencies (2004) and the National Association of Clinical Nurse Specialists (2009). As such, students completing the B.S.N. to D.N.P. program of study will be eligible to sit for the adult-geriatric acute care nurse practitioner (ACNP), the adult/geriatric clinical nurse specialist (CNS), or the Family Nurse Practitioner (FNP) certification exam offered by the American Nurses Credentialing Center (ANCC) based on the concentration completed. Students in both entry levels must complete a capstone project and 1,000 clinical hours while enrolled in a graduate program. Current advanced practice nurses who enter the program as post-master’s students must complete clinical hours while enrolled in a graduate program. A variety of distance learning methods will be used to expedite clinical requirements. However, students should anticipate at least one visit to the main campus during their program of study.

Upon completion of the program, graduates will be able to:

1. Evaluate and utilize advanced knowledge and theories from nursing and related disciplines to solve complex health issues for individuals, aggregates, populations, and systems.
2. Design, implement and evaluate strategies that promote and sustain quality improvement at the organizational and policy levels.
3. Provide leadership in the transformation of health care through interprofessional collaboration, application of technology, and policy development.
4. Incorporate evidence-based clinical prevention and health services for individuals, aggregates, and populations.
5. Demonstrate clinical expertise, systems thinking, and accountability in designing, delivering, and evaluating evidence-based care to improve outcomes.

Areas of concentration for the B.S.N.-D.N.P. student: Adult/geriatric acute care nurse practitioner; adult/geriatric clinical nurse specialist; or family nurse practitioner.

Admission Requirements for the M.S.N. and D.N.P. Degrees:

1. Admission to the University of Arkansas Graduate School
2. Submission of GRE scores for M.S.N. and B.S.N.-D.N.P. students.
3. Completion of the Eleanor Mann School of Nursing (EMSON) application.
4. Completion of a baccalaureate degree in nursing from an NLNAC or CCNE accredited program and for post-M.S.N. to D.N.P. students, a master’s degree in nursing from an NLNAC or CCNE accredited program.
5. Current unencumbered licensure to practice as a registered nurse, and for M.S.N.-D.N.P. students, APN licensure, if required by student’s state of residence and certification as an APRN.

6. Completion of a basic health assessment course (academic or continuing education).
7. Completion of a basic-level statistics course with a grade of “C” or above. Additionally, for M.S.N. to D.N.P. students, completion of a graduate-level health policy course with a grade of “B” or above.
8. Evidence of current CPR (American Heart Association for Professionals) certification, TB screening, Hepatitis B vaccination or titer showing immunity, Tdap/Td, Varicella vaccination or titer showing immunity, MMR vaccination, annual flu vaccination, and health insurance.
9. Basic computer and library skills including the use of electronic databases.
10. Qualified applicants will be admitted on a space available basis.

Following admission to the program and prior to enrolling in the first clinical course (NURS 5111 Advanced Health Assessment for B.S.N.-D.N.P. students and NURS 6224 Specialty Practice Clinical III for M.S.N.-D.N.P. students), the students must:

- Complete a background check by Dead Day of the previous semester in which they will enroll in the clinical course.
- Provide EMSON with proof of HepB, TB, CPR, MMR, Varicella, and Tdap/Td vaccinations and proof of health insurance by Dead Day of the previous semester in which they will enroll in the clinical course.
- Provide evidence of a current license to practice as a registered nurse in the state where precepted hours will be provided by Dead Day of the previous semester in which they will enroll in the clinical course.
- Provide evidence of national certification and licensure as an advanced practice nurse – if their state of residency requires licensure – for post-MSN students in the DNP program.
- Complete a drug screen within a four week time period prior to the first day of class of the semester in which the student is enrolled in the clinical course.
- Provide any other requirements requested by the clinical institution.

Master of Science in Nursing Requirements for the Master of Science in Nursing Degree, Nurse Educator Concentration:

In addition to the general requirements of the Graduate School, students must complete a minimum of 39 credits (42 credits with thesis option) including the following courses:

**Graduate Nursing Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>NURS 5043</td>
<td>Concepts of Health Promotion Within Diverse Populations (Fa)</td>
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<td>Evidence-Based Practice and Innovation in Nursing (Sp)</td>
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<td>or NURS 5523</td>
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<td>Health Care Policy (Su)</td>
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<td>or NURS 6263</td>
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**Nursing Scholarship Core**

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<tr>
<td>ESRM 6403</td>
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<td>NURS 5401</td>
<td>Scholarly Writing (Fa)</td>
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including the following courses:

**Advanced Practice Core**
- NURS 5143: Advanced Pathophysiology (Sp) 3
- NURS 5102: Advanced Health Assessment, Physical Examination and Diagnostic Reasoning (Sp) 2
- NURS 5123: Pharmacotherapeutics (Su) 3

**Nursing Education Core**
- NURS 5073: Curriculum Design and Development in Nursing Education (Sp, Fa) 3
- NURS 5083: Methods of Assessment and Evaluation in Nursing Education (Sp, Fa) 3
- NURS 5093: Instructional Design and Delivery in Nursing Education (Sp, Fa) 3

**Specialization**
- NURS 5343: Specialty Development I (Sp) 3
- NURS 5353: Specialty Development II (Fa) 3

**Thesis or Research Project**
- NURS 579V: Independent Study (Sp, Su, Fa) 3-6
- or NURS 600V: Master's Thesis (Sp, Su, Fa) 3

As an alternative to completing a thesis, students may elect the scholarly project option and are required to complete a three-credit independent study. Students who intend to pursue doctoral preparation are strongly urged to select the thesis option. All candidates for the Master of Science in Nursing (M.S.N.) must successfully complete a comprehensive written exam.

**Requirements for the M.S. Nursing with Clinical Nurse Specialist Concentration:**
In addition to the general requirements of the Graduate School, students must complete a minimum of 41 credits (44 credits with thesis option) including the following courses:

**Graduate Nursing Core**
- NURS 5003: Theoretical and Scientific Foundations for Nursing Practice (Fa) 3
- NURS 5043: Concepts of Health Promotion Within Diverse Populations (Fa) 3
- NURS 5053: Evidence-Based Practice and Innovation in Nursing (Sp) 3
- NURS 5063: Health Care Policy (Su) 3

**Advanced Practice Core**
- NURS 5033: Role Development (Fa) 3
- NURS 5143: Advanced Pathophysiology (Sp) 3
- NURS 5102: Advanced Health Assessment, Physical Examination and Diagnostic Reasoning (Sp) 2
- NURS 5111: Clinical Practicum: Advanced Health Assessment, Physical Examination, and Diagnostic Reasoning (Sp) 1
- NURS 5123: Pharmacotherapeutics (Su) 3

**Clinical Specialist Core**
- NURS 5212: Acute and Critical Illness in Adult and Geriatric Populations (Fa) 2
- NURS 5225: Clinical Practicum: Acute and Critical Illness in Adults and Geriatric Populations (Fa) 5
- NURS 5232: Chronic Illness in Adult and Geriatric Populations (Sp) 2

**NURS 5245**: Clinical Practicum: Chronic Illness in Adult and Geriatric Populations (Sp) 5

Students complete a total of 500 hours of clinical practicum. Students who select the thesis option complete a minimum of six credits of thesis that will count toward the degree. As an alternative to completing a thesis, students may elect the scholarly project option and are required to complete a three-credit independent study. Students who intend to pursue doctoral preparation are strongly urged to select the thesis option. All candidates for the Master of Science in Nursing (M.S.N.) must successfully complete a comprehensive written exam.

**Doctor of Nursing Practice Programs Concentration in Family Nurse Practitioner**
In addition to the general requirements of the Graduate School, students who have earned a Bachelor of Science in Nursing must complete a minimum of 79 hours with the following requirements for the Doctor of Nursing Practice with a concentration in Family Nurse Practitioner.

One or more campus visits may be required for skills acquisition.

**Core Courses**
- ESRM 6403: Educational Statistics and Data Processing (Sp, Su, Fa) 3
- NURS 5003: Theoretical and Scientific Foundations for Nursing Practice (Fa) 3
- NURS 5033: Role Development (Fa) 3
- NURS 5043: Concepts of Health Promotion Within Diverse Populations (Fa) 3
- NURS 5053: Evidence-Based Practice and Innovation in Nursing (Sp) 3
- NURS 5063: Health Care Policy (Su) 3
- NURS 5102: Advanced Health Assessment, Physical Examination and Diagnostic Reasoning (Sp) 2
- NURS 5111: Clinical Practicum: Advanced Health Assessment, Physical Examination, and Diagnostic Reasoning (Sp) 1
- NURS 5123: Pharmacotherapeutics (Su) 3
- NURS 5143: Advanced Pathophysiology (Sp) 3
- NURS 5523: Healthcare Informatics (Fa) 3
- NURS 6123: Evaluation Methods and Translational Research for Evidence-based Practice (Fa) 3
- NURS 6233: Healthcare Economics and Finance (Sp) 3
- NURS 6263: Organization Management and Systems Leadership (Su) 3
- PBHL 6833: Principles of Epidemiology II (Sp, Su) 3

**Clinical Courses**
- NURS 5272: Clinical Practicum: Interpretive Diagnostic Reasoning (Su) 2
- NURS 5483: Primary Care of Emerging Issues (Fa) 3
- NURS 5454: Adult-Geriatric (Chron) Clinical I (Fa) 4
- NURS 5542: Primary Care of Women and Children (Irregular) 2
- NURS 5495: FNP Specialty Clinical II (Irregular) 5
- NURS 559V: Seminar (Irregular) 1
- NURS 6224: Specialty Practice Clinical III (Su) 4
- NURS 6244: Specialty Practice Clinical IV (Fa) 4
- NURS 628V: Specialty Practice Clinical V (Sp) 1-4
Concentration in Adult-Geriatric Acute-Care Nurse Practitioner

In addition to the general requirements of the Graduate School, students who have earned a Bachelor of Science in Nursing must complete a minimum of 79 hours with the following requirements for the Doctor of Nursing Practice with a concentration in Adult-Geriatric Acute-Care Nurse Practitioner. One or more campus visits may be required for skills acquisition.

### Core Courses

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Total Hours: 79

Concentration in Adult-Geriatric Clinical Nurse Specialist

In addition to the general requirements of the Graduate School, students who have earned a Bachelor of Science in Nursing must complete a minimum of 79 hours with the following requirements for the Doctor of Nursing Practice with a concentration in Adult-Geriatric Clinical Nurse Specialist. One or more campus visits may be required for skills acquisition.

### Core Courses

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NURS 7122  Capstone Implementation in Practice Setting I (Fa)  2
NURS 7132  Capstone Seminar II (Sp)  2
NURS 7142  Capstone Implementation in Practice Setting II (Sp)  2

**Total Hours**  79

**Requirements for the Post-M.S.N. Doctor of Nursing Practice**

In addition to the general requirements of the Graduate School, students who have earned a Master of Science in Nursing must complete the following requirements for the Doctor of Nursing Practice degree. One or more campus visits may be required for skills acquisition.

**Advanced Core**

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**Clinical Courses**

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**Total Hours**  38

**Operations Management (OPMG)**

**Faculty**

D. James Bingham, Instructor
Richard Cassady, Professor
Gregory T. Hutto, Instructor
Otto J. Loewer Jr., Professor
Edward A. Pohl, Professor, Twenty-First Century Professorship in Engineering
Amy H. Rossetti, Instructor
Manuel D. Rossetti, Professor
John A. White Jr., Distinguished Professor

Also offered through Graduate Resident Centers

Gregory S. Parnell
Program Director
4207 Bell Engineering Center
479-575-3413
Email: msom@uark.edu
http://operations-management.uark.edu

In addition to the University of Arkansas faculty listed under the faculty tab, the following adjunct professors are part of the program in Operations Management: Altom, Beam, Bean, Belcher, Brown, Burgin, Casey, Cash, Collier, Costello, DelCastillo, Donatelli, Ellixson, Eveleth, Fite, Flynn, Gagnon, Gamer, Hemphill, Henderson, Hill, Jackson, Jones (P.), Jones (T.), Lattanzi, Lithgow, Magri, Mason, Masterson, McGlynn, Mellenthin, Mickelson, Moores, Morris (A.), Morris (J.), Morrison, Nethercutt, Payne, Perrin, Pohl (L.), Rasmussen, Raynor, Richardson, Rieske, Rister, Roberson, Robinson, Roy, Sandsmark, Smith, Teague, Ward, Wells (M.) Wells (M.M.), Weiss, Wilke, Williams, Wilson, Wright, Yeager, Zilinsky.

**Degree Conferred:**

M.S.O.M. (OPMG)

The Master of Science program in Operations Management is directed toward the acquisition of practical knowledge in the management of work processes, projects, and people. Areas covered include project management, quality management, economic decision-making, supply chain management, operations research, safety management, lean production and inventory control techniques, and human behavior analysis.

The operations management program is conducted at Graduate Residence Centers in Arkansas, Tennessee, and Florida, as well as at Fayetteville. Evening classes are offered in eight-week terms with five terms scheduled during an academic year. Selected courses are available online and via independent study. The operations management curriculum is aimed at the needs of working managers of technical and logistics operations, as well as managers of production, service delivery and support functions in a wide spectrum of organizations, ranging from business/industry to military, government and non-profit. The program is open to students regardless of the major they selected as an undergraduate. The subject matter is patterned after the industrial engineering curriculum but is less technical and does not require a calculus mathematics background.

Admission to the program generally follows U of A Graduate School admission policies with the following exceptions:

1. The program does not permit the use of the MAT as an entrance test to compensate for undergraduate GPAs below 3.0. The GRE and GMAT are acceptable tests, but the analytical writing score must be 4.5 or above;
2. All applicants, including those with advanced degrees, will be evaluated for admission on the basis of their first baccalaureate degree.
3. OMGT 5003 must be taken in the first term of operations management graduate study.
4. Before taking any graduate classes in the program, non-native speakers of English who do not have a conferred undergraduate degree from an accredited U.S. college or university must demonstrate minimum proficiency on one of the following tests of written English: TOEFL, IBT (26), ELPT (75) or GRE/GMAT Analytical Writing (4.5). The MSOM English Language Proficiency Policy requires Level II non-native speakers of English to complete ELAC 4043 Research Writing in the STEM fields no later than the first semester of graduate level courses. In addition to course pre-requisites, before completing 12 hours of course work toward the operations management degree, students must successfully complete the following courses (or equivalent courses or demonstrate knowledge of these subject areas acceptable to the program):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMGT 4313</td>
<td>Law and Ethics (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>OMGT 4323</td>
<td>Industrial Cost Analysis (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>OMGT 4333</td>
<td>Applied Statistics (Sp, Su, Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>
These courses are offered at the undergraduate level and cannot be applied toward the requirements for a Master of Science in Operations Management degree.

To fulfill requirements for the M.S.O.M. degree, a student must earn a total of 30 semester hours credit in the program. Of these hours, 12 hours consist of required courses, while the remaining 18 hours are electives.

Required courses are:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMGT 5003</td>
<td>Introduction to Operations Management (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>OMGT 5783</td>
<td>Project Management for Operations Managers (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>OMGT 5623</td>
<td>Strategic Management (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>or OMGT 5873</td>
<td>Organizing for Change (Irregular)</td>
<td></td>
</tr>
<tr>
<td>OMGT 5123</td>
<td>Finance for Operations Managers (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>or OMGT 5463</td>
<td>Economic Decision Making (Irregular)</td>
<td></td>
</tr>
</tbody>
</table>

If a core course requirement offers a choice between two options, only one can be counted as the required course. Required courses must be taken in the first 18 hours of graduate coursework and be completed with a grade of “B” or better. Students who earn a “C” or lower in a required course may repeat the course only once. Failure to earn a “B” or better in any of the four required courses will result in dismissal from the program.

A minimum grade-point average of 3.0 (A = 4.0), calculated from the University of Arkansas graduate courses in this curriculum, must be met as a graduation requirement. Please note that if a student must retake a class to meet the grade requirements of this program, both the original grade and the retaken grade will count in the calculation of the GPA for graduation purposes.

While a thesis is not required, upon approval of the program director students may take up to six thesis hours to be applied toward the 30 semester hours required for degree completion. The six hours of thesis must be completed on the Fayetteville campus.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

**Philosophy (PHIL)**

**Faculty**

- Jacob Adler, Associate Professor
- Eric M. Funkhouser, Professor
- Warren Herold, Assistant Professor
- Richard N. Lee, Associate Professor
- Jack C. Lyons, Professor
- Oksana Maksymchuk, Assistant Professor
- Edward H. Minar, Professor
- Thomas D. Senor, Professor
- Christopher W. Stevens, Visiting Assistant Professor
- Barry M. Ward, Associate Professor

- Edward Minar, Department Chair
- 313 Old Main
- 479-575-8712

Erik Funhouser

Chair of Graduate Committee
- 308 Old Main
- 479-575-7441

E-mail: phildept@uark.edu

http://www.uark.edu/depts/philinfo/

**Degrees Conferred:**

- M.A., Ph.D. (PHIL)

**Areas of Study:** History of philosophy (including ancient, medieval, modern, early analytic, and continental), metaphysics, epistemology, ethics, social and political philosophy, philosophy of language, philosophy of mind, philosophy of religion, and philosophy of science.

**Prerequisites to Degree Program:** Admission to the program is subject to the approval of the graduate committee of the Department of Philosophy. For the M.A., the normal expectation is 18 hours in philosophy, including logic. Students with fewer hours in philosophy may be admitted with deficiencies. In addition to the materials required by the Graduate School, at least two letters of recommendation, a sample of written work, and GRE aptitude scores (if available) should be submitted to the department chair. For the Ph.D., completion of an M.A. degree in philosophy is required.

**Requirements for the Master of Arts Degree:** (Min. 33 hours.)

1. 27 total hours of course work with a cumulative GPA of 3.00 or better. These hours must include:
   a. Satisfaction of the course distribution requirement, which is as follows: one course each in ancient Greek philosophy, modern philosophy, value theory, and metaphysics/epistemology. Only courses in which the student earns a grade of “B” or better will count towards fulfilling the course distribution requirement. A student may petition the graduate committee to take an exam in one or more of the above areas, which, if passed, would satisfy the distribution requirement for the area(s) in question.
   b. Symbolic Logic I or II with a grade of “C” or better, or equivalent, or exam in symbolic logic.
   c. Nine hours of course work in graduate seminars.

2. An acceptable thesis and a successful oral examination before the thesis committee. With the approval of the graduate committee, the oral exam may be taken a second time.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

**Requirements for the Doctor of Philosophy Degree:**

1. 24 hours of course work beyond completion of the M.A. in philosophy (with the approval of the graduate committee, up to six hours may be taken in another discipline). Course work beyond the M.A. must satisfy the following conditions:
   a. Only courses in which a “B” or better is earned count toward the 24 hours of course work required for the Ph.D.
   b. Symbolic Logic I or II, or equivalent, or exam in symbolic logic.
   (This requirement is waived for candidates who have completed the above M.A. program.)
   c. At least nine hours of graduate seminar work in philosophy.
d. By the time final course work is taken, students must have satisfied course distribution requirements comparable to those for the M.A. degree (1a., above).

2. Qualifying Examinations:
   a. Comprehensive Exam: The student must pass a comprehensive examination of his or her main area of specialization.
   b. Prospectus Exam: The student must write a dissertation proposal and pass an oral preliminary dissertation examination covering the proposal and the topic of the dissertation.

3. An acceptable dissertation, successfully defended before the dissertation committee.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Through an agreement with the Academic Common Market (p. 298), residents of certain Southern states may qualify for graduate enrollment in the doctoral program in philosophy as in-state students for fee purposes.

Physical Education (PHED)

The Master of Education degree in Physical Education is a 33-credit-hour program that includes a 6-credit-hour research component (statistics/research) and a 27-credit-hour program core. All degree candidates must successfully pass a culminating written comprehensive examination and achieve a minimum of 3.0/4.0 GPA to graduate. Two courses using Web technology (Blackboard and other online resources) will be offered every semester (Fall, Spring, Summer) and the entire degree program can be completed in a two-year period. The online Master of Education Degree program is designed to meet the needs of current professionals in the field (physical education teachers, athletic directors, coaches) who desire to attain further education and an advanced degree in physical education.

Prerequisites to the M.Ed. Degree Program: For acceptance to the master’s degree program in physical education, the program area stipulates, in addition to the general requirements of the Graduate School, an undergraduate degree in physical education or in a related field. Additional prerequisites may be prescribed by the program area.

Requirements for the Master’s of Education Degree: Candidates for the master’s degree in physical education must complete 27 semester hours of graduate work and a thesis or 33 semester hours without a thesis. In addition to the program requirements listed below, all candidates must successfully complete a written comprehensive examination.

Physical Education: (33 hours)

Required Research Component

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESRM 5393</td>
<td>Statistics in Education and Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>or ESRM 6403</td>
<td>Educational Statistics and Data Processing</td>
<td></td>
</tr>
<tr>
<td>HHPR 5353</td>
<td>Research in Health, Human Performance and Recreation</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHED 5253</td>
<td>The Physical Education Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>PHED 5273</td>
<td>Professional Issues in Physical Education and Sport</td>
<td>3</td>
</tr>
<tr>
<td>PHED 5243</td>
<td>Sport Skill Assessment and Instructional Strategies</td>
<td>3</td>
</tr>
</tbody>
</table>

Approved Electives

- KINS 5643 Motor Learning (Sp) 3
- KINS 5753 Sport Psychology (Su) 3
- KINS 605V Independent Study (Sp, Su, Fa) 1-3
- PHED 6383 Supervision in Physical Education (Odd years, Fa) 3

Total Hours 31-33

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Physical Science (PHSC)

Lothar Schäfer
Chair of Studies
218 Chemistry Building
479-575-4601
E-mail: schafer@uark.edu

Physics (PHYS)

Faculty
Salvador Barraza-Lopez, Assistant Professor
Laurent Bellaiche, Professor
Hugh O.H. Churchill, Assistant Professor
Huaxiang Fu, Associate Professor
Julio R. Gea-Banacloche, Professor
Bothina Hamad, Research Associate
William G. Harter, Professor
Tacy Marie Joffe Minor, Assistant Professor
Daniel John Kennefick, Assistant Professor
Julia Dusk Kennefick, Assistant Professor
Pradeep Kumar, Assistant Professor
Bret Darby Lehmer, Assistant Professor
Jiali Li, Professor
William Oliver III, Associate Professor
Sergey Prosandeev, Associate Professor
Wei Ren, Assistant Professor
Gregory J. Salamo, Distinguished Professor
Woodrow L. Shew, Assistant Professor
Surendra P. Singh, University Professor
Tamara D. Snyder, Assistant Professor
Paul M. Thibado, Professor
Reeta Vyas, Professor
Yong Wang, Assistant Professor
Rick Wise, Research Professor
Min Xiao, Distinguished Professor

Julio Gea-Banacloche
Department Chair
226 Physics Building
479-575-2506
E-mail: physics@cavern.uark.edu

Huaxiang Fu
Chair, Graduate Affairs Committee
226 Physics Building
479-575-8608

http://www.uark.edu/depts/physics/
Degrees Conferred:
M.A., M.S., Ph.D. (PHYS)

Primary Areas of Faculty Research: Atomic and molecular physics; biophysics; condensed matter physics; laser physics; nanoscience; physics education; quantum optical physics; space and planetary sciences; surface physics; and theoretical physics.

Prerequisites to M.S. and Ph.D. Degree Programs: Prospective students must satisfy the requirements of the Graduate School as described in this catalog and have the approval of the Graduate Admissions Committee of the Department of Physics. In addition, to be admitted to graduate study in physics without deficiency, candidates should have an undergraduate degree with the equivalent of a 30-hour major in physics including intermediate-level courses in mechanics, electricity and magnetism, quantum physics and thermal physics, and mathematics through differential equations. Students who present less than the above may be admitted with deficiency dependent on degree track subject to the approval of the department’s Graduate Admissions Committee. Students may eliminate deficiencies while concurrently enrolling in graduate courses, provided prerequisites are met. While submission of Graduate Record Examination scores is not required for admission, students who have taken the GRE advanced physics test are urged to submit their test scores to the physics department to facilitate advising and placement.

Prerequisites to M.A. – Education Concentration Degree Program: The Department offers a Master of Arts Degree - Education Concentration. This program is designed for in-service secondary school teachers or students interested in teaching in community colleges. To be admitted to this program, students are expected to have earned credit in courses equivalent to:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 2054</td>
<td>University Physics I (ACTS Equivalency = PHYS 2034)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2074</td>
<td>University Physics II (ACTS Equivalency = PHYS 2044 Lecture)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3113</td>
<td>Analytical Mechanics (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 3613</td>
<td>Modern Physics (Sp, Su, Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

Deficiencies may be removed either by taking appropriate courses or by examination.

Requirements for the Master of Arts Degree: Students choosing this degree program must form an advisory committee consisting of the research adviser as chair and two other members of the graduate faculty, at least one of whom must be from the Physics Department, by April 30 in their first year of study.

The M.A. degree requires 30 semester hours of graduate work. The candidate’s program must include at least six semester hours of physics courses numbered 5000 or above, and at least three hours of PHYS 502V. Not more than nine semester hours of credit toward this degree will be allowed from physical science and graduate education courses. All courses selected to apply to this degree must be approved by the student’s adviser in accordance with the above requirements. Recommended courses include:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 4113</td>
<td>Physics in Perspective (Odd years, Sp)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 4213</td>
<td>Physics of Devices (Odd years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 462VL</td>
<td>Modern Physics Laboratory (Sp)</td>
<td>1-3</td>
</tr>
<tr>
<td>PHYS 588V</td>
<td>Selected Topics in Experimental Physics (Irregular)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Each person receiving the Master of Arts degree – Education concentration must have at least one hour of Master’s Research, satisfied by a written research report based either on the PHYS 502V, PHYS 588V, or PHYS 590V project. A final comprehensive oral exam is given by the advisory committee.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Requirements for the Master of Science Degree: Students may choose between two Master of Science degrees in the physics department. These are the M.S. Physics (30-hour thesis path); and the M.S. Physics (36-hour non-thesis path). Both M.S. degree curricula prepare a student for the Physics Ph.D. degree.

Incoming graduate students will be advised by a departmental graduate adviser for the first two years. Students must form their thesis or advisory committees by the end of their third academic semester and file the appropriate forms with the Graduate School. The thesis committee (thesis-path students) consists of the research adviser as chair, two members of the physics faculty, and one member of the graduate faculty not from the Physics Department. The advisory committee (for non-thesis-path students) consists of the individual study project adviser as chair and two members of the physics faculty. Students in this degree program can choose either a 30-semester-hour thesis path or a 36-semester-hour non-thesis path.

Both the thesis and non-thesis M.S. degrees share the following academic requirements: Completion of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 5011</td>
<td>Introduction to Current Physics Research Seminar (Fa)</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 5073</td>
<td>Mathematical Methods for Physics (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 5413</td>
<td>Quantum Mechanics I (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 5313</td>
<td>Advanced Electromagnetic Theory I (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 5323</td>
<td>Advanced Electromagnetic Theory II (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 5111</td>
<td>Research Techniques Through Laboratory Rotations (Sp)</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 5041</td>
<td>Journal Club Seminar (Sp)</td>
<td>1</td>
</tr>
</tbody>
</table>

Students who have had similar courses at another institution may substitute up to 12 credit hours of other courses in lieu of those listed above, on a course-by-course basis, upon petitioning the Graduate Affairs Committee.

Elective courses will be used for the remaining required degree hour. The minimum number of physics elective hours, the maximum number of non-physics technical elective hours, and the minimum number of total elective hours are shown in the table.

<table>
<thead>
<tr>
<th>Degree</th>
<th>Physics Electives</th>
<th>Technical Electives</th>
<th>Total Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.S. Physics Thesis</td>
<td>9</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>M.S. Physics Non-Thesis</td>
<td>18</td>
<td>0</td>
<td>18</td>
</tr>
</tbody>
</table>

Students will select electives from courses listed in the graduate catalog as appropriate to their field of specialization, with course selection approved by their thesis committee. For the purposes of this degree
requirement, any Astronomy (ASTR) graduate course listed in the Graduate Catalog and taught through the physics department will be considered a Physics elective.

No more than one 4000-level course may be counted toward the 30-hour requirement for the thesis option, and no more than two 4000-level courses may be counted toward the 36-hour requirement for the non-thesis option.

Requirements for Thesis-Path M.S. Degrees: Completion of six master’s thesis hours under PHYS 600V and a written thesis successfully defended in a comprehensive oral exam given by the student’s thesis committee.

Requirements for Non-thesis Path M.S. Degrees: Completion of three hours under PHYS 502V Individual Study in Advanced Physics and a written project report successfully defended in a comprehensive oral exam given by the student’s advisory committee. Students who pass the Physics Ph.D. candidacy examination will be considered to have satisfied the PHYS 502V requirement of the non-thesis path M.S. degrees.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Requirements for the Doctor of Philosophy Degree: To be admitted to candidacy for the Ph.D. degree the student must a) form a dissertation committee; b) pass the candidacy exam, c) obtain a minimum of B-grade in core physics courses and d) file a Declaration of Intent with the Graduate School.

Incoming graduate students will be advised by a departmental adviser for the first two years. Students must form their dissertation committees by the end of their third academic semester and file the appropriate forms with the Graduate School. The dissertation committee consists of the research adviser as chair, three members of the Physics faculty, and one member of the graduate faculty not from the Physics Department.

The candidacy examination covers three areas: Quantum mechanics, electromagnetism, and classical mechanics, all at the graduate level, although questions at the undergraduate level may also be asked. The exam is given on three days in the week preceding the start of the Spring semester classes. Students entering the graduate program in the Fall semester will take the exam no later than after three semesters of graduate study at the University of Arkansas, and those entering the graduate program in the Spring semester will take it no later than after the fourth semester of graduate study. A passing grade of 55 percent in each area will be required. The students will be allowed a second and final attempt in the failed areas the following year. In the exceptional cases where after the second attempt, the student has failed only one area and his/her score in that area is not below 50 percent, the faculty may allow a third attempt or an oral exam. This exam will be given within six weeks after the second attempt.

Ph.D. students must complete a minimum of 40 semester-hours in 5000- and/or 6000-level courses beyond their Bachelor of Science degree. Courses taken to fulfill the requirements for the University of Arkansas M.S. physics degrees can be included in this 40 semester-hour requirement. Students who have had similar courses as part of an M.S. physics program at another institution may obtain a waiver for up to 21 credit hours, on a course-by-course basis, upon petitioning to the Graduate Affairs Committee.

Ph.D. students must take:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 5011</td>
<td>Introduction to Current Physics Research Seminar (Fa)</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 5111</td>
<td>Research Techniques Through Laboratory Rotations (Sp)</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 5041</td>
<td>Journal Club Seminar (Sp)</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 5073</td>
<td>Mathematical Methods for Physics (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 5413</td>
<td>Quantum Mechanics I (Fa)</td>
<td>6</td>
</tr>
<tr>
<td>PHYS 5423</td>
<td>Quantum Mechanics II (Sp)</td>
<td>6</td>
</tr>
<tr>
<td>PHYS 5103</td>
<td>Advanced Mechanics (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 5213</td>
<td>Statistical Mechanics (Odd years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 5263L</td>
<td>Experiment and Data Analysis (Sp)</td>
<td>3</td>
</tr>
</tbody>
</table>

A minimum grade of B is required in the following core courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 5073</td>
<td>Mathematical Methods for Physics (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 5413</td>
<td>Quantum Mechanics I (Fa)</td>
<td>6</td>
</tr>
<tr>
<td>PHYS 5423</td>
<td>Quantum Mechanics II (Sp)</td>
<td>6</td>
</tr>
<tr>
<td>PHYS 5313</td>
<td>Advanced Electromagnetic Theory I (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 5323</td>
<td>Advanced Electromagnetic Theory II (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 5103</td>
<td>Advanced Mechanics (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 5263L</td>
<td>Experiment and Data Analysis (Sp)</td>
<td>3</td>
</tr>
</tbody>
</table>

If a minimum grade of B is not obtained, the course may be repeated once. If the student cannot obtain a minimum of B on two attempts, he/she will not be allowed to continue in the Ph.D. program.

Thirteen additional hours in elective physics graduate courses will be required, and they must be selected from the 5000- or 6000-level courses listed in the graduate catalog appropriate to the student’s field of specialization and approved by the student’s advisory committee. For the purposes of this degree requirement, any Astronomy (ASTR) graduate course listed in the Graduate Catalog and taught through the physics department will be considered a physics elective. Additional elective courses outside of the physics department may be taken with dissertation committee approval.

Ph.D. students must also earn 18 hours of credit in Doctoral Dissertation, submit a dissertation, and defend it successfully in a comprehensive oral examination given by the dissertation committee.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

**Plant Pathology (PLPA)**

**Faculty**

- **Burt H. Bluhm**, Associate Professor
- **Steven A. Brooks**, Adjunct Associate Professor
- **Jim Correll**, Professor
- **Martin J. Egan**, Assistant Professor
- **Travis Faske**, Associate Professor
- **Ken L. Korth**, Professor
- **Robert Thomas Robbins**, University Professor
- **Clemencia Rojas**, Assistant Professor
- **Craig S. Rothrock**, Professor
- **John C. Rupe**, Professor
- **J. Ples Spradley**, Extension Associate Professor
- **Terry Spurlock**, Extension Assistant Professor
- **Ioannis E. Tzanetakis**, Associate Professor

Craig Rothrock
Plant Science (PTSC)

Faculty

Burt H. Bluhm, Associate Professor
John R. Clark, University Professor
Jim Correll, Professor
Michael R. Evans, Professor
Douglas Edward Karcher, Associate Professor
Terry Kirkpatrick, Professor
Ken L. Korth, Professor
Garry Vernon McDonald, Assistant Professor
Mike Richardson, Professor
Robert Thomas Robbins, University Professor

Curt R. Rom, University Professor
Craig S. Rothrock, Professor
John C. Rupe, Professor
Vibha Srivastava, Professor
Ioannis E. Tzanetakis, Associate Professor

The doctoral program in Plant Science is an interdepartmental program involving the departments of Plant Pathology and Horticulture.

Degree Conferred:
Ph.D. (PTSC)

Areas of Concentration: Horticulture, Plant Pathology.

Primary Areas of Faculty Research: Biological control of plant diseases, breeding for disease resistance, fungal biology, diseases of crop plants, mycotoxicology, nematology, physiology of parasitism and resistance, plant disease control, phytobacteriology, soil microbiology, virology, genetics and plant breeding of fruit or vegetable crops, physiology and culture of fruit, vegetable or ornamental plants, and physiology and management of turfgrasses.

Prerequisites to Degree Program: In addition to the requirements for admission to the Graduate School, the student must submit to the Chair of Studies a statement of interest, three letters of recommendation, which evaluate the potential of the student to pursue advanced graduate studies, and scores from the Graduate Record Examinations. International students must submit TOEFL scores with their application. Approval by the Plant Science Steering Committee is also necessary for acceptance into the program of study leading to the Doctor of Philosophy degree.

Admissions Requirements for Entry: The requirements for admission to the plant science Ph.D. program include the following: completion of an M.S. degree in a relevant biological science with a cumulative grade-point average of 3.00 or better (of 4.00), submission of scores from the verbal, quantitative, and written Graduate Record Examinations (GRE), three letters of recommendation, and official transcripts from all institutions attended.

Requirements for Doctor of Philosophy Degree: Each candidate must present a doctoral dissertation based on original research. Course requirements are established by the student’s major adviser and the graduate advisory committee. The student must pass a candidacy examination at least two semesters before the expected conferral date of the degree. A final examination on the doctoral dissertation and cognate areas must be passed at least two weeks before the time of expected degree conferral. Students are expected to maintain a cumulative grade-point average of 2.85 or better (3.00 to graduate) as consistent with the policy of the Graduate School.

Students in the Plant Pathology concentration in the Plant Science program are required to complete three graduate credits in horticulture, six graduate credits in an area appropriate to their dissertation research, two credits in the Plant Science Colloquium, PLPA 4223, PLPA 5303, PLPA 5313, and PLPA 5404. In addition, students are expected to complete three of the four following courses: PLPA 5603, PLPA 6203, PLPA 6303 or PLPA 6503. All students in the plant pathology concentration are expected to attend seminars in both departments and are required to present at least four seminars (while enrolled for credit in PLPA 5001 Seminar (Sp, Fa)) to include the following: a research proposal seminar, two topic seminars on subjects other than their research area and an exit seminar describing the results of their dissertation research. Plant pathology will permit enrollment in one semester in CSES 5103 to be used as a substitute for one of the two topic
seminars. All Ph.D. candidates are expected to gain teaching experience by assisting in the teaching of a regularly scheduled plant pathology course for one semester. Students with prior teaching experience can appeal to the Graduate Admissions Committee for a waiver in the Department of Plant Pathology. Additional requirements or waivers from these requirements are available in the Graduate Handbook in Plant Pathology.

Students in the Horticulture Concentration must take at least three graduate course credits in each of the participating departments (horticulture and plant pathology), at least six elective graduate credits outside of the program in an area appropriate to their dissertation research, two semesters (2 credits) in PTSC 6101 Colloquium in Plant Sciences (Sp), one in each department, and students are required to present at least four seminars (while enrolled for credit in HORT 5001 Seminar (Sp, Fa) to include the following: a research proposal seminar, two topic seminars on subjects other than their research area and an exit seminar describing the results of their dissertation research.

All students will be expected to complete 18 hours of dissertation research.

Political Science (PLSC)

Faculty

Patrick J. Conge, Associate Professor
Andrew J. Dowdle, Professor
Pearl Karen Dowe, Associate Professor
John Gaber, Professor
Najib Ghadbian, Associate Professor
Valerie H. Hunt, Associate Professor
Donald R. Kelley, Professor
Brinck Kerr III, Professor
Angie Maxwell, Associate Professor, Diane D. Blair Professor of Southern Studies
D. Xavier Medina Vidal, Assistant Professor, Diane D. Blair Professor of Latino Studies
Joshua Lee Mitchell, Assistant Professor
Janine A. Parry, Professor
Margaret F. Reid, Professor
Jeffrey J. Ryan, Associate Professor
William D. Schreckhise, Associate Professor
Karen Denice Sebold, Clinical Assistant Professor
Todd G. Shields, Professor
Geoboo Song, Assistant Professor
Patrick A. Stewart, Associate Professor
Ka Zeng, Professor

John Gaber
Department Chair
428 Old Main
479-575-3356
E-mail: jgaber@uark.edu

Pearl Dowe
Graduate Coordinator and Vice Chair
428 Old Main
479-575-3356
E-mail: pkford@uark.edu

fulbright.uark.edu/departments/political-science

Degrees Conferred:

M.A. (PLSC)
M.P.A. in Public Administration (PADM)
J.D./M.A. (Dual Degree)
J.D./M.P.A. (Dual Degree)

Graduate Certificates Offered (non-degree):

M.A. Areas of Study: American politics and political theory, comparative politics and international relations, and public administration.

Primary Areas of Faculty Research: American politics, comparative politics, international relations, political theory, public administration.

Political Science (PLSC)
The M.A. degree in Political Science is designed to give students further training in selected areas of concentration within the discipline and to prepare them for careers in academe or public service.

Admission Requirements for the Master of Arts Degree Program:
Applicants for graduate study in political science must be admitted to the Graduate School and also meet the following requirements: 1) satisfactory GRE scores, 2) submission of a written essay, and 3) three letters of recommendation from persons competent to judge the applicant’s potential for graduate studies. Students from all academic backgrounds are encouraged to apply. Students who have had few political science courses at the undergraduate level may be required to enroll in undergraduate courses to begin their graduate studies.

Requirements for the Master of Arts Degree: The M.A. degree is a 36-semester hour program. Completion of the program is contingent upon passing a comprehensive examination or writing and defending a thesis.

Core (21 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 5163</td>
<td>Public Policy (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 5703</td>
<td>Research Design in Political Science and Public Policy (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 5913</td>
<td>Research Methods in Political Science (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 5943</td>
<td>Advanced Research Methods in Political Science (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

Take three of the following (9 hours):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 5203</td>
<td>Seminar in American Political Institutions (Fa)</td>
</tr>
<tr>
<td>PLSC 5213</td>
<td>Seminar in American Political Behavior (Sp)</td>
</tr>
<tr>
<td>PLSC 5503</td>
<td>Comparative Political Analysis (Fa)</td>
</tr>
<tr>
<td>PLSC 5803</td>
<td>Seminar in International Politics (Fa)</td>
</tr>
</tbody>
</table>

Courses are offered in three areas of study: American politics, comparative politics and international relations, and public administration and policy. From these offerings, students must select a primary area of study. A minimum of 12 hours from the primary area of study must be completed, of which six hours will be accepted from the core. A secondary field of no less than six hours will complement the choices in the primary field, of which three hours will be accepted from the core. Selection of the areas of concentration should be commensurate with the professional or career goals of the student. A minimum of 27 hours must be fulfilled by 5000-level classes. Students must take a minimum of 30 of their 36 course hours in the Department of Political Science. The remaining hours may be taken in other departments.
Courses at the 4000 level may be taken with the graduate adviser's consent. Under special circumstances, students may arrange to take graduate-level directed readings or independent research courses. Such courses require an application that must be approved by the student's graduate adviser in concert with the professor from whom the course is to be taken. The student must apply for such a course before the semester in which the course is to be taken.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

**Thesis Option:** Students must take 30 hours of coursework and six hours of thesis credit. Under this option, the student's comprehensive examination will be a defense of the thesis. All M.A. candidates in this option are required to develop a prospectus for their thesis. They must then write and orally defend an acceptable thesis.

**Non-thesis Option:** Students must take 36 semester hours of coursework. Under this option, students must take a comprehensive examination in their primary field of study.

**J.D./M.A. Program**

**Degrees Conferred:**

J.D./M.A. (Dual Degree)

[fulbright.uark.edu/departments/political-science/graduate-studies/jdham-dual-degree-program/index.php](fulbright.uark.edu/departments/political-science/graduate-studies/jdham-dual-degree-program/index.php)

The Department of Political Science, the Graduate School, and the School of Law cooperate in offering a dual degree program that allows a student to pursue the M.A. in Political Science and the J.D. degrees concurrently.

The program described below requires 36 hours as follows: the student selects a) courses from comparative politics or international relations seminars in political science or equivalent courses in other departments approved by the graduate adviser in political science (total of 18 hours: 3 hours methods and 15 hours from a combination of international relations and comparative politics seminars); b) six additional hours of PLSC classes approved by the program's graduate director or six hours of thesis credit; and c) twelve hours of elective courses taken in the law school in an area of concentration approved by the director of the M.A. program.

Students must be admitted to the M.A. program and the School of Law. If a student seeks to enter the dual degree program after enrolling in either the law school or the M.A. program, he or she must obtain admission to the other degree program during the first year of study.

The School of Law accepts nine (9) semester hours of M.A. courses to satisfy requirements for the J.D. degree: PLSC 5503 Comparative Political Analysis (Fa), PLSC 5803 Seminar in International Politics (Fa), PLSC 5833 Seminar in Contemporary Problems (Fa), PLSC 4833 International Political Economy (Fa); and ECON 4633 International Trade (Sp, Fa) are highly recommended to be part of the student's preparation.

Students admitted to the dual degree program may commence their studies in either the law school or the M.A. program but must complete first year course requirements before taking courses in the other degree program. If they do not maintain the academic or ethical standards of either degree program, students may be terminated from the dual degree program. Students in good standing in one degree program but not in the other may be allowed to continue in the other program in which they have good standing and must meet the degree requirements of that program. If for any reason a student admitted to the dual degree program does not complete the M.A. degree, he or she cannot count nine hours of M.A. courses toward the J.D. degree. Likewise, M.A. students may not be able to count certain law courses if they decide to discontinue their studies in the law school. The J.D. will be awarded upon completion of all degree requirements; the M.A. will be awarded upon completion of the comprehensive examination and all required coursework, as well as the successful defense of a master's thesis, if applicable.

**Mandatory Comprehensive Exam:** All students will be required to take a written comprehensive examination covering their M.A. program or a six-hour thesis. The comprehensive exam will be graded by at least a three-person faculty committee selected by the M.A. Program Director. Students pursuing the thesis option are not required to take a written examination. Successful defense of their thesis satisfies this requirement. In addition to the successful completion of all course requirements and a passing grade on the written comprehensive examination (if taken), each student must present a minimum cumulative grade-point average of 3.00.

**Thesis Option:** Students pursuing the thesis option should consult the graduate coordinator of the political science department. The thesis committee must be composed of faculty members from both the School of Law and the Department of Political Science. Thesis credit is 6 hours.

**Internship Option:** Students may pursue an internship. Internship credit is variable and depends on the number of hours worked. Students in this option must consult with their J.D. and M.A. advisers. An internship work plan and expected academic work products will be developed.

**Poultry Science (POSC)**

**Faculty**

Nick Anthony, Professor  
Walter G. Bottje, Professor  
Keith Bramwell, Extension Associate Professor  
H. David Chapman, University Professor  
Karen Christensen, Associate Professor  
Fred D. Clark, Extension Professor  
Craig N. Coon, Professor  
Annie Donoghue, Research Professor  
Dan Donoghue, Professor  
Sami Dridi, Associate Professor  
Gisela F. Erf, Professor, Avian Immunology Professorship  
Casey Owens Hanning, Associate Professor  
Billy M. Hargis, Professor, Sustainable Poultry Health Chair  
Michael T. Kidd, Professor  
Byung-Whi Kong, Associate Professor  
Wayne J. Kuenzel, Professor  
Young Min Kwon, Associate Professor  
Yanbin Li, Distinguished Professor, Tyson Endowed Chair in Biosensing Engineering  
John R. Marcy, Extension Professor  
Douglas Duane Rhoads, Adjunct University Professor  
Guillermo Tellez-Isaias, Visiting Professor  
Susan E. Watkins, Extension Professor  
Robert F. Wideman Jr., Professor  
Tom Yazwinski, Adjunct University Professor

Michael Kidd  
Department Head and Center Director  
0-114 Poultry Center  
479-575-4952

Mike Slavik
Degrees Conferred:
M.S., Ph.D. (POSC)

Primary Areas of Faculty Research: Avian parasitology, avian physiology, avian virology, food safety/microbiology, immunology, molecular biology, poultry breeding and genetics, poultry economics, poultry enterprise operations, poultry health, poultry meat quality, poultry nutrition, poultry product technology, and turkey and egg product/management.

Areas of Study: Graduate studies may be pursued in those areas of primary faculty research. Poultry and laboratory animals are available for research programs in the Poultry Science Department.

Prerequisites to Degree Program: The student pursuing a program for a Master of Science degree must meet all general requirements of the Graduate School. In addition, the student must have completed the B.S. degree in a college or university with a major or equivalent in one of the areas of the poultry science department. All applicants must submit at least three letters of recommendation and scores on the Graduate Record Examinations.

For acceptance into the Ph.D. degree program, a grade-point average of 3.00 on all previous graduate work and scores on the Graduate Record Examinations must be presented. Requirements for the Doctor of Philosophy Degree:

Requirements for the Master of Science Degree: For the M.S. degree, at least 24 hours of course work and six hours of thesis must be completed. No more than 12 hours or three courses at the 4000 level may be used for credit. A maximum of four hours of 5000 Special Problems may be used for M.S. degree requirements. At least three courses should be taken in the Poultry Science Department. At least one seminar is required for all M.S. degree candidates. A minimum GPA of 3.0 is required for the M.S. degree. All M.S. candidates must complete a thesis based on their research and pass a final comprehensive exam with emphasis on thesis research. One manuscript suitable for publication in a refereed journal is required for each M.S. candidate to graduate.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Requirements for the Doctor of Philosophy Degree: Ph.D. candidates bypassing the M.S. degree must take at least 36 hours of course work approved by the student's advisory committee with at least 24 hours of 5000 and 6000 level course work excluding Special Problems. No more than 12 hours or three courses at the 4000 level may be used for credit. A maximum of four hours of 5000 Special Problems can be used for the Ph.D. degree requirements. Students in the Ph.D program who have an M.S. degree must take at least 12 hours of 5000 and 6000 level course work excluding Special Problems. If not taken previously, a three hour statistics course is required for graduation for all Ph.D. candidates. A minimum of two seminars is required of all Ph.D. candidates. All Ph.D. degree candidates must take 18 hours of dissertation research. Admission to candidacy requires the candidate to take a comprehensive written exam as determined by members of the student’s Graduate Advisory Committee and a preliminary oral exam given by the Graduate Advisory Committee. Any student who fails the admission to candidacy exams will not be permitted to reschedule the exams for a six-month period. A second failure will lead to termination from the program. A final oral examination will be taken that is a defense of the dissertation. A minimum GPA of 3.0 is required for the Ph.D. degree. Two manuscripts suitable for publication in a refereed journal are required for each Ph.D. student to graduate. These papers will be evaluated by the Graduate Advisory Committee for comments and approval.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Preparing for the Professoriate (PROF)

William F. McComas
Chair of Studies
310 Peabody Hall
479-575-7525
E-mail: mccomas@uark.edu

Graduate Certificate Offered (non-degree):
Preparing for the Professoriate (PROF)

The Graduate Certificate in Preparing for the Professoriate is an interdisciplinary program designed to help prepare graduate students for teaching, research and service responsibilities in higher education environments. The program is administered by an advisory committee appointed by the dean of the Graduate School and chaired by the associate dean of the Graduate School as an ex officio member.

Prerequisites to the Certificate Program: Students must be admissible to the Graduate School. Those students who will benefit most from the program will be in doctoral programs with career plans that include or may include service as a professor in a four-year college environment.

Requirements for the Graduate Certificate in Preparing for the Professoriate: (12 hours)

To earn the graduate certificate students must successfully complete the two core courses, GRSD 5003 and GRSD 5033 and, in consultation with the Chair of Studies, select and successfully complete two elective courses that augment or extend any of the topics covered in the core courses.

- GRSD 5003 The Professoriate: Teaching, Learning and Assessment (Sp)
- GRSD 5033 The Professoriate: Research and Service (Fa)

Psychological Science (PSYC)

Faculty
Douglas A. Behrend, Professor
Denise R. Beike, Professor
Ana Julia Bridges, Associate Professor
Timothy A. Cavell, Professor
Christopher Ditzfeld, Instructor
Scott H. Eidelman, Associate Professor
Matthew T. Feldner, Professor
Joel S. Freund, Associate Professor
Lindsay S. Ham-Holm, Associate Professor
James Michael Lampinen, Distinguished Professor
Ellen Winifred Leen-Feldner, Associate Professor
William H. Levine, Associate Professor  
Elizabeth Hellmuth Margulis, Professor  
Nathan A. Parks, Assistant Professor  
Patricia Ann Louise Petretic, Associate Professor  
David A. Schroeder, Professor  
Jennifer Celene Veilleux, Assistant Professor  
Brenda June Zies, Visiting Assistant Professor  

Doug Behrend  
Department Chair  
216 Memorial Hall  
479-575-4256  

James Lampinen  
Associate Chair  
216 Memorial Hall  
479-575-4256  

E-mail for Clinical Psychology program: ctcgrad@uark.edu  
E-mail for Experimental Psychology program: etcgrad@uark.edu  
psyc.uark.edu  

Degrees Conferred:  
M.A., Ph.D. (PSYC) (Note: The Department does not offer a terminal master’s degree.)  

Areas of Study: The degree of Doctor of Philosophy is offered in the fields of experimental psychology and clinical psychology. The program is designed to produce experimental and clinical psychologists with broad knowledge of the field. Specialization for research is required during the student’s last two years of study.  

Primary Areas of Faculty Research: The Ph.D. program in Clinical Psychology follows the scientist/practitioner model of training. Although some of our graduates obtain applied, direct service provision positions, our training curriculum is such that those students whose career aspirations have been directed toward academic and research positions also have been successful. The Clinical Training Program is based on the premise that clinical psychologists should be skilled practitioners and mental health service providers as well as competent researchers. To facilitate these goals, we strive to maximize the match between the clinical and research interests of the faculty with those of the graduate students. The academic courses and clinical experiences are designed to promote the development in both areas. The objective of the Clinical Training Program is to graduate clinical psychologists capable of applying psychological theory, research methodology, and clinical skills to complex clinical problems and diverse populations. The program is fully accredited by the American Psychological Association.  

The primary concentration of the Experimental Training Program is our Social and Cognitive Processes focus area, with emphases in the traditional subareas of social, cognitive, and developmental psychology. The faculty and students in the focus area typically have their primary research programs within one of these major subareas, although ad hoc research teams may also investigate questions at the intersections of these areas. In addition to Social and Cognitive Processes, other individual faculty members provide training to students interested in Developmental Psychopathology, Neuroscience, and Cognitive Aging. Students in the Experimental Training Program are trained to have excellent statistical and writing skills, to become competent and autonomous researchers, and to contribute to the field of psychology through presentations at professional conferences and publications in scholarly journals. Opportunities for extensive supervised teaching experience are also available to our students. Graduates of the Experimental Training Program typically obtain teaching and academic positions after graduation, while others take jobs in the private sector.  

Prerequisites to Degree Program: The candidate for admission to graduate study in psychology must satisfy the requirements of the Graduate School and have the approval of the Admission Committee of the appropriate training program. Scores on the Graduate Record Examination General Tests must be submitted with the application. The student normally will be expected to have had at least 18 semester hours in psychology, including statistics and research methods, or their equivalents.  

The program of study is designed primarily for the student who seeks the Ph.D. degree. Students interested in pursuing a terminal master’s degree should not apply for admission. However, all Ph.D. candidates must complete requirements for the M.A. degree.  

Requirements for the Master of Arts Degree:  

Clinical – minimum 30 hours. A student who seeks only the Master of Arts degree will be advised on selection of courses that will meet specific objectives. The student must complete 24 semester hours of course work and submit a research thesis. The thesis should be finished no later than the end of the second year of study.  

Experimental – minimum 30 hours. A student who seeks only the Master of Arts degree must complete 24 hours of courses, including the following required courses:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 4123</td>
<td>Perception (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 5013</td>
<td>Advanced Developmental Psychology (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 5063</td>
<td>Advanced Social Psychology (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 5113</td>
<td>Theories of Learning (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 5123</td>
<td>Cognitive Psychology (Even years, Sp)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 5143</td>
<td>Advanced Descriptive Statistics for Psychology (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 523V</td>
<td>Research Practicum (Sp, Fa)</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 6133</td>
<td>Advanced Behavioral Neuroscience (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition, the student must submit a research thesis.  

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).  

Requirements for the Doctor of Philosophy Degree:  

1. Students in the experimental psychology program must fulfill all the requirements for the Master of Arts degree and take four 6000-level experimental psychology seminars.  
2. The clinical student must take the following required courses:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 5013</td>
<td>Advanced Developmental Psychology (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 5033</td>
<td>Psychopathology Theory &amp; Assessment (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 5043</td>
<td>Assessment of Intellectual and Cognitive Abilities (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 5063</td>
<td>Advanced Social Psychology (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 5313</td>
<td>Introduction to Clinical Science: Research Design and Ethical Guidelines (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 5073</td>
<td>Introduction to Clinical Practice: Core Skills and Ethical Guidelines (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 5113</td>
<td>Theories of Learning (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>
Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Public Administration and Nonprofit Studies (PADM)

Faculty

Patrick J. Conge
Andrew J. Dowdle
Pearl Karen Dowe
John Gaber, Professor
Najib Ghadbian
Valerie H. Hunt
Donald R. Kelley
Brinck Kerr III, Professor
Angie Maxwell, Diane D. Blair Professor of Southern Studies
D. Xavier Medina Vidal, Diane D. Blair Professor of Latino Studies
Joshua Lee Mitchell, Assistant Professor
Janine A. Parry
Margaret F. Reid, Professor
Jeffrey J. Ryan
William D. Schreckhise, Associate Professor
Karen Denice Sebold
Todd G. Shields
Geoboo Song, Assistant Professor
Patrick A. Stewart, Associate Professor
Ka Zeng

John Gaber
Department Chair
428 Old Main
479-575-3356
Email: jgaber@uark.edu

Pearl K. Dowe

Graduate Coordinator and Vice Chair
428 Old Main
479-575-3356
Email: pkford@uark.edu

The Master of Public Administration program is administered by the Department of Political Science. The major objectives of the program are as follows:

1. To provide a broad flexible program to prepare students for careers in public service and nonprofit management;
2. To afford opportunities to practicing administrators for improving their careers and services through advanced education and training; and
3. To prepare scholars for further graduate study in the field of public administration.

Prerequisites for Admission to the M.P.A. Degree Program:

1. Admission to the Graduate School
2. Minimum scores of 155 on the verbal portion and 145 on the quantitative portions of the current Graduate Record Examinations (GRE). (GRE scores may be waived under certain circumstances at the discretion of the PLSC Admissions Committee. Examples of possible exceptions include the successful completion of a master's degree or the submission of GMAT or LSAT scores in lieu of GRE scores).
3. 3.20 minimum grade-point average in the last 60 hours of undergraduate coursework.
4. A written essay, submitted in accordance with standards set by the PLSC Admissions Committee.
5. Three letters of recommendation from persons competent to judge the applicant's academic/work experience.
6. Academic prerequisites: the PLSC Admissions Committee may require appropriate coursework related to an understanding of governmental processes and activities to cover deficiencies in past education.
7. All requirements listed above must be completed and reported before the beginning of the student’s second semester or the student will not be admitted to courses that semester.

Requirements for the Master of Public Administration Degree: The M.P.A. requires a total of 42 semester hours of which 27 hours are to be 5000-level courses or above.

Required Courses (18 hours):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 5113</td>
<td>Seminar in Human Resource Management (Fa)</td>
<td>Fa</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 5163</td>
<td>Public Policy (Sp)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PLSC 5193</td>
<td>Seminar in Public Administration (Fa)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PADM 5803</td>
<td>Quantitative Methods Analysis (Fa)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PADM 5813</td>
<td>Methods in Public Management Information (Sp)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PADM 5913</td>
<td>Policy Analysis: Theory and Practice (Fa)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following (3 hours):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 5103</td>
<td>Human Behavior in Complex Organizations (Fa)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PLSC 5123</td>
<td>Public Budgeting and Finance (Fa)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Select two courses from the following (6 hours):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 4283</td>
<td>Federalism and Intergovernmental Relations (Even years, Sp)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Survey Courses (6 hours):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 5133</td>
<td>Inferential Statistics for Psychology (Fa)</td>
<td>Fa</td>
<td>3</td>
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<tr>
<td>PSYC 5143</td>
<td>Advanced Descriptive Statistics for Psychology (Sp)</td>
<td></td>
<td>3</td>
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<tr>
<td>PSYC 5153</td>
<td>Advanced History and Systems of Psychology (Fa)</td>
<td></td>
<td>3</td>
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<tr>
<td>PSYC 5163</td>
<td>Personality: Theory &amp; Assessment (Sp)</td>
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<tr>
<td>PSYC 6133</td>
<td>Advanced Behavioral Neuroscience (Fa)</td>
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<tr>
<td>PSYC 6163</td>
<td>Psychotherapy (Fa)</td>
<td></td>
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<tr>
<td>PSYC 6213</td>
<td>Psychotherapy Outcomes (Sp)</td>
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<td>3</td>
</tr>
</tbody>
</table>
J.D./M.P.A. Program

Degrees Conferred:
J.D./M.P.A. (Dual Degree)

Special Interest Areas: Fifteen graduate semester hours, depending on exercise of the internship, may be chosen in PLSC/PADM and other disciplines with approval of the M.P.A. Program Director. The M.P.A Program Director, in consultation with the student, will develop a set of relevant graduate courses that will help the student in meeting career objectives. Concentrations may be developed for students interested in fields such as community development, environmental policy and sustainability, health services administration, higher education administration, non-profit management, public policy analysis, and recreation and tourism. Other concentrations may be exercised with the consent, advice and approval of the M.P.A. Program Director. Students who elect to take only nine hours of course work may satisfy the remainder of the required degree hours with optional thesis or professional development/internship credit (please see below).

Mandatory Comprehensive Examination: All students will be required to take a written comprehensive examination covering their M.P.A. program or complete a six-hour thesis. The comprehensive exam will be graded by at least a three-person faculty committee selected by the M.P.A. Program Director. Students pursuing the thesis option are not required to take a written examination. Rather, successful defense of their thesis satisfies this requirement. In addition to the successful completion of all course requirements and a passing grade on the written comprehensive examination (if taken), each student must present a minimum cumulative grade-point average of 3.00.

Thesis Option: Students wishing to exercise the thesis option should consult with the graduate coordinator of the Department of Political Science. The thesis committee must be composed of at least three faculty members. The chair and another faculty member must be Political Science faculty. Thesis credit is six hours.

Professional Development/Internship: (1-6 semester hours). The professional development/internship is recommended but not required. It will be offered on a credit/non-credit basis only. The number of semester hour credits depends on the length and full/part-time nature of the internship.

J.D./M.P.A. Program

PLSC 5103 Human Behavior in Complex Organizations (Fa) ((may be used for either this requirement or to satisfy the 21 hour core requirement))
PLSC 5123 Public Budgeting and Finance (Fa) ((may be used for either this requirement or to satisfy the 21 hour core requirement))
PLSC 5133 Nonprofit Management (Irregular)
PLSC 5143 Administrative Law (Sp)
PLSC 5153 Environmental Politics and Policy (Even years, Fa)
PLSC 5173 Community Development (Irregular)
PLSC 5243 Seminar in State Politics and Policy (Even Years, Fa)
PLSC 5983 Mixed Methods Research Design (Sp)
PADM 5823 Grant Writing for the Social Sciences (Irregular)
PADM 584V Special Topics in Public Administration (Irregular)
PADM 5903 Risk and Public Policy (Sp)

University of Arkansas

fulbright.uark.edu/departments/political-science/graduate-studies/jdmpa-dual-degree-program/index.php

The Department of Political Science, the Graduate School, and the School of Law cooperate in offering a dual degree program that allows a student to pursue the M.P.A. and the J.D. degrees concurrently. Students must be admitted to the M.P.A. program and the School of Law. If a student seeks to enter the dual degree program after enrolling in either the law school or the M.P.A. program, he/she must obtain admission to the other degree program during the first year of study.

The School of Law accepts nine semester hours of M.P.A. courses to satisfy requirements for the J.D. degree. Fifteen hours of law school courses may be counted toward the M.P.A. degree. To qualify for J.D. credit, the M.P.A. courses must come from a set of core courses and must be approved by the law school. Students must earn a grade of “B” or higher in any M.P.A courses offered for credit toward the J.D. For purposes of the M.P.A. degree, fifteen hours of elective courses may be taken in the law school, provided they are not required for the J.D. degree and are in an area of concentration approved by the director of the M.P.A. program.

Students admitted to the dual degree program may commence their studies in either the law school or the M.P.A. program but must complete first year course requirements before taking courses in the other degree program. If they do not maintain the academic or ethical standards of either degree program, students can be terminated from the dual degree program. Students in good standing in one degree program but not in the other may be allowed to continue in the other program in which they have good standing and must meet the degree requirements of that program. If for any reason a student admitted to the dual degree program does not complete the M.P.A. degree, he/she cannot count nine hours of M.P.A. courses toward the J.D. degree. Likewise, M.P.A. students may not be able to count certain law courses if they decide to discontinue their studies in the law school. The J.D. will be awarded upon completion of all degree requirements; the M.P.A. will be awarded upon completion of the comprehensive examination and the internship (and internship report), or alternatively, six hours of additional coursework.

Mandatory Comprehensive Exam: All students will be required to take a written comprehensive examination covering their M.P.A. program. This exam will be graded by at least a three-person faculty committee selected by the M.P.A. Program Director. Students pursuing the thesis option are not required to take a written examination. Rather, successful defense of their thesis satisfies this requirement. In addition to the successful completion of all course requirements and a passing grade on the written comprehensive examination, each student must present a minimum cumulative grade-point average of 3.00. Students enrolled in law classes that are counted towards their M.P.A. degree cannot make a grade lower than a “C.” However, these courses will not be counted against the Graduate School GPA.

Thesis Option: Students pursuing the thesis option should consult with the graduate coordinator of the Political Science Department. The thesis committee must be composed of faculty members from both the School of Law and the Department of Political Science. Thesis credit is six hours.

Internships: Students may pursue an internship. Internship credit is variable and depends on the number of hours worked. Students wanting internship credit must consult with the M.P.A. adviser who will develop an internship work plan and explain expected academic work products.
Public Policy (PUBP)

Brinck Kerr
Director
428 Old Main
479-575-3356
E-mail: jbkerr@uark.edu (policy@uark.edu)

Valerie Hunt
Associate Director
213 Gearhart Hall
479-575-4401
E-mail: vhunt@uark.edu (vhunt@uark.edu)

For full faculty list, see website: http://policy.uark.edu/

Degree Conferred:
Ph.D. (PUBP)

This interdisciplinary policy program has a strong emphasis on public affairs and will train policy leaders to directly address the policy issues of the people of Arkansas, the region, and the nation. The program provides a vehicle for the consideration of policy issues by students, faculty, and the larger community. Therefore, students and faculty will participate in colloquia, projects, and research that contribute to successful public policy. Leadership and administrative skills are included in the course of study, along with a strong emphasis on policy analysis that recognizes the complex nature of policy problems. Such an analytical approach will prepare students for work with governmental, educational, professional, and private sector experts who must cooperate in shaping public policy.

Primary Areas of Faculty Research: See areas of concentration.

Areas of Specialization: Agricultural Policy, Community Development and Recreation Policy, Education Policy, Family Policy, Health Policy, Policy Studies in Aging, Public Policy Management. (Other areas of concentration are possible. Contact us for more information.)

Prerequisites to Degree Program: Applicants must have a master’s degree completed prior to beginning the doctoral program. The master’s degree should be relevant to the policy area of their specialization. For example, students with a master’s in geology might enter the agriculture policy specialization but not the family policy specialization. If students enroll in classes designated to address deficiencies, they may enter a specialization outside of their master’s area. These decisions will be made by the program faculty. An application should include identification of the applicant’s objectives and supportive background information including three letters of recommendation evaluating the applicant’s ability to successfully pursue a Ph.D. A GPA of at least a 3.20 on a 4-point scale for all graduate course work is required. Scores from the verbal and quantitative portions of the Graduate Record Examination (GRE) must be submitted. GRE scores may not be more than five years old. Admission is competitive and based on the specialization and availability of an appropriate faculty mentor. Two students with identical packets may receive different decisions.

Requirements for the Doctor of Philosophy Degree: In addition to the general requirements of the Graduate School, the doctoral program consists of a minimum of 65 hours including:

Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBP 601</td>
<td>Pro-Seminar (Fa)</td>
<td>1</td>
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<tr>
<td>PUBP 613</td>
<td>Theories of Public Policy (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PUBP 6203</td>
<td>Law and Public Policy (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PUBP 6103</td>
<td>Policy Planning, Implementation, and Evaluation (Irregular)</td>
<td>3</td>
</tr>
<tr>
<td>PUBP 6113</td>
<td>Agenda Setting and Policy Formulation (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>PUBP 6134</td>
<td>Capstone Seminar in Public Policy (Sp, Fa)</td>
<td>4</td>
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Methods

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<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ESRM 6533</td>
<td>Qualitative Research (Sp, Fa) (or equivalent course)</td>
<td>3</td>
</tr>
<tr>
<td>Qualitative Methods (3 hours selected from approved courses)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Advanced Research Methods (6 hours selected from approved courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Electives in area of concentration, 12 hours: See program director for concentration requirements.</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

PUBP 700V  Doctoral Dissertation (Sp, Su, Fa)  18

Total Hours  65

After completing approximately two years of graduate study, and at least one year before completing all other requirements, the prospective candidate must take candidacy examinations covering core and specialization studies as well as research methods. The examinations will be both written and oral. After having been admitted to candidacy, students will be required to successfully defend a dissertation proposal in front of their dissertation committee. All students must demonstrate a capacity for research by writing an original dissertation on a topic in their area of concentration. The student’s final examination will be an oral defense of the dissertation.

Students should also be aware that the program in public policy has a residency policy. Students shall have met the residency requirement in the public policy Ph.D. program if they make satisfactory progress including positive residency evaluations in their annual review.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Recreation and Sport Management (RESM)

The Recreation and Sport Management program prepares students with the necessary competencies to pursue career opportunities primarily in intercollegiate athletic administration, but also more generally in public recreation administration, commercial recreation, sport management, community recreation, and outdoor recreation either in private or public sectors, including university settings. A minimum of 36 credit hours is required for the M.Ed. degree and 96 hours are required for the Ed.D. degree, including master’s work.

Prerequisites to Degree Program: For acceptance to the master’s degree programs, the program area requires, in addition to the general requirements for admission to the Graduate School, an undergraduate degree in recreation or a related field and the following admission requirements: an overall undergraduate GPA of 3.00 or if the overall undergraduate GPA is between 2.70 and 2.99, the student must have a 3.00 GPA on the last 60 hours of undergraduate courses (excluding student teaching), or a minimum GRE score of 1000 on the verbal and quantitative parts of the general test (or the equivalent on the new GRE exam).
Requirements for the Master of Education Degree: Candidates for a Master of Education degree in Recreation and Sport Management must complete 30 semester hours of graduate course work and a thesis or 36 semester hours without a thesis. In addition to the program requirements listed below, all candidates must successfully complete a written comprehensive examination.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Recreation and Sport Management: (36 hours)

Required Research Component

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESRM 5393</td>
<td>Statistics in Education and Health Professions (Sp, Su, Fa)</td>
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</tr>
<tr>
<td>HHPR 5353</td>
<td>Research in Health, Human Performance and Recreation (Sp, Su, Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESM 5813</td>
<td>Social Issues in Sport (Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>RESM 5873</td>
<td>Leadership in Recreation and Sport Management Services (Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>RESM 5883</td>
<td>Recreation and Sport Services Promotion (Su)</td>
<td>3</td>
</tr>
<tr>
<td>RESM 5893</td>
<td>Public and Private Finance in Recreation and Sport Management (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>RESM 6533</td>
<td>Legal and Political Aspects (Sp)</td>
<td>3</td>
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Approved Electives

9

Capstone Requirement

6

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>RESM 574V</td>
<td>Internship (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>RESM 605V</td>
<td>Independent Study (Sp, Su, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>RESM 5853</td>
<td>Strategic Organizational Design in Recreation and Sport Management (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>RESM 600V</td>
<td>Master's Thesis (Sp, Su, Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 36

Area of Study: The program prepares qualified students for professional competence and service in the area of recreation and sport management.

Prerequisites for Acceptance to the Ed.D. Degree Program: The applicant must have completed a master's degree or its equivalent in recreation or a closely-related field and meet general admission requirements of the Graduate School. An application should include identification of the applicant's objectives, supportive background information including three letters of recommendation supporting the applicant's ability to successfully pursue an Ed.D. in Recreation and Sport Management, a GPA of at least 3.00 on all graduate course work, and an acceptable score on the Graduate Record Examinations (GRE). Additional prerequisites may be prescribed after review of application materials. Furthermore, applicants who present a GRE score of 1200 or greater on the combined verbal/quantitative portions, a GRE writing score of 5.5, or greater, an overall GPA of at least 3.85 and faculty approval may apply for admission to the Ed.D. Recreation program after completion of their bachelor's degree.

Requirements for the Doctor of Education Degree: This program is designed for those wishing to prepare for college, university, or community college positions in recreation and sport management. The program must include the general degree requirements of the College of Education and Health Professions in addition to courses selected with the approval of the candidate's advisory committee.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Rehabilitation (RHAB)

Faculty

Lynn C. Koch, Professor
Stephanie Lisanne Lusk, Assistant Professor
Brent Thomas Williams, Associate Professor

Brent Thomas Williams
Program Coordinator
154 Graduate Education Building
479-575-8696
Email: bwill@uark.edu

In addition to the general program in vocational rehabilitation counseling, two specialty emphasis tracks are offered: rehabilitation job development and job placement; and independent living.

Prerequisites to the Degree Program: For acceptance into the master’s degree program in rehabilitation, the program stipulates, in addition to the general requirements of the Graduate School, an undergraduate degree in a social or behavioral science, or other related fields.

Requirements for the Master of Science Degree in Rehabilitation: Candidates for the general master’s degree and both tracks must complete 48 semester hours. Students select the practicum, internships, and electives with the permission of their adviser, according to their specialty emphasis track. A thesis may be included within any of the tracks. Students may complete an additional 12 hours of course work to qualify for counseling licensure.

The general program in vocational rehabilitation (48 hours) stresses the skills of case management and vocational counseling with people who are disabled. The rehabilitation job development and job placement track emphasizes case management and life planning for people with disabilities who may not be ready for vocational planning. All students in the vocational rehabilitation program complete a practicum and internship in a vocational rehabilitation complete a practicum and internship in an independent living center, or community service provider that specializes in independent living. The Rehabilitation Education and Research Program does not conduct comprehensive examinations. In lieu of comprehensive exams, students are required to take and pass the Certified Rehabilitation Counselor examination (CRC) from the Commission on Rehabilitation Counselor Certification (CRCC). Students must arrange for the documentation of the exam scores to be sent to the department. Failure to pass the examination will result in the student having to repeat the examination and therefore delay graduation by at least one semester.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Prerequisites to the Doctor of Philosophy Degree Program: The applicant must have completed a master's degree or its equivalent in rehabilitation counseling or a closely related discipline and must meet the general admission requirements of the Graduate School. Applicants are encouraged to have had three years of successful experience related to the applicant's degree and career objectives. After gaining admission to the Graduate School, the applicant must be accepted by the Rehabilitation Education faculty. The review process consists of an interview and evaluation of the applicant’s personal, social, and academic attributes, and includes three letters of reference. A prospective candidate
must present a graduate GPA of 3.50 or better and a score of at least 500 on the Verbal and Analytic subsets and a score of at least 5 on the Writing Sample of the Graduate Record Examinations (GRE). Additional prerequisites may be prescribed after review of the applicant's materials.

Requirements for the Doctor of Philosophy Degree: A minimum of 60 semester hours, including 18 hours of dissertation, must be taken from the University of Arkansas after admission into the Ph.D. program. A doctoral advisory committee will be established by the student, in consultation with the program chair, during the first semester of enrollment. The nature of the student's program will vary depending on the student's career objectives. The degree program also requires successful completion of candidacy examinations, an acceptable doctoral dissertation, and oral defense of the dissertation. These last requirements are described elsewhere in this catalog.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

Curriculum Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>RHAB 6213</td>
<td>Advanced Psychosocial Aspects of Disability (Odd years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>RHAB 6233</td>
<td>Employment Practices and Interventions (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>RHAB 6243</td>
<td>Advanced Rehabilitation Research (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>RHAB 699V</td>
<td>Seminar (Sp, Su, Fa)</td>
<td>1-18</td>
</tr>
</tbody>
</table>

A minimum of 15 hours approved by the doctoral advisory committee.

Field of Study

The student, in consultation with the doctoral advisory committee, will identify further course work comprising a field of study in rehabilitation.

Rehabilitation, Human Resources and Communication Disorders (RHRC)

Faculty

Larry W. Aslin, Instructor
Jules K. Beck, Clinical Assistant Professor
Bobbie T. Biggs, Professor
Andrew L. Bowers, Assistant Professor
Lisa Marie Bowers, Assistant Professor
David Christian, Assistant Professor
Aletha Cook, Clinical Instructor
Vicki Dieffenderfer, Clinical Assistant Professor
Roy Carl Farley, Professor
Kimberly Frances Frazier, Associate Professor
G. David Gearhart, Professor
Margie Gilbertson, Instructor
Rachel E. Glade, Clinical Instructor
Kenda Shea Grover, Assistant Professor
Fran W. Hagstrom, Associate Professor
James O. Hammons, Professor
Michael Stephen Hevel, Assistant Professor
Kristin Kay Higgins, Associate Professor
Karen Lee Hodges, Adjunct Assistant Professor
Claretha Hughes, Associate Professor
Kit Kacirek, Associate Professor
Lynn C. Koch, Professor
Xinya Liang, Assistant Professor

Wen-Juo Lo, Associate Professor
Stephanie Lisanne Lusk, Assistant Professor
Ketevan Mamiseishvili, Associate Professor
Suzanne McCray, Associate Professor
Sean W. Mulvenon, Professor
Kim Perry, Instructor
Kevin Roessler, Assistant Professor
Carsten M. Schmidtko, Assistant Professor
Leslie Jo Shelton, Clinical Assistant Professor
Charles E. Stegman, Professor
Mary Ann Toner, Associate Professor
Ronna L. Turner, Associate Professor
Barton A. Toner, Adjunct Assistant Professor
Brent Thomas Williams, Associate Professor

Kate Mamiseishvili
Department Head
100 Graduate Education Building
479-575-4758
E-mail: kmamisei@uark.edu (kmamisei@uark.edu)
http://rhrc.uark.edu/

Degrees Conferred:

M.Ed., Ed.D. in Adult and Lifelong Learning (p. 52) (ADLL)
M.Ed., Ed.D. in Higher Education (p. 119) (HIED)
M.S. in Communication Disorders (p. 81) (CDIS)
M.S., Ph.D. in Counselor Education (p. 87) (CNED)
M.S., Ph.D. in Rehabilitation (p. 163) (RHAB)
Ph.D. in Educational Statistics and Research Methods (p. 99) (ESRM)

Certificates Offered (non-degree)

Educational Measurement (p. 99) (EDMEMC)
Educational Program Evaluation (p. 99) (EDEVMC)
Educational Psychology (p. 99) (EDPSMC)
Educational Statistics and Research Methods (p. 99) (EDSTMC)

Primary Areas of Faculty Research: Faculty in the Department of Rehabilitation, Human Resources and Communication Disorders are engaged in research activities specific to their program areas. These range from bullying behaviors in elementary school and community college leadership to swallowing disorders and human resource management. Contact individual faculty members or visit the departmental website (http://rhrc.uark.edu) for more information about research in the department.

Rural Sociology (RSOC)

See also Sociology (p. 169) for specialization in Rural Sociology, M.A. program.

Secondary Education (SEED)

Freddie A. Bowles
Program Director
312 Peabody Hall
479-575-4283
E-mail: fbowles@uark.edu (wavering@uark.edu)
http://cied.uark.edu/5223.htm
Degrees Conferred:
M.A.T. in Secondary Education (SEED)
M.Ed. in Secondary Education (SEED)

See Curriculum and Instruction (http://catalogofstudies.uark.edu/4076.php) for full departmental faculty listing.

Secondary Education, M.A.T.

Students seeking admission to the Secondary Master of Arts in Teaching Program at the University of Arkansas must be aware of the deadlines and admissions policies. Once all admission requirements are met by each candidate, a committee will review all applications and notify accepted and denied candidates by April 1. Each of the five content areas (English, foreign languages, mathematics, science and social studies) has a maximum number of 12 students admitted each year and up to 60 students in the overall program. If spaces remain in a particular content area and the overall program capacity has not yet been met by April 1, admissions for that area will be considered on a rolling basis until the beginning of the first summer session. These deadlines and limitations are designed to ensure that all students have a high quality experience and reflect current need for teachers in any particular content area.

To apply for admission to the Master of Arts in Teaching program in Secondary Education, you must:

1. Complete an appropriate undergraduate degree program (see pre-M.A.T. transcript evaluation for additional requirements for area of licensure).
2. Hold a minimum GPA of 3.0 in the last 60 hours of the completed undergraduate degree
3. Complete the application for teacher education through the Teacher Education Office by Oct. 15 (see the Teacher Education Application Fee (https://currentcatalog.uark.edu/undergraduatecatalog/feeandcosts/othergeneralfees)).
4. File an application for admission to the Graduate School by Jan. 31.
5. Pass Praxis I exam before admission to the program.
6. Send three letters of recommendation before the interview in February to Janet Johnson-Mertz, 113 Peabody Hall, 1 University of Arkansas, Fayetteville, AR 72701
7. Successfully complete the required criminal background check. Background check materials must be submitted by May 1.
8. Schedule and complete an admission screening interview with a portfolio in February.

For Fulbright College Math Students: Complete a B.A. or B.S. in mathematics. Complete these additional course requirements: MATH 3773 Foundations of Geometry I (Fa), MATH 3133 History of Mathematics (Sp), and STAT 3013 Introduction to Probability (Sp, Su, Fa).

Note: At the time of the interview, candidates must have a GPA of 3.0 on the last 60 hours of undergraduate coursework, have passed the PRAXIS I exam, submitted three letters of reference, and submitted a portfolio. Additionally, foreign language majors must submit proof of having passed the foreign language proficiency exam.

Once we have received all application materials from the Graduate School, an admission decision will be made based on the criteria described in the admissions policy statement. The probationary status will include the content specific courses of the spring semester term. The number admitted into specific teaching fields will be determined by both availability of internship spaces in the public schools with Cohort Partnership agreements and job market potential. However, meeting or exceeding minimum requirements does not guarantee acceptance into the M.A.T.

At the completion of the first 6 hours of MAT courses (which are taken in the summer semester), the secondary education faculty will review the status of all the students in the program. Students with unsatisfactory performance (grades of C or lower) in the summer courses will not be allowed to continue with the remainder of the program.

Students should also be aware of Graduate School requirements with regard to master’s degrees (https://currentcatalog.uark.edu/graduatemastercatalog/degreerequirements/#mastersdegreestext).

Prerequisites to the M.A.T. Degree Program: Admission requirements for the M.A.T. degree program for initial licensure are as follows:

1. Completion of an appropriate undergraduate degree program.
2. Cumulative GPA of 3.00 in the last 60 hours of the baccalaureate degree
3. Admission to the Graduate School
4. Admission to the Teacher Education Program.
5. Completion of the pre-education requirements with a minimum of “C” in all courses
6. Completion of all prerequisite courses in teaching field.
7. Pass Praxis I
8. Take Praxis II content test(s) before the end of the summer session of admission

Requirements for the Master of Arts in Teaching Degree in Secondary Education: (Minimum 33-34 hours.)

1. Computer competencies will be demonstrated by the candidate in the admission interview portfolio or by taking an approved course.
2. CIED 4131 Practicum for Secondary and Multilevel Tracks in Education (Sp, Su). Candidates for the Secondary Education M.A.T. program will register for this course. The requirement for this course is 60 hours of experience with children in grades 7 through 12. A minimum of 30 of these hours will be in a secondary school with the remaining hours in other youth settings. These hours must be documented by the appropriate organization.
3. Students will take CIED 3023 Survey of Exceptionalities (Sp, Su, Fa) or CIED 4023 Teaching in Inclusive Secondary Settings (Su). CIED 4023 is the preferred course.
4. Students in French, German, and Spanish will take CIED 4013 Capstone Course for Foreign Language Licensure (Sp). Students will compile a portfolio in the target language with several pieces of evidence from their content classes. In addition, students must obtain a minimum passing score of Advanced Low on the Oral Proficiency Interview prior to admission into the fall internship.

Secondary M.A.T. Courses 33-34

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIED 5012</td>
<td>Measurement, Research, and Statistical Concepts for Teachers (Su)</td>
</tr>
<tr>
<td>CIED 5022</td>
<td>Classroom Management Concepts (Fa)</td>
</tr>
<tr>
<td>CIED 5033</td>
<td>Curriculum Theory and Development for Educators (Su)</td>
</tr>
<tr>
<td>CIED 5052</td>
<td>Seminar: Multicultural Issues (Su)</td>
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</tbody>
</table>
Areas of Concentration for the M.Ed.: Areas of concentration are available in art, English, ESL (English as a second language), French, German, Spanish, biology, chemistry, physics, physical science, general science, earth and space science, speech, mathematics, social studies, journalism, or combinations of the above with career and technical education (CATE). The M.Ed. is designed for experienced teachers who have the goal of expanding professional competence. The M.Ed. program does not meet requirements for state licensure except for students in Career and Technical Education. Students seeking state licensure should pursue enrollment in the M.A.T. program in Middle-Level Education (Grade 4 through Grade 8) or Secondary Education (Grade 7 through Grade 12).

Students should also be aware of Graduate School requirements with regard to master's degrees (https://currentcatalog.uark.edu/graduatemasters/degreerequirements/#mastersdegreestext).

Secondary Education, M.Ed.

Students pursuing the career and technical education concentration (CATE) may complete a program of study that leads to licensure in Arkansas and/or take advanced courses to expand their professional knowledge. Students pursuing this concentration must meet with a CATE faculty adviser before admission to the program for additional requirements.

**Prerequisites to the Master of Education Degree Program:**

1. Minimum 3.0 grade-point average on the last 60 hours of undergraduate courses or 2.50 grade-point average on all undergraduate courses and a Miller Analogies Test score at the 50th percentile or above, and
2. Graduate School admission and program area approval.

**Requirements for the Master of Education Degree:** (Minimum 33 hours.) In addition to the program requirements listed below, all degree candidates must hold a valid secondary school teaching certificate and must successfully complete a written comprehensive examination and a second assessment.

**Program Requirements:** minimum 33 hours

**Required Core Courses**

Select one from each of the following categories:

1. 9 additional hours in secondary education (SEED) courses
2. Three semester hours of field experience
3. Three semester hours selected with adviser's consent.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIED 5063</td>
<td>Disciplinary and Interdisciplinary Literacies in Education (Fa)</td>
</tr>
<tr>
<td>CIED 5223</td>
<td>Learning Theory (Su)</td>
</tr>
<tr>
<td>CIED 5232</td>
<td>Interdisciplinary Studies (Sp, Su, Fa)</td>
</tr>
<tr>
<td>CIED 5263</td>
<td>Assessment, Evaluation, and Practitioner Research (Fa)</td>
</tr>
<tr>
<td>CIED 5273</td>
<td>Research in Curriculum and Instruction (Sp, Su, Fa)</td>
</tr>
<tr>
<td>CIED 528V</td>
<td>Teaching Experience (Sp, Fa) ²</td>
</tr>
<tr>
<td>CIED 5683</td>
<td>Adolescent Literature (Sp, Su, Fa)</td>
</tr>
<tr>
<td>SEED 5003</td>
<td>Introduction to Teaching Secondary Science (Su)</td>
</tr>
<tr>
<td>SEED 5013</td>
<td>Teaching Secondary Science: Theory to Practice (Fa)</td>
</tr>
<tr>
<td>SEED 5022</td>
<td>Secondary Science Seminar (Sp)</td>
</tr>
<tr>
<td>SEED 5103</td>
<td>Methods of Teaching Secondary Social Studies I (Su)</td>
</tr>
<tr>
<td>SEED 5113</td>
<td>Teaching History, Government and Economics (Fa)</td>
</tr>
<tr>
<td>SEED 5122</td>
<td>Teaching Geography, World Cultures, and Religions (Sp)</td>
</tr>
<tr>
<td>CIED 5213</td>
<td>Issues and Trends in Literacy (Fa)</td>
</tr>
<tr>
<td>SEED 5222</td>
<td>Seminar: Language, Literacy and Culture (Sp)</td>
</tr>
<tr>
<td>SEED 5303</td>
<td>Teaching Secondary Mathematics (Su)</td>
</tr>
<tr>
<td>SEED 5313</td>
<td>Theories of Learning Mathematics (Fa)</td>
</tr>
<tr>
<td>SEED 5322</td>
<td>Integrating Technology and Mathematics (Sp)</td>
</tr>
<tr>
<td>SEED 5403</td>
<td>Methods of Teaching Foreign Language K-12 (Su)</td>
</tr>
<tr>
<td>SEED 5413</td>
<td>Instructional Practices in Teaching Foreign Language (Fa)</td>
</tr>
<tr>
<td>SEED 5422</td>
<td>Special Issues in Teaching Foreign Language (Sp)</td>
</tr>
<tr>
<td>SEED 5503</td>
<td>Teaching Secondary Mathematics and Science (Su)</td>
</tr>
</tbody>
</table>

² CIED 528V Teaching Experience (Sp, Fa) will be taken once during the fall semester for 3 hours and taken again in the spring semester for 3 hours.

Students should also be aware of Graduate School requirements with regard to master's degrees (https://currentcatalog.uark.edu/graduatecatalog/degreerequirements/#mastersdegreestext).
Option 4: ESL Endorsement

1. Teacher certification in at least one field
2. CIED 5923 Second Language Acquisition (Sp) 3
   CIED 5933 Second Language Methodologies (Fa) 3
   CIED 5943 Teaching People of Other Cultures (Sp) 3
   CIED 5953 Second Language Assessment (Sp) 3

3. Course in multiculturalism

Option 5: Career and Technical Education

1. Nine (9) hours college core
2. CATE 3103 Introduction to Professionalism (Fa) 3
   CATE 4023 Classroom Management (Fa) 3
   CATE 5013 Teaching Strategies (Fa) 3
   CATE 5016 Cohort Teaching Internship (Sp) 6
   CATE 5033 Assessment/Program Evaluation (Fa) 3
   SPED 5733 Inclusive Practices for Diverse Populations (Su) 3

Or

CATE 5543 Technology for Teaching and Learning (Su, Fa) 3
CATE 5573 Instructional Materials (Su, Fa) 3
CIED 5623 The School Curriculum (Sp, Su, Fa) 3
CATE 5033 Inclusive Practices for Diverse Populations (Su) 3
6 semester hours selected with adviser’s consent 6
6 semester hours other professional education courses 6

Social Work (SCWK)

Faculty
R. Scott Burcham, Clinical Assistant Professor
Kameri Christy, Professor
Sara J. Collie, Clinical Assistant Professor
Alishia Juanelle Ferguson, Clinical Assistant Professor
Glenda J. House, Clinical Associate Professor
Debra Hurd, Clinical Professor
Yvette Murphy-Erby, Professor
Anna North Piazza, Visiting Assistant Professor
Marcia A. Shobe, Professor
Kim Stauss, Associate Professor
Valandra, Assistant Professor

Marcia Shobe
Director, School of Social Work
106 Academic Support Building
479-575-7786
E-mail: mshobe@uark.edu (ymurphy@uark.edu)

Glenda J. House
MSW Program Director
ASUP 106
479-575-3783
E-mail: ghouse@uark.edu

http://socialwork.uark.edu/

Degree Conferred:
Master of Social Work (M.S.W.)

Professional social workers promote human well-being by strengthening opportunities, resources, and capacities of people in their environments and by creating policies and services to correct conditions that limit human rights and the quality of life. The social work profession works to eliminate poverty, discrimination, and oppression. Guided by a person-in-environment perspective and respect for human diversity, the profession works to effect social and economic justice worldwide. The purpose of the graduate social work program at the University of Arkansas is to prepare advanced-level professional social workers as leader/practitioners with the capacity to address complex personal, social, community, and economic problems preventing so many of Arkansas’ people (and people across the country and globally) from moving out of poverty to self-sufficiency. The M.S.W. program is accredited by the Council on Social Work Education (CSWE).

Areas of Study: The School of Social Work offers focused studies in multi-system life-course. The multi-system life-course perspective prepares students for advanced social work practice with a range of systems (individuals, families, groups, organizations, and communities) and for practice with individuals across the life course as they interact with multiple systems.

Primary Areas of Faculty Research: Healthy aging; human behavior and the social environment theory; gerontology; addictions; health and health disparities; poverty reduction; human diversity; international social work; social work history; women and asset development; children and families.

Admission Requirements: Admission to the University of Arkansas Graduate School as well as admission to the School of Social Work M.S.W. program is required. Admission requirements for the M.S.W. program include: a baccalaureate degree with a liberal arts perspective from an accredited college or university (official transcripts must be provided); a minimum 3.00 undergraduate GPA on a four-point scale; 2.75 for conditional admission; a personal statement of motivation and experiences supporting admission to the MSW program; a social needs paper that discusses a current social need that is of concern and interest to you; three professional reference letters (faculty, employers, supervisors); a basic statistics course; and computer literacy demonstrated through prior course work. Applicants with a GPA between 2.75-2.99 for the last 60 hours of their first undergraduate degree are required to complete the Graduate Record Examination (GRE) or Millers Analogies Test (MAT) and to submit GRE/MAT scores to the Graduate School. In addition to the above requirements, for admission to the Advanced Standing program, applicants must have a bachelor’s degree in social work, received during the past six years, from a school accredited by the Council on Social Work Education.

Two-year Program Option: This option is available for students without a baccalaureate degree from a program accredited by the Council on Social Work Education (CSWE). Students in the two-year option must successfully complete a total of 63 credit hours. The following are required Foundation courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCWK 4073</td>
<td>Social Work Research and Technology I (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>SCWK 4093</td>
<td>Human Behavior and the Social Environment I (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>SCWK 4103</td>
<td>Human Behavior and the Social Environment II (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>SCWK 4153</td>
<td>Social Welfare Policy (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>SCWK 4333</td>
<td>Social Work Practice I (Sp, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>SCWK 4343</td>
<td>Social Work Practice II (Sp, Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>
SCWK 4733  Social Work Practice III (Sp, Fa)  3
SCWK 5003  Foundations of Culturally Competent Social Work Practice (Fa)  3
SCWK 5013  Bridge Course: Evidenced Based Social Work (Su)  3
SCWK 5412  Foundation Field Seminar (Sp)  2
SCWK 5434  Foundation Field Internship (Sp)  4

The following are required Advanced courses:

SCWK 5073  Social Work Research and Technology II (Fa)  3
SCWK 6000L  Thesis Laboratory (Sp, Su)  0
SCWK 6003  Advanced Social Work Practice Using the MSLC Perspective (Fa)  3
SCWK 6442  Advanced Field Seminar I (Fa)  2
SCWK 6444  Advanced Field Internship I (Fa)  4
SCWK 6452  Advanced Field Seminar II (Sp)  2
SCWK 6454  Advanced Field Internship II (Sp)  4

Three-year Extended Program Option: This option is available for students without a baccalaureate degree from a program accredited by the Council on Social Work Education (CSWE). Students in the three-year extended program must successfully complete a total of 63 credit hours. The following are required foundation courses:

SCWK 4073  Social Work Research and Technology I (Sp, Fa)  3
SCWK 4093  Human Behavior and the Social Environment I (Sp, Fa)  3
SCWK 4103  Human Behavior and the Social Environment II (Sp, Fa)  3
SCWK 4153  Social Welfare Policy (Sp, Fa)  3
SCWK 4333  Social Work Practice I (Sp, Fa)  3
SCWK 4343  Social Work Practice II (Sp, Fa)  3
SCWK 4733  Social Work Practice III (Sp, Fa)  3
SCWK 5003  Foundations of Culturally Competent Social Work Practice (Fa)  3
SCWK 5013  Bridge Course: Evidenced Based Social Work (Su)  3
SCWK 5412  Foundation Field Seminar (Sp)  2
SCWK 5434  Foundation Field Internship (Sp)  4

The following are required advanced courses:

SCWK 5073  Social Work Research and Technology II (Fa)  3
SCWK 6000L  Thesis Laboratory (Sp, Su)  0
SCWK 6003  Advanced Social Work Practice Using the MSLC Perspective (Fa)  3
SCWK 6442  Advanced Field Seminar I (Fa)  2
SCWK 6444  Advanced Field Internship I (Fa)  4
SCWK 6452  Advanced Field Seminar II (Sp)  2
SCWK 6454  Advanced Field Internship II (Sp)  4

Please note that the three-year extended program accepts students every other year (e.g. Fall 2009, 2011, 2013, 2015, etc.)

Advanced Standing Option: Students with a baccalaureate degree from a program accredited by CSWE are eligible to apply for Advanced Standing. This option requires a total of 39 credit hours including SCWK 5013, SCWK 5442, SCWK 5444, and the advanced course work listed above for the two- and three-year options. Students may complete the advanced standing option either on campus or online.

Electives: Each student is required to successfully complete three electives (9 credit hours). Electives are chosen in consultation with and with approval from the student’s major faculty adviser. Students may enroll in electives from outside the School of Social Work, with faculty adviser approval.

Each student is required to successfully complete a population-specific practice course (3 credit hours) from either SCWK 6233 or SCWK 6243. Students may choose to take the other population-specific practice course as an elective.

Graduate social work electives include:

SCWK 5143  Global Social and Economic Justice and Oppression (Irregular)  3
SCWK 5153  Children, Youth, and Family (Irregular)  3
SCWK 5163  Social Work Management, Administration and Supervision (Irregular)  3
SCWK 5173  Advanced Practice with Families and Couples (Irregular)  3
SCWK 5183  Advanced Practice with Individuals (Irregular)  3
SCWK 5193  Advanced Practice and Policy in Aging (Irregular)  3
SCWK 5213  Advanced Practice in Behavioral and Mental Health (Irregular)  3
SCWK 5253  Spirituality and Social Work Practice (Sp, Fa)  3
SCWK 5343  Advanced Practice with Groups (Irregular)  3

Elective topics often change from semester to semester based on faculty expertise and student interest. Therefore, it is not possible to guarantee specific electives.

Other Requirements: M.S.W. students are required to complete a capstone paper and presentation. The capstone project is a research experience in the area of practice/program evaluation, guided and evaluated by a panel of faculty and senior social work practitioners from the community. Students may choose instead, with faculty approval, to complete a thesis. The thesis option is guided by the student’s thesis committee, resulting in a final paper and oral defense. Both options are completed in conjunction with the three-hour Research and Technology course.

The Department of Social Work and the School of Law cooperate in offering a dual degree program that allows a student to pursue the Master of Social Work and the Juris Doctor degrees concurrently in order to achieve the following program objectives:

1. To educate practitioners in social work and law to be able to effectively utilize the problem-solving strategies and techniques of both disciplines to the benefit of their clients, their colleagues, and the community.
2. To provide the core curriculum necessary for the education of students in each profession while enabling them to focus on areas of knowledge and practice that correspond to their professional goals.
3. To facilitate integration of the two disciplines through experiential learning opportunities.
4. To promote a philosophy of interdisciplinary collaboration between law and social work professionals and create a collaborative learning environment.
5. To prepare practitioners who have a commitment to a human condition that is free from violence, oppression, and discrimination, and that protects and promotes the development of all people.

J.D./M.S.W. Program
The Juris Doctor/Master of Social Work dual degree is awarded after completion of a four-year integrated course of study. This eliminates approximately one year of study, while meeting all accreditation requirements of the American Bar Association and Council on Social Work Education.

Upon completion of the dual degree, students have earned a total of 135 credit hours (as opposed to 153 credit hours if the degrees are earned separately). A total of 12 hours credit earned in the M.S.W. program count toward completion of the J.D. degree. A total of 6 hours credit earned in the J.D. program count toward completion of the M.S.W. degree. In order to receive dual credit, minimum grade standards for each program must be met.

Students who do not maintain the academic or ethical standards of either degree program may be terminated from the dual degree program. Students in good standing in one degree program but not the other may be allowed to continue in the program in which they have good standing and must meet the degree requirements of that program. If for any reason a student admitted to the dual degree program does not complete the M.S.W. degree, the student cannot count the 12 hours of M.S.W. courses toward the J.D. degree. If for any reason a student admitted to the dual degree program does not complete the J.D. degree, the elective policy for the School of Social Work applies.

To be eligible for admission to the J.D./M.S.W. Dual Degree Program, students must apply separately and be admitted to the master’s program at the School of Social Work, to the juris doctor program at the School of Law, and to the joint program. As such, applicants must meet all of the requirements for admission to each program. Upon application to the J.D./M.S.W. dual degree, the applicant shall provide a statement of intent for admission that includes a brief explanation of the reasons for pursuing this dual degree program as well as goals upon completion of the program. Each degree will be conferred when the student has met all the requirements of that degree.

Should a student enter one program and later become aware of the availability of the joint program, the student must be admitted to both programs and to the joint program during his or her first year of class work in the program of original enrollment.

Sociology and Criminal Justice (SOCl)

Faculty
Douglas James Adams, Associate Professor
Juan Jose Bustamante, Assistant Professor
Lauren Copley, Visiting Assistant Professor
Grant R. Drawve, Assistant Professor
Mindy Sue Engen, Associate Professor
Rodney L. Engen, Associate Professor
Kevin M. Fitzpatrick, University Professor, Bernice Jones Chair of Community and Family Institute
Casey Taggart Harris, Assistant Professor
Patricia S. Herzog, Assistant Professor
Lori C. Holyfield, Professor
Brandon Jackson, Assistant Professor

Patricia Koski, Associate Professor
Shauna Morimoto, Associate Professor
Bill Schwab, University Professor
Christopher A. Shields, Assistant Professor
Brent Lamar Smith, Distinguished Professor
Shaun A. Thomas, Assistant Professor
Marcella Thompson, Instructor
Steven K. Worden, Associate Professor
Song Yang, Professor
Anna Zajicek, Professor

Anna Zajicek
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479-575-5149
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Shauna Morimoto
Graduate Director
229 Old Main
479-575-3784
E-mail: smorimot@uark.edu

fulbright.uark.edu/departments/sociology/graduate/index.php

Degree Conferred:
M.A. in Sociology (SOCl)

Areas of Concentration: General sociology and criminology.

Primary Areas of Faculty Research: Collective behavior; social movements and terrorism; community studies; criminology and criminal justice; democratic participation; family and policy; human ecology; institutional change; qualitative methods; quantitative methods; race/class/gender inequality; social network analysis; sociology of culture; sociology of emotions; sociology of religion; symbolic interaction; urban sociology.

Application Requirements for the MA in Sociology Program:
Applicants for graduate studies in sociology must be admitted to the Graduate School and must also submit the following: 1) at least two letters of recommendation from people who can judge the applicant’s academic potential as a graduate student; 2) a sample of written academic work (i.e., a research paper); 3) a one page statement in which the applicant discusses the educational objectives sought by entering our graduate program; 4) satisfactory GRE scores.

Prerequisites to Degree Program: Prior undergraduate work in social theory, research methods, statistics, and writing is considered necessary for successful performance at the graduate level. SOCI 3303 (or an approved equivalent), SOCI 3313 and SOCI 3423 (or an approved equivalent) are required to eliminate deficiencies. Additionally, students applying to the criminology concentration must show prior undergraduate work in introductory criminal justice or criminology. SOCI 3023/CMJS 3023 (or an approved equivalent) is required to eliminate deficiencies for students pursuing the criminology concentration. Undergraduate deficiencies must be removed by taking the appropriate undergraduate courses during the first twelve hours of graduate work or the first time the courses are offered.

Requirements for the Master of Arts Degree: (Minimum 32 hours.)

Core Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title (Prefix)</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 5001</td>
<td>Proseminar (Fa)</td>
<td>1</td>
</tr>
<tr>
<td>SOCI 5253</td>
<td>Classical Social Theory (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>
SOCI 5311L  Applied Data Analysis Laboratory (Sp)  1
SOCI 5313  Applied Data Analysis (Sp)  3
SOCI 5013  Advanced Social Research (Fa)  3

M.A. in Sociology with a concentration in General Sociology: In addition to meeting all of the core requirements outlined above, students wishing to pursue a master’s degree in Sociology with a concentration in general sociology must complete the following courses:

Required Courses
SOCI 5263  Contemporary Social Theory (Sp)  3
SOCI 5083  Applied Qualitative Research (Fa)  3

Restricted Electives
Select two of the following:  6

   SOCI 503V  Special Topics (Irregular)
   SOCI 5043  Public Policy, Children and Families (Irregular)
   SOCI 5113  Seminar in Social Inequality (Irregular)
   SOCI 5133  The Community (Irregular)
   SOCI 5153  Sociological Perspective on Social Psychology (Irregular)
   SOCI 5233  Theories of Deviance (Irregular)

Total Hours  12

M.A. in Sociology with a concentration in Criminology: In addition to meeting all of the core requirements outlined above, students wishing to pursue a master’s degree in Sociology with a concentration in criminology must complete the following courses:

Required Course
SOCI 5413  Seminar in Criminological Theory (Sp)  3
SOCI 5423  Research in Criminology (Fa)  3

Restricted Electives
Select two of the following:  6

   SOCI 5433  Victimization (Irregular)
   SOCI 5443  Seminar in Terrorism (Irregular)
   SOCI 5453  Social Control (Irregular)
   SOCI 5463  White Collar Crime (Irregular)
   SOCI 5473  Crime and Community (Irregular)

Total Hours  12

In addition to these common core courses, the courses required in a specific concentration, and the six hours of specialization-specific restricted electives, the student must take sufficient hours of electives to reach 32 semester hours total. The Department of Sociology and Criminal Justice retains the right to make exceptions to the list of concentration-specific electives. Such exceptions must be approved by the Graduate Committee and authorized in writing by the Graduate Director. A maximum of three elective credit hours may be taken at the 4000 level without prior approval by the Graduate Committee. Students may apply three hours of independent study toward the degree provided that a research proposal is approved by the instructor prior to enrollment in the course. The student’s adviser must authorize courses outside of the department. Except for rare circumstances, no more than three hours of credit outside of the department will count for the degree.

The Department of Sociology and Criminal Justice offers a thesis and non-thesis option. Completion of the program for all students is contingent upon passing a comprehensive examination covering major course work.

Thesis Option: Students must take 26 hours of course work and six hours of thesis credit. All M.A. candidates in this option are required to develop and present a prospectus of the thesis to their thesis committee. They must also write and orally defend their thesis, including research methods, theory, and the area of thesis concentration.

Non-Thesis Option: Students must take 32 hours of course work. Students must select an area of study as listed in the departmental graduate handbook. Under this option, students must take a written comprehensive examination in theory, research methods, and the area of study.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Space and Planetary Sciences (SPAC)

Faculty
Steve K. Boss, Professor
Vincent Francois Chevrier, Assistant Professor
John C. Dixon, Professor
Po-Hao Adam Huang, Associate Professor
Mack Ivey, Associate Professor
Daniel John Kennefick, Assistant Professor
Julia Dusk Kennefick, Assistant Professor
Timothy Alan Kral, Professor
Alan Mantooth, Distinguished Professor, Twenty-First Century Chair in Mixed-Signal IC Design and CAD
William Oliver III, Associate Professor
Larry Roe, Associate Professor, Twenty-First Century Endowed Chair
Jason A. Tullis, Associate Professor

John Dixon
Graduate Coordinator
Ozark 140
479-575-5808
E-mail: cdixon@uark.edu

http://spacecenter.uark.edu

Degree Conferred:
M.S., Ph.D. (SPAC)

Note: Concentrations in Space and Planetary Sciences are also offered in the M.A. degree in Geography, M.S. degree in Geology, and Ph.D. degree in Biology.

The program provides advanced course work and research experience for persons seeking a career in the academic, government, private, or military sectors of space and planetary sciences or associated technologies.

Primary Areas of Faculty Research: Astronomical processes, geological processes on planetary surfaces, planetary atmospheres, mission instrumentation and design, Mars: near-surface processes and biological investigations, and ice moons – particularly Titan – and surface processes.

Admission to Degree Program: Students wishing to apply for admission to the graduate degrees in space and planetary sciences should contact the Center’s graduate coordinator at cdixon@uark.edu. Applicants should prepare to have transcripts, two letters of recommendation, and a statement of purpose sent to the Center. Applicants are encouraged
to submit scores from the Graduate Record Examination, including the writing score.

**Basic Requirements for the Master’s Degree:** At least 24 semester hours of courses plus at least six hours of SPAC 600V are required for a total of at least 30 hours beyond the baccalaureate degree. Students are required to take the following courses:

### Non-Core Courses
- SPAC 511L  Space and Planetary Lab (Fa)  
- SPAC 5211  SPAC Proseminar (Sp)  

### Core Courses
Select three of the following:
- SPAC 5033  Planetary Systems (Odd years, Fa)  
- SPAC 5313  Planetary Atmospheres (Irregular)  
- SPAC 5413  Planetary Geology (Even years, Sp)  
- SPAC 5513  Biochemical Evolution (Odd years, Sp)  

**Space and Planetary Electives**
(see list below) - Must take at least three courses (9 hours). Substitutions may be made with the approval of the committee.

### Thesis
- SPAC 600V  Master's Thesis (Sp, Su, Fa)  

**Total Hours**

\[
\text{Total Hours} = 24
\]

**Space and Planetary Electives**
Note: Other courses may count as electives with the approval of the student’s research adviser and committee. No more than two 4000-level courses may be counted toward the Ph.D. degree.

### Planetary Astronomy
- ASTR 4013/5013  Astrophysics (Even years, Sp)  
- GEOS 4433  Geophysics (Irregular)  
- CHEM 5263  Nuclear Chemistry (Odd years, Fa)  
- CHEM 5273  Cosmochemistry (Odd years, Sp)  
- PHYS 5513  Atomic and Molecular Physics (Odd years, Sp)  

### Planetary Geology
- GEOS 5123  Stratigraphic Principles and Practice (Irregular)  
- GEOS 5423  Remote Sensing of Natural Resources (Even years, Sp)  
- GEOS 560V  Graduate Special Problems (Sp, Su, Fa)  

### Planetary Atmospheres
- GEOS 4353  Meteorology (Fa)  
- GEOS 4363  Climatology (Sp)  
- GEOS/ENDY 5113  Global Change (Fa)  

### Origin and Evolution of Life
- BIOL 4233  Genomics and Bioinformatics (Sp)  
- BIOL 4263  Cell Physiology (Fa)  
- BIOL 4353  Ecological Genetics/Genomics (Odd years, Fa)  
- BIOL 5463  Physiological Ecology (Odd years, Sp)  
- CHEM 5813  Biochemistry I (Fa)  
- CHEM 5843  Biochemistry II (Sp)  

### Astronautics and Orbital Mechanics
- CSCE 5043  Advanced Artificial Intelligence (Irregular)  
- MEEG 4233  Microprocessors in Mechanical Engineering I: Electromechanical Systems (Irregular)  
- MEEG 4433  Aerospace Propulsion (Irregular)  
- MEEG 5273  Electronic Packaging (Irregular)  

**Additional Requirements:** Students are required to complete a thesis or dissertation describing original research work in the space and planetary sciences that must be presented to and successfully defended before their committee. In addition, Ph.D. students must pass a candidacy examination.

The Ph.D. candidacy examination is administered by the student’s committee and is designed to test the student’s ability to assimilate, integrate and interpret material learned in the core required courses:
While at the same time having a depth of understanding in the area of the student's research. Thus the candidacy examination will be in two parts: (1) a 2500-word integrative essay on a theme chosen by the committee, and (2) an oral defense of the thesis before the committee. Part (1) will be assigned six weeks before the candidacy defense and shall be presented to the committee two weeks before that defense. The defense will be held at a date determined by the committee but usually before the end of the student's second year in graduate school. The committee will judge the examination as pass/fail and in the case of failure – and at the discretion of the committee – a second attempt to pass the qualifying examination is permitted within a period of time determined by the committee.

Students should also be aware of Graduate School requirements with regard to doctoral degrees (p. 266).

**Spanish**

See World Languages, Literatures, and Cultures (p. 178).

**Special Education (SPED)**

Peggy Schaefer-Whitby
Program Coordinator
308 ARKA (410 Arkansas Avenue)
479-575-3302
E-mail: pschaefe@uark.edu (bgartin@uark.edu)

**Admission Requirements for the Master of Education in Special Education:**

- A bachelor's degree from an accredited institution of higher education
- A minimum 3.0 cumulative grade point average (GPA) during the last 60 hours of undergraduate work
- GRE scores

**Requirements for the Master of Education in Special Education:**
(Minimum of 36 graduate hours.) All programs will require nine semester hours of core courses, three semester hours of cognate study, and 24 semester hours in special education.

This course work is selected by students and faculty according to the needs of the student and licensure. Core course requirements can be satisfied by taking three hours from each of the areas listed below:

Select one from each of following categories: 9

1. ESRM 5013 Research Methods in Education (Sp, Su, Fa) 3
2. ESRM 5393 Statistics in Education and Health Professions (Sp, Su, Fa) 3
3. SPED 5883 Research in Special Education (Fa) 3

- SPED 6433 Legal Aspects of Special Education (Irregular) 3
- SPED 5343 ABA and Classroom Management for Teachers (Irregular) 3
- SPED 5733 Inclusive Practices for Diverse Populations (Su) 3
- SPED 5783 Professional and Family Partnerships (Sp) 3
- SPED 5763 Teaching Individuals with Severe Disabilities (Sp) 3
- SPED 5873 Assessment and Programming for Students with Disabilities (Fa) 3
- CIED 5573 Foundations of Literacy (Sp, Su, Fa) 3
- CIED 532V Practicum in Special Education (Irregular) 1-6

For a focus area in initial licensure Special Education the following courses are required and students will need to make application to the Teacher Education office within their first semester.

- SPED 5343 ABA and Classroom Management for Teachers (Irregular) 3
- SPED 5733 Inclusive Practices for Diverse Populations (Su) 3
- SPED 5763 Teaching Individuals with Severe Disabilities (Sp) 3
- SPED 5783 Professional and Family Partnerships (Sp) 3
- SPED 5873 Assessment and Programming for Students with Disabilities (Fa) 3
- SPED 6803 Teaching Students with Autism Spectrum Disorders (Fa) 3
- CIED 5573 Foundations of Literacy (Sp, Su, Fa) 3
- CIED 532V Practicum in Special Education (Irregular) 1-6

For a focus area in Autism Spectrum Disorders, the following courses plus 4 special education electives are required:

- SPED 6803 Teaching Students with Autism Spectrum Disorders (Fa) 3
- SPED 6813 Characteristics and Assessment of Persons with ASD (Sp) 3
- SPED 6823 Instructional Methods for Students with Autism Spectrum Disorders (Fa) 3
- SPED 6833 Practicum in Autism Spectrum Disorders (Sp, Su, Fa) 3
- SPED 5143 Teaching Communication Skills to Persons with Autism (Su) 3

For a focus area in Applied Behavior Analysis, the following courses plus 3 special education electives are required:

- SPED 6843 Basic Principles of ABA (Fa) 3
- SPED 6853 Behavioral Assessment in ABA (Su) 3
- SPED 6863 Behavior Change Procedures and Supports (Sp) 3
- SPED 6873 Measurement and Experimental Design (Fa) 3
Candidates for the Graduate Certificate must have a B or better in the Program of Study. Courses from other institutions will not be substituted for the required courses. As of 2015, those seeking to become a National Board Certified Behavior Analyst will be required to have a degree in Education, Psychology, or Applied Behavior Analysis. Those with master’s degrees in areas other than Education, Psychology, or Applied Behavior Analysis will need to consult with the Behavior Analyst Certification Board to determine if their degree program will be accepted. However, the graduate certificate in ABA can be infused into a degree program if needed.

**Graduate Certificate Program in Autism Spectrum Disorders (AUTS):**

The graduate certificate in Autism Spectrum Disorders develops professionals in the area of autism spectrum disorders. The program recognizes students who take a concentrated core of courses focused on autism spectrum disorders. Students who earn the certificate develop knowledge and skills in the areas of characteristics, assessment, and educational interventions for individuals with autism spectrum disorders.

**Admission requirements for the Graduate Certificate program include:**

- A minimum of a 3.5 cumulative grade point average (GPA) during the last 60 hours of undergraduate work.
- GRE minimum scores for Verbal and Quantitative Reasoning at the 49th percentile and at the 54th percentile for the Analytical Writing.

**Program of Study:**

- SPED 5143 Teaching Communication Skills to Persons with Autism (Su) 3
- SPED 6803 Teaching Students with Autism Spectrum Disorders (Fa) 3
- SPED 6813 Characteristics and Assessment of Persons with ASD (Sp) 3
- SPED 6823 Instructional Methods for Students with Autism Spectrum Disorders (Fa) 3
- SPED 6833 Practicum in Autism Spectrum Disorders (Sp, Su, Fa) 3

**Statistics and Analytics (STAN)**

Mark Arnold  
Program Director  
301 Science Engineering Building  
479-575-3351  
E-mail: arnold@uark.edu

**Degree Conferred:**

M.S. (STANMS)

The M.S. degree in Statistics and Analytics is a cross-college interdisciplinary program building on the university’s current strengths in the Colleges of Arts and Sciences; Business; Education and Health Professions; and Engineering. Students may choose one of seven concentrations: Biological Analytics; Business Analytics; Computational Analytics; Educational Statistics & Psychometrics; Operations Analytics; Quantitative Social Sciences; or Statistics.

**Primary Areas of Faculty Research:** Statistics and statistical analysis and design methodologies in business analytics, operations analytics, computational analytics, educational statistics and social science research.
Prerequisites to Degree Program: In addition to the requirements of the Graduate School, applicants for admission to the M.S. program in Statistics and Analytics must submit a) three letters of recommendation from persons familiar with the applicant’s previous academic and professional performance and b) official test scores as specified for the applicant’s area of interest.

Requirements for the Master of Science (M.S.) Degree
Requirements for the master's degree are fulfilled through one of the following seven concentrations. Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Requirements for Concentration in Biological Analytics
Undergraduate Deficiencies
- MATH 2554 Calculus I (ACTS Equivalency = MATH 2405) (Sp, Su, Fa)
- MATH 3083 Linear Algebra (Sp, Su, Fa)

Core
Requirements include one course from each of these areas as approved by the student’s advisory committee: Statistical Methods, Regression Analysis, Multivariate Analysis, Experimental Design

Required Courses
- CSCE 5013 Advanced Special Topics in Computer Science or Computer Engineering (Irregular) 3
- BIOL 5153 Practical Programming for Biologists (Irregular) 3
- ISYS 5723 Advanced Multivariate Analysis (Irregular) 3

Choose from one of the following options:
- 9 additional hours of electives
- 3 hours of electives, 6 hours of thesis credit, and submission of an acceptable thesis

Written comprehensive exam (non-thesis) or defense of the thesis

Total Hours 30

Requirements for Concentration in Business Analytics
Undergraduate Deficiencies
- MATH 2554 Calculus I (ACTS Equivalency = MATH 2405) (Sp, Su, Fa)

Core
Requirements include one course from each of these areas as approved by the student’s advisory committee: Statistical Methods, Regression Analysis, Multivariate Analysis, Experimental Design

Required Courses
- ISYS 511V IT Toolkit & Skills Seminar (Irregular) 3
- ISYS 5833 Data Management Systems (Sp, Fa) 3
- ISYS 5843 Seminar in Business Intelligence and Knowledge Management (Sp, Fa) 3

Choose from one of the following options:
- 9 hours of electives
- 3 hours of electives and 6 hours of thesis credit

Written comprehensive exam (non-thesis) or defense of the thesis

Total Hours 30

Requirements for Concentration in Computational Analytics
Undergraduate Deficiencies
- MATH 2554 Calculus I (ACTS Equivalency = MATH 2405) (Sp, Su, Fa)
- MATH 3083 Linear Algebra (Sp, Su, Fa)
- CSCE 4133 Algorithms (Fa)

Core
Requirements include one course from each of these areas as approved by the student’s advisory committee: Statistical Methods, Regression Analysis, Multivariate Analysis, Experimental Design

Required Courses
- CSCE 4523 Database Management Systems (Sp) 3
- CSCE 4613 Artificial Intelligence (Irregular) 6

Choose one of the following options:
- 9 hours of electives
- 3 hours of electives, 6 hours of thesis credit and submission of an acceptable thesis

Written comprehensive exam (non-thesis) or defense of the thesis

Total Hours 30

Requirements for Concentration in Educational Statistics and Psychometrics
Undergraduate Deficiencies
- MATH 2554 Calculus I (ACTS Equivalency = MATH 2405) (Sp, Su, Fa)

Core
Requirements include one course from each of these areas as approved by the student’s advisory committee: Statistical Methods, Regression Analysis, Multivariate Analysis, Experimental Design

Required Courses
- ESRM 5653 Educational Assessment (Irregular) 3
- ESRM 6653 Measurement and Evaluation (Fa) 3
- ESRM 6753 Item Response Theory (Odd years, Sp) 3
- ESRM 699V Seminar (Irregular) (as approved by the student's advisory committee) 3

Choose from one of the following options:
- 9 hours of electives as approved by the student's advisory committee
- 3 hours of electives, 6 hours of thesis credit, and submission of an acceptable thesis

Written comprehensive exam (non-thesis) or defense of the thesis

Total Hours 33

Requirements for Concentration in Operations Analytics
Undergraduate Deficiencies

Written comprehensive exam (non-thesis) or defense of the thesis.

Total Hours 30
MATH 2554  Calculus I (ACTS Equivalency = MATH 2405) (Sp, Su, Fa)  12
MATH 3083  Linear Algebra (Sp, Su, Fa)  12
STAT 3013  Introduction to Probability (Sp, Su, Fa)  12

Core
Requirements include one course from each of these areas as approved by the student’s advisory committee: Statistical Methods, Regression Analysis, Multivariate Analysis, Experimental Design

Required Courses
INEG 5613  Introduction to Optimization Theory (Fa)  3
INEG 5803  Simulation (Irregular)  3
One of the following:  3
ISYS 5843  Seminar in Business Intelligence and Knowledge Management (Sp, Fa)
CSCE 5073  Data Mining (Irregular)
Choose one of the following options:  9
9 hours of electives
3 hours of electives, 6 hours of thesis credit and submission of an acceptable thesis
Written comprehensive exam (non-thesis) or defense of the thesis

Total Hours  30

Requirements for a Concentration in Quantitative Social Science

Undergraduate Deficiencies
MATH 2554  Calculus I (ACTS Equivalency = MATH 2405) (Sp, Su, Fa)
MATH 3083  Linear Algebra (Sp, Su, Fa)
STAT 3013  Introduction to Probability (Sp, Su, Fa)

Core
Requirements include one course from each of these areas as approved by the student’s advisory committee: Statistical Methods, Regression Analysis, Multivariate Analysis, Experimental Design.

Required Courses
ISYS 5723  Advanced Multivariate Analysis (Irregular)  3
ECON 4753  Forecasting (Fa)  3
ECON 6623  Econometrics II (Sp)  3
ECON 6633  Econometrics III (Sp)  3
Choose one of the following options:  6
6 hours of electives to include two of the following: cost benefit analysis; GIS and spatial analysis; multilevel modeling; social network analysis
6 hours of thesis credit and submission of an acceptable thesis
Written comprehensive exam (non-thesis) or defense of the thesis

Total Hours  30

Requirements for Concentration in Statistics

Undergraduate Deficiencies
MATH 2564  Calculus II (ACTS Equivalency = MATH 2505) (Sp, Su, Fa)
MATH 3083  Linear Algebra (Sp, Su, Fa)
CSCE 2014  Programming Foundations II (Sp, Fa)

Core
Requirements include one course from each of these areas as approved by the student’s advisory committee: Statistical Methods, Regression Analysis, Multivariate Analysis, Experimental Design

Required Courses
STAT 5103  Introduction to Probability Theory (Fa)  3
STAT 5113  Statistical Inference (Sp)  3
STAT 5333  Analysis of Categorical Responses (Sp)  3
STAT 639V  Topics in Statistics (Irregular)  3
Choose one of the following options:  6
6 hours of electives
6 hours of thesis credit and submission of acceptable thesis
Written comprehensive exam (non-thesis) or defense of thesis

Total Hours  30

Supply Chain Management (SCMT)

Faculty
John Aloysius, Associate Professor
Terry L. Esper, Associate Professor, Oren Harris Chair in Logistics
Brian Fugate, Associate Professor, Oren Harris Chair in Transportation
Christian Hofer, Associate Professor
David Graham Hyatt, Clinical Assistant Professor
William C. Murphey, Instructor
Adriana Rossiter-Hofer, Associate Professor
Carole Shook, Instructor
Annibal Camara Sodero, Assistant Professor
Matthew A. Waller, Professor, Garrison Endowed Chair in Supply Chain Management
Brent D. Williams, Associate Professor

Brent D. Williams
Department Chair
475C Walton College of Business
479-575-2477

Chris Hofer
Ph.D. Program Director
475F Walton College of Business
479-575-6154

Degrees Conferred:
Ph.D. in Business Administration (WCOB)

Ph.D. in Business Administration – Supply Chain Management Concentration

The Ph.D. Program in Business Administration with a Supply Chain Management Concentration prepares individuals for academic careers in research, teaching and service at universities. The program imparts knowledge of the theoretical and substantive areas of supply chain management, as well as of conceptual skills and methodological tools, and prepares students to conduct independent research.

Program Requirements

Generally, the program is composed of 60 credit hours. Up to 3 credit hours of prior coursework may be applied to the requirements for the supply chain management Concentration with the recommendation and consent of the student’s Ph.D. Program Advisory Committee.
**Tools**

Depending on their interest and backgrounds, students will choose five courses from the following list:

- Univariate statistics (minimum 3 hours; e.g., ISYS 5203)
  - ISYS 5203 Experimental Design (Fa) (prior course work may be applied toward this requirement)
- Multivariate statistics (minimum 3 hours; e.g., MKTG 6433, ISYS 5623, ISYS 5723)
  - MKTG 6433 Seminar in Research Methods (Irregular)
  - ISYS 5623 Multivariate Analysis (Sp)
  - ISYS 5723 Advanced Multivariate Analysis (Irregular)
- Econometrics (minimum 3 hours; e.g., ECON 6613, ECON 6623, ECON 6633)
  - ECON 6613 Econometrics I (Fa)
  - ECON 6623 Econometrics II (Sp)
  - ECON 6633 Econometrics III (Sp)
- Structural equation analysis (e.g., SCMT 6423)
  - SCMT 6423 Seminar in Structural Equation Modeling (Irregular)
- Other (e.g., linear programming, integer programming, stochastic processes, qualitative research methods, etc.)

**Supply Chain Management Core**

Each doctoral will take five SCM Core Ph.d seminars from set of six courses

- SCMT 6413 Fundamentals of Logistics and Supply Chain Management (Irregular)
- SCMT 6433 Supply Chain Management Research (Irregular)
- SCMT 6443 Theory in Supply Chain Management (Irregular)
- SCMT 6453 Behavioral Supply Chain Management (Irregular)
- SCMT 6463 Research in Retail Supply Chain Management (Irregular)
- SCMT 6473 Emerging Topics in Supply Chain Management (Irregular)

**Microeconomics**

- ECON 6233 Microeconomic Theory II (Sp) (Prior course work may be applied toward this requirement)

or equivalent

**Supporting Fields**

Courses for the supporting fields requirement are made in consultation with the student’s Ph.D. Program Advisory Committee. All courses taken for the supporting fields must be at the graduate level and/or taken for graduate credit. A minimum of six hours should be taken in graduate research seminars.

**Dissertation**

A dissertation will be written under the guidance of the supply chain management faculty. The dissertation committee consists of a minimum of 3 graduate faculty members. One graduate faculty member outside the Department may be chosen for this committee depending on the dissertation topic.

- SCMT 700V Doctoral Dissertation (Sp, Su, Fa)

**Total Hours**

60

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**Sustainability (SUST)**

**Faculty**

- Geosciences
- Architecture

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**Graduate Certificate Offered:**

Sustainability (non-degree)

The Graduate Certificate in Sustainability is interdisciplinary, drawing from faculty and course work across all colleges of the University of Arkansas. The graduate certificate is accessible to all students admitted to the Graduate School, both degree-seeking and non-degree seeking, who wish to pursue advanced study in Sustainability. The purpose of the Graduate Certificate in Sustainability is to provide functional graduate-level knowledge and skills related to the emerging discipline of Sustainability organized around four thematic areas reflecting strength in scholarship of University of Arkansas academic colleges: Sustainability of Social Systems, Sustainability of Natural Systems, Sustainability of Built Systems, and Sustainability of Managed Systems. Students who complete the graduate certificate in Sustainability will be expected to:

1. Articulate commonly accepted definitions of sustainability and discuss various nuances among those definitions as well as engage in analytical thinking to enhance sustainability measures;
2. Address real-world problems of sustainability to reinforce their professional interests.
3. Have an understanding of the interdisciplinary nature of sustainability issues, particularly as they pertain to the thematic areas of knowledge addressed by the graduate certificate (sustainability of natural systems, sustainability of managed systems, sustainability of built systems, and sustainability of human social systems);
4. Be conversant regarding acquisition and analysis of data pertinent to measuring sustainability;
5. Communicate orally, and in writing organized thoughts defining sustainability measures and technical aspects of sustainability;
6. Identify potential strategies to address sustainability issues using appropriate analytical methods and data and provide results of analyses of data using novel sustainability metrics and indicators;
7. Make recommendations, based on data analysis and interpretation, to advance sustainability of individuals or institutions.
8. Develop methods, techniques and tools for implementing sustainability initiatives.

**Required Courses**
Students must earn a grade of “B” or better for all courses used to fulfill requirements of the Graduate Certificate in Sustainability.

Elective courses with sustainability focus selected from a broad menu of offerings in four thematic areas:

- Sustainability of Social Systems
- Sustainability of Natural Systems
- Sustainability of Built Systems
- Sustainability of Managed Systems

Elective courses must be completed in at least two thematic areas. In addition, nine of these 12 hours must be in courses numbered 5000 or above.

A complete list of elective courses may be found on the university's Sustainability website (http://sustainability.uark.edu/academics/grad-certificate/certificate-courses.php).

Teaching English to Speakers of Other Languages (TESL)

Felicia Lincoln
Program Coordinator
215 Peabody Hall
479-575-8729
E-mail: flincoln@uark.edu

Description: The program is designed to prepare teachers in the U.S. and abroad to teach English to learners whose first language is not English; graduates are also prepared to create and implement curriculum and appropriate assessments for English as a second language (ESL). It also prepares individuals for further graduate study (Education Specialist or Ph.D.). Included in the course work for the M.Ed. are the four courses required by the Arkansas Department of Education for endorsement in ESL.

Admission Requirements:

1. Students must be officially accepted by the Graduate School and accepted into the M.Ed. TESOL degree program. Once information is reviewed, the Graduate School will submit applicant’s completed packet to the program for review.
2. Students must complete an appropriate undergraduate degree with a minimum 3.0 grade-point average on the last 60 hours of the course work for the undergraduate degree.

Degree Requirements:

1. All degree candidates must post a portfolio to Chalk and Wire that exhibits samples of work from all major required courses. These eight courses are listed below. Chalk and Wire is a portfolio system that is a part of the program's accreditation system.
2. All degree candidates will also complete an action research project during their Internship/Action Research (CIED 5993).
3. All students must complete 33 hours of course work for the graduate certificate.

Major Required Courses

Professional Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIED 523</td>
<td>Second Language Acquisition (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 593</td>
<td>Second Language Methodologies (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 5943</td>
<td>Teaching People of Other Cultures (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 5953</td>
<td>Second Language Assessment (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 5939</td>
<td>Introduction to Linguistics (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 5513</td>
<td>Sound System of American English (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 5543</td>
<td>Structures of American English (Sp, Su)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 599V</td>
<td>Special Topics (Sp, Su, Fa)</td>
<td>1-18</td>
</tr>
</tbody>
</table>

Research Requirements: Students are not required to complete a formal master's thesis, but will take a class (CIED 5013 or CIED 5273) that provides an introduction to education research and then design and carry out an action research project in CIED 5983 Practicum in Curriculum and Instruction. Following this two-course sequence, students will defend their project as the comprehensive exam for the degree. This project will be assessed by a faculty panel which will include the adviser for the student's program and two other M.Ed. faculty members.

For students who have the experience and desire to complete a formal thesis, this option exists. In such cases, students will form a thesis committee and then propose, write and defend a thesis. The successful defense of the thesis will represent the comprehensive exam for the M.Ed. degree. Students who choose the thesis option will not be required to complete CIED 5013/5273 or CIED 5983, but must take six hours of master's thesis credit (CIED 600v) in place of these two courses.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Theatre (THTR)

Faculty

Jason E. Burrow, Assistant Professor
Mavourneen Dwyer, Associate Professor
Kate L. Frank, Lecturer
Amy Herzberg, Professor
Morgan Hicks, Assistant Professor
Shawn D. Irish, Assistant Professor
Michael Landman, Associate Professor
Gail Leftwich, Lecturer
Patricia Martin, Professor
Jennifer Ann McKnight, Instructor
Joseph D. Millett, Visiting Assistant Professor
Michael Riha, Professor
Les Wade, Professor
Weston Wilkerson, Assistant Professor

Michael Riha
Department Chair
619 Kimpel Hall
479-575-3616
E-mail: drama@cavern.uark.edu (drama@cavern.uark.edu)
http://www.uark.edu/depts/drama/

Degrees Conferred:

M.F.A. (DRAM)

The Master of Fine Arts in Theatre provides a course of advanced studies within the areas of acting, directing, design, and playwriting. It aims to develop in students a high level of understanding and competence in the...
chosen degree concentration, leading to professional-level employment in performance and design. Considered to be the terminal degree in the creative aspects of theatre, the M.F.A. program provides a 60-hour concentration in a chosen specialty. The degree is awarded following successful fulfillment of a series of academic and performance/production requirements.

Prerequisites to the M.F.A. Program: A student entering graduate studies in the Department of Theatre should have a minimum of 24 semester hours in undergraduate drama/theatre credit. In the event a student does not satisfy this requirement, the student and an adviser will assess the student’s needs and establish a plan of study that will prepare the student for advanced degree work. The GRE may be required based on the student’s undergraduate GPA in accordance with Graduate School policy.

Admission Procedures: In addition to complying with all Graduate School admission procedures, M.F.A. degree applicants will present an audition and/or portfolio for assessment and evaluation prior to consideration for acceptance.

Degree Requirements: The Master of Fine Arts degree requires 60 hours of approved graduate-level coursework that is focused in one of three study tracks: Performance (Acting and Directing), Playwriting, or Design. Specific course requirements and related production requirements are determined in conference with the particular track adviser. All students will produce a thesis (6 hours credit) prior to graduation. This thesis will take the form of a performance, design or playwriting project with appropriate written research and documentation to support it. Both the proposed thesis project and the final product shall be subject to review and approval by the student’s thesis committee.

Each student will be reviewed annually. Departmental faculty will determine whether sufficient progress has been made to warrant continuation into the subsequent year of study and eventual graduation.

A final examination will be administered to all graduating M.F.A. students. This examination will allow students to demonstrate their knowledge and understanding of theatre at a level appropriate to those who have reached the end of their particular course of studies.

All course credits presented for graduation must be graded “C” or better.

Up to 18 hours of credit may be waived for those students entering the M.F.A. program and already holding the M.A. degree in theatre or drama. However, a minimum of 42 hours of graduate-level courses and four regular semesters must be completed on the Fayetteville campus.

Departmental requirements may be waived by the faculty in theatre only upon receipt of evidence of equivalent learning or skill resulting from earlier education or experience. Students not holding a bachelor’s degree in drama may be required to take supplemental coursework and/or demonstrate proficiency in the creative areas of drama.

Vocational Education (VOED)

See Workforce Development Education in the Department of Rehabilitation, Human Resources and Communication Disorders (p. 164).

Workforce Development Education (WDEd)

See the listing in the Department of Rehabilitation, Human Resources and Communication Disorders (p. 164).

World Languages, Literatures, and Cultures (WLLC) French-German-Spanish Faculty

Erika Almenara, Assistant Professor
Nancy M. Arenberg, Associate Professor
Steven M. Bell, Associate Professor
Nadezda Berkovich, Clinical Assistant Professor
Hope L. Christiansen, Associate Professor
Kathy Comfort, Associate Professor
Kathleen Condray, Associate Professor
David Charles Fredrick, Associate Professor
Tatsuya Fukushima, Associate Professor
Adnan Fuad Haydar, Professor
Amalie August Holland, Instructor
Jennifer M. Hoyer, Associate Professor
Linda Carol Jones, Associate Professor
Daniel Levine, University Professor
Violeta Lorenzo, Assistant Professor
Brenda Monica Magnetti, Instructor
Janice R. North, Visiting Assistant Professor
J. Brian O’Loughlin, Instructor
Luis Fernando Restrepo, University Professor
Louise L. Rozier, Associate Professor
M. Reina Ruiz, Associate Professor
Natalia Borisovna Shchegoleva, Instructor
Iris G. Shepard, Instructor
Brett E. Sterling, Assistant Professor
Alberto Veiga, Clinical Assistant Professor
Rhodora Vennarucci, Lecturer
Gilles André Fernand Viennot, Assistant Professor

Steven Bell
Department Chair
425 Kimpel Hall
479-575-2951
E-mail: sbell@uark.edu

Hope Christiansen
Graduate Coordinator of French
425 Kimpel Hall
479-575-2947
E-mail: hopec@uark.edu

Brett Sterling
Graduate Coordinator of German
425 Kimpel Hall
479-575-2951
E-mail: bsteri@uark.edu

Sergio Villalobos
Graduate Coordinator of Spanish
425 Kimpel Hall
479-575-2951
Degree Conferred:
M.A. (MLAN, SPAN)

Areas of Concentration: French, German, and Spanish. Supporting courses are offered in Greek and Latin.

Primary Areas of Faculty Research: Please refer to the Department of World Languages, Literatures and Cultures website for detailed information on faculty members and their areas of expertise.

Prerequisites to Degree Program: The student must have a B.A. degree or equivalent from an accredited institution with suitable preparation in the chosen foreign language and be accepted by the department. Deficiencies in undergraduate major or prerequisites for advanced courses may be included in the student’s program. The Master of Arts Degree in Modern Languages is offered in two tracks, German and French. The Master of Arts Degree in Spanish is offered in two tracks, Literature and Pedagogy.

Master of Arts Degree in Modern Languages, German Track
The Master of Arts Degree in Modern Languages, German Track offers course work related to the greater German-speaking world, including Germany, Austria, and Switzerland. The program offers a traditional, canon-centered degree in literary history. Students concentrate primarily on courses investigating literary epochs and particular genres that are focused on literary analysis and research.

Graduates of the program generally continue study at the doctoral level at other institutions or complete alternative licensure or the M.A.T. to teach at the secondary level. Doctoral training in cultural studies and translation is also offered in conjunction with the Comparative Literature and Cultural Studies Program.

Requirements for the Master of Arts Degree Modern Languages, German Track: Aside from deficiencies, a minimum of 36 semester hours of course work is required for the degree, six hours of which must be selected from the following courses: WLLC 4023, WLLC 4033, or WLLC 5063. Each candidate must pass a comprehensive examination covering course work and a reading list. Upon admission to this program the candidate will be assigned an adviser who, in consultation with the candidate, will design a suitable program for the candidate. The adviser, in consultation with other members of the department, will select an examination committee for the comprehensive written and oral examinations. Detailed program descriptions, including reading lists and examination procedures, are available from the department.

Students should also be aware of Graduate School requirements with regard to master’s degrees (p. 261).

Master of Arts Degree in Modern Languages, French Track
The Master of Arts degree in Modern Languages, French Track offers course work related to the literary and cultural histories of the greater Francophone world, focusing on France. The program provides advanced preparation in literary analysis and research and offers training for teaching French at the college level, including the most recent technological techniques in teaching foreign languages. Graduates of the program receive a solid preparation to pursue a Ph.D. or to teach at the college or secondary levels. Our comprehensive curriculum enables students to pursue careers in education, government, international organizations and other business opportunities either abroad or within the United States. In conjunction with the Comparative Literature and Cultural Studies program (CLCS), the program contributes to the Master’s and Ph.D. programs for students working in either Francophone literature, translation, French literature or French cultural studies.

Requirements for the Master of Arts Degree in Modern Languages, French Track: Aside from deficiencies, a minimum of 36 semester hours is required for the degree; six of the hours must be selected from the following courses: WLLC 4023, WLLC 4033, WLLC 5063 or other approved WLLC courses. Each M.A. candidate will submit a list of their course work to the graduate adviser before taking the comprehensive exam, which is comprised of a written and an oral exam. The content of the M.A. exam covers course work and the reading list. All course selections must be approved by the graduate adviser.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).

Master of Arts Degree in Spanish
Students pursuing the M.A. degree in Spanish will choose to follow one of two tracks. Track one is a traditional M.A. in Hispanic literature and culture with a strong emphasis on literary analysis. This track is recommended for students likely to pursue work toward a Ph.D. in literature and cultural studies after the completion of the M.A. Track two provides students an alternative track that places more emphasis on coursework in pedagogy, technology in the classroom, and second-language acquisition. This track is recommended more for students interested in teaching language, for students who may likely use the M.A. as a terminal degree in preparation for community college or liberal arts teaching, or for secondary teachers seeking further professional development.

Requirements for the Spanish M.A., Literature Track: Aside from deficiencies, a minimum of 36 hours of graduate course work is required for the degree. All students during their first semester take WLLC 5063 Teaching Foreign Languages on the College Level (Irregular). Students must also take, usually during the first year, a research seminar (SPAN 5703) and present a research paper meeting professional research methods and standards. Each candidate must pass a comprehensive examination covering course work and reading lists on five historical periods of the Hispanic world, including two periods from each tradition (Latin America and Spain) and at least two periods before 1900. The periods of concentration are Colonial, 19th century, 20th/21st century, and U.S. Latino/a for Latin America; and Medieval, Golden Age, 19th century, and 20th century for Spain.

Upon admission to this program, the candidate will be assigned an adviser who, in consultation with the candidate, will design a suitable program for the candidate, following these guidelines. The adviser, in consultation with other members of the department, will select an examination committee for the comprehensive oral and written examinations. Detailed program descriptions, including reading lists and examination procedures, are available from the department.

Requirements for the Spanish M.A., Pedagogy Track: Aside from deficiencies, a minimum of 36 hours of graduate course work is required for the degree. All students during their first semester take WLLC 5063 Teaching Foreign Languages on the College Level (Irregular). Students in the Pedagogy Track will then combine 24-27 hours of coursework in literature and culture, with an additional 6-9 hours of coursework in...
pedagogy, technology in the classroom, and second-language acquisition (typically WLLC 4023, WLLC 4033, and WLLC 575V or SPAN 5703), chosen in consultation with an advisor. Students in the pedagogy track will also be required to pass a comprehensive examination covering course work and reading lists. Pedagogy-track students will complete one exam on pedagogy and technology, and four exams on literature and culture from four historical periods of the Hispanic world, including at least one period from each tradition (Latin American and Spain) and at least one period before 1900. The periods of concentration are Colonial, 19th century, 20th century, and U.S. Latino/a for Latin America; and Medieval, Golden Age, 19th century, and 20th century for Spain.

Upon admission to this program, the candidate will be assigned an adviser who, in consultation with the candidate, will design a suitable program for the candidate, following these guidelines. The adviser, in consultation with other members of the department, will select an examination committee for the comprehensive oral and written examinations. Detailed program descriptions, including reading lists and examination procedures, are available from the department.

Students should also be aware of Graduate School requirements with regard to master's degrees (p. 261).
Graduate School of Business

310 Willard J. Walker Hall
University of Arkansas
Fayetteville, AR 72701

Telephone: 479-575-2851
Fax: 479-575-8721
E-mail: gsb@walton.uark.edu
Web: gsb.uark.edu

Objectives
The Graduate School of Business has as its objective the advancement and dissemination of knowledge in the business and organizational disciplines through scholarly research and excellence in its graduate management education programs.

Admission
Anyone who wishes to earn graduate-level credit, whether as a degree-seeking student or as a non-degree seeking student, must make formal application and be officially admitted by the Graduate School of Business. The Graduate School of Business offers two classifications of admission: Degree Standing and Non-Degree Standing.

1. Degree Standing
The Graduate School of Business shall admit only those applicants to Degree Standing whose enrollment the Graduate School of Business considers will contribute positively to the quality of life and educational programs of the Graduate School of Business. Unlike the Graduate School, students are simultaneously admitted to the Graduate School of Business and a degree program.

2. Non-Degree Standing
The Graduate School of Business will admit applicants to single semester Non-Degree Standing whose enrollment will not lead to a degree.

Application. Applications for admission to the Graduate School of Business must be accompanied by a $40 application fee ($50 for international applicants), which is not refundable and will not apply against the general registration fee if the applicant enrolls. Applicants will not be considered for admission until all required application materials have been received by the Graduate School of Business.

Applicants who are seeking a graduate degree must submit the following items:
1. Application form
2. Application fee ($40 domestic; $50 international)
3. Current resume
4. Three letters of recommendation
5. Official transcripts from each college or university attended
6. Two one-page essays
7. Official GMAT score (M.B.A., M.Acc., and M.I.S.; Ph.D.
   concentrations: Accounting, Finance, Information Systems,
   Management, Marketing, and Supply Chain Management)
9. Official TOEFL or IELTS score (international applicants only)
10. Financial and Supplemental Information form (international applicants only)
11. Educational Summary form (International applicants only)

Applicants are encouraged to use our online application procedure. The application form may be obtained on the Web at http://gsb.uark.edu/, or the application packet may be obtained from and should be submitted directly to the following address:

Graduate School of Business
310 Willard J. Walker Hall
1 University of Arkansas
Fayetteville, AR 72701

Graduate School Of Business

Transcripts: For applicants who desire Degree Standing: It is the responsibility of each applicant who desires full graduate standing to request of each college or university at which the student has previously attended that it send directly to the Graduate School of Business one official copy of the student’s academic record including all courses, grades, and credits attempted and indication of degree(s) earned.

Note: The fact that courses completed at one institution may be included on a transcript from another institution will not suffice; official transcripts must be received from each institution previously attended. All transcripts become the property of the Graduate School of Business and will not be released to the applicant or to any other person, institution or agency. All application materials, including all official transcripts, should be received by the Graduate School of Business by the published application deadline for the program for which the student is applying.

For students previously enrolled or currently enrolled at the University of Arkansas, Fayetteville, the Graduate School of Business obtains transcripts from the Registrar’s Office. For a graduate of the University of Arkansas, Fayetteville (baccalaureate degree), the only transcripts required are those from the University of Arkansas, Fayetteville, and those from each institution attended after completing the University of Arkansas, Fayetteville, degree. Anyone who was previously enrolled, but who is not currently enrolled in the University of Arkansas Graduate School of Business, is considered a “readmission” and is required only to submit an Application for Admission, a $25 processing fee, and official transcripts from institutions attended after the University of Arkansas Graduate School of Business enrollment. (See Classification of Admission: Readmission below.)

Deferred Admission: Admission to the Graduate School of Business is for a specific semester only and admission is not deferred. Applicants who wish to change their date of entry after submitting an application must notify the Graduate School of Business Office. Applicants who have already been admitted but who would like to change their date of entry must request that their application be held for reconsideration. Application materials for applicants who apply for admission, but who do not subsequently enroll, will be retained by the Graduate School of Business Office for one calendar year from the date of the applicant’s original proposed semester of entry. However, applicants must file a new Application for Admission to notify the Graduate School of Business of their request for reconsideration. Applicants who are admitted but who do not enroll for one year or more after admission must resubmit the entire application packet and follow procedures for initial admission.

Admission to Degree Standing: Official notice of the decision concerning admission will be sent from the Graduate School of Business
for admission to the Master of Business Administration, Master of Accountancy, Master of Arts in Economics, and Master of Information Systems programs as well as all Ph.D. programs.

Adviser: At the time of admission to a degree program in the Graduate School of Business, the student is assigned to a major adviser who acts as the adviser throughout the student’s program of study. The appointment of the adviser is made in the student’s major department.

International and Resident Alien Applicants: International applicants and resident aliens must submit a minimum score of 550 on the paper-based Test of English as a Foreign Language (TOEFL), 213 on the computer-based version of the TOEFL, 79 on the Internet-based TOEFL or a minimum score of 6.5 on the International English Language Training System (IELTS) taken within the preceding two years, unless their native language is English, they have received a graduate degree from an accredited U.S. graduate school, or they have demonstrated an acceptable level of language proficiency as defined in the Graduate School Handbook located on the Graduate School Web site. International applicants and resident alien applicants may refer to Admissions of this catalog for additional information related to their application.

Non-Native Speakers of English. All applicants, regardless of citizenship, whose first language is not English, must submit a minimum score of 6.5 on the International English Language Testing System (IELTS) or 79 on the Internet-based Test of English as a Foreign Language (TOEFL) or a 58 on the Pearson Test of English-Academic (PTE-A) taken within the preceding two years, unless they have received a graduate degree from an accredited U.S. graduate school, or they have demonstrated an acceptable level of language proficiency as defined in the Graduate School Handbook located on the Graduate School Web site. Students applying to a Ph.D. program in the Sam M. Walton College of Business must submit one of these tests at the time of admission. Resident aliens must submit a copy of their Resident Alien card with their application.

Additional Language Requirement for Doctoral Students: Doctoral students are normally called upon to teach an undergraduate course at some point during their program. The University of Arkansas and the Walton College of Business are committed to providing quality instruction at the undergraduate level. Non-native speakers of English, regardless of citizenship, even if eligible for a TOEFL waiver, must demonstrate competency in both spoken and written English to be eligible for a graduate assistantship that requires direct contact with students in a teaching or tutorial role, in a traditional classroom setting or via distance education.

Competency in spoken English may be demonstrated by:

Submitting a test score of at least 7 on the IELTS (speaking) sub-test, 26 on the Internet-based TOEFL (speaking) sub-test, 71 on the PTE-A (speaking) sub-test, or “pass” on the Spoken Language Proficiency Test (SLPT) and

Competency in written English may be demonstrated by:

a. Submitting a test score of at least 6.0 on the IELTS (writing) subtest, 26 on the Internet-based TOEFL (writing) subtest, a 4.0 on the GRE, a 4.5 on the GMAT (analytical writing) subtest, a 71 on the PTE-A (writing) subtest, or a 75 on the English Language Proficiency Test (ELPT)

b. Concurrently enrolling in EASL 0033 Reading and Writing II and EASL 0021 Grammar or ELAC 2033 Research Writing for Non-Native Speakers and ELAC 0011 Writing Workshop: Grammar through Editing via placement by test scores (5.5 IELTS writing sub-test, 3 Internet-based TOEFL writing sub-test, 3.5 GRE or 4.0 GMAT analytical writing subtest, 62 PTE-A writing sub-test, or 70 on the ELPT). The Graduate Coordinator or Department Chair must request this option.

In no case will a doctoral student be allowed to teach an undergraduate course without meeting the minimum score requirement on one of the above tests. The Walton College of Business requires that scores demonstrating competency in spoken English be submitted as a part of the application, prior to review by the admissions committee.

English Language Use by Non-Native Speakers. Applicants, regardless of citizenship, whose first language is not English and who are admitted to graduate study at the University of Arkansas, are required to present an acceptable score on one of the following tests: TOEFL (Writing), IELTS (writing), PTE-A (writing), GRE (analytical writing), GMAT (analytical writing) or ELPT (writing). Depending upon exam scores, a student may be required to take one or more EASL course(s) during their first term of study. Students may be required to take the English Language Placement Test (ELPT) prior to the beginning of classes in their first term of study.

Non-native speakers in the following categories are exempt from this requirement, although individual departments may require any of these tests for admission:

1. Graduate students who earned bachelor’s or master’s degrees in U.S. institutions or in foreign institutions where the official and native language is English;
2. Graduate students with an Internet-based TOEFL writing score of 29, IELTS (writing) score of 7.0, or a PTE-A writing score of 80.
3. Graduate students with a 4.5 on the analytical writing portion of the GRE or GMAT.

Diagnostic and placement testing is designed to test students’ ability to use English effectively in an academic setting, and its purpose is to promote the success of non-native speakers in completing their chosen course of study at the University of Arkansas. Test results provide the basis for placement into English as a Second Language (EASL) support courses or course sequences. Courses are offered by the Department of World Languages, Literature, and Cultures for those students whose language skills are diagnosed as insufficient for college work at the level to which they have been admitted (undergraduate or graduate study). Credit in EASL courses does not count toward University of Arkansas degrees. Non-native speakers diagnosed as having language competence sufficient for their level of study will not be required to enroll in EASL courses.

The ELPT is administered by Testing Services during New Student Orientation and there is a $15 charge. Graduate students assessed course work as a result of performance on the ELPT, TOEFL writing, IELTS writing, PTE-A writing, GRE or GMAT analytical writing will be required to complete the EASL course(s) to support initial course work taken in their fields. Graduate departments/degree programs will have the discretion to waive either the requirement for the language evaluation or the required language courses.

TOEFL Waiver for Walton College Professional Graduate Programs.

The publication, “International Student Information,” is available from the Graduate and International Admissions Office, 213 Gearhart Hall, 1 University of Arkansas, Fayetteville, Arkansas 72701.
International applicants to a professional program may petition the Graduate School of Business for a TOEFL waiver if the following criteria are met:

1) Possess H1B, L1, Green Card or work visa equivalent, AND
2) Be 100% employed in the U.S. with English speaking companies for a minimum period of three years

The Program Director (or designee) for the professional program in which the student is seeking admission will interview the applicant and either grant or deny the waiver.

If the TOEFL waiver is denied, in order to be eligible for admission into a professional program, an official TOEFL score meeting Graduate School requirements must be submitted prior to the beginning of the term in which admission is desired.

Classifications of Admission to Graduate Standing

The Graduate School of Business admits students as either degree-seeking or as non-degree-seeking for a single semester. Degree-seeking students are simultaneously admitted to the Graduate School of Business and to the degree program in which they are seeking a degree. Each degree program in the Walton College has its own minimum admissions criteria. Meeting the minimum criteria listed below does not imply that admission will be granted. The minimum requirements for admission to the Graduate School of Business are as follows:

Degree-Seeking/Regular Standing

1. A grade-point average of 2.70 or better (A = 4.00) on all course work taken prior to receipt of a baccalaureate degree from a regionally accredited institution of higher education and an acceptable GMAT or GRE score.
2. A grade-point average of 3.20 or better on the last 60 hours of course work taken prior to the receipt of a baccalaureate degree from a regionally accredited institution of higher education and an acceptable GMAT or GRE score.

Degree-Seeking/Conditional Standing

1. A grade-point average between 2.50 and 2.69 on all course work taken prior to receipt of a baccalaureate degree from a regionally accredited institution of higher education, acceptable GMAT or GRE score.
2. Approval of the Associate Dean for Research and Graduate Programs, on condition that the student makes a cumulative grade-point average of 3.00 or better on the first 12 hours of graduate-level course work in the degree program and meets any other conditions that may be specified by the faculty of the department or program.

Any other consideration for regular admission must be by individual petition to the Associate Dean for Research and Graduate Programs and, where pertinent, a recommendation from the appropriate departmental chair will be considered on its own merits, case by case.

Non-Degree Seeking, Single Semester. Students admitted to a single semester non-degree standing must understand that any enrollment taken in this classification will not normally carry degree credit. Transcripts are not required for applicants seeking this single semester non-degree standing.

Persons who are admitted as non-degree seeking and who subsequently decide to pursue a degree must apply for and be admitted into a degree program by the appropriate admissions committee of the Graduate School of Business.

A non-degree seeking student may take no more than six semester hours of graduate-level courses that can be counted toward the requirements for a master’s degree. Students in the Information Systems ERP Certificate Program (sponsored by SAP America) and the Business Intelligence Certificate (sponsored by SAS Institute) and who are subsequently accepted into the Master of Information Degree Program will be allowed to use up to 12 graduate hours taken as a nondegree seeker toward the MIS degree.

At the time of acceptance into a degree program, the director of the appropriate degree program will recommend to the Graduate School of Business which courses previously taken, if any, are to be accepted in the degree program.

Letter of Good Standing. A graduate student who is in good standing at another regionally accredited institution in the United States may be given admission (non-degree status) to the Graduate School of Business for one semester upon submission of an Application for Admission and a letter of good standing from the dean of the Graduate School at that institution. If, at some time in the future, the student should wish to pursue a degree in the Graduate School of Business or in the University of Arkansas Graduate School, it will be necessary to follow the normal procedures for admission and to have official transcripts sent from each institution previously attended. Graduate courses transferred and used for requirements for a degree at another university cannot be used for a graduate degree at this institution.

Readmission: Readmission to the Graduate School of Business is not automatic.

A student who has not been enrolled during the previous semester (fall or spring) must submit a new application form to the Graduate School of Business along with a $25 processing fee and an official transcript from any institution attended while not enrolled in the Graduate School of Business.

At the time of readmission, the appropriate admissions committee will determine whether to readmit the student and which classes taken during previous enrollments at the Graduate School of Business will be counted toward graduation.

Transfer of Credit. The Graduate School of Business will allow transfer of credit of a maximum of six credit hours under the following circumstances:

1. The hours were earned at an AACSB-accredited school, and
2. The student earned an “A” or “B” in the courses requested for transfer credit, and
3. The master’s program coordinator approves the courses for credit toward a master’s degree.
4. The student must have graduate standing and the course(s) must be graduate level.

Academic Integrity

As a core part of its mission, the University of Arkansas provides students with the opportunity to further their educational goals through programs of study and research in an environment that promotes freedom of inquiry and academic responsibility. Accomplishing this mission is only possible
when intellectual honesty and individual integrity prevail. Each University of Arkansas student is required to be familiar with and abide by the university’s Academic Integrity Policy (http://honesty.uark.edu/policy) at honesty.uark.edu. Students with questions about how these policies apply to a particular course or assignment should immediately contact their instructor.

This page includes information and policies about the following:

- Academic Grievance Procedures for Graduate Students
- Grievance Policy and Procedures for Graduate Assistants
- Research and Scholarly Misconduct Policies and Procedures

**Graduate Student Grievance**

The Graduate School of Business of the Sam M. Walton College of Business Administration recognizes that there may be occasions when a graduate student has a grievance about some aspect of his/her academic involvement. It is an objective of the University of Arkansas that a graduate student may have prompt and formal resolution of his/her academic grievances and that this be accomplished according to orderly procedures. Below are the procedures to be used when a graduate student has an academic grievance with a faculty member or administrator. If the student has a grievance against another student or another employee of the University, or if the student has a grievance that is not academic in nature, the appropriate policy may be found by contacting the Office of Affirmative Action or the Office of the Dean.

**Definition of Terms**

**Graduate Student:** Under this procedure, a graduate student is any person who has been formally admitted to the Graduate School of Business of the Sam M. Walton College of Business Administration of the University of Arkansas, Fayetteville, and who is/was enrolled as a graduate-level student at the time the alleged grievance occurred. (Note: Students pursuing a Ph.D. in Business Administration or in Economics should follow the grievance policy of the Graduate School.)

**Academic Grievance:** An academic grievance is a dispute concerning some aspect of academic involvement arising from an administrative or faculty decision which the graduate student claims is unjust or is in violation of his/her rights. Any behavior on the part of a faculty member or administrator, which the student believes to have interfered with his/her academic progress, is subject to a grievance. While a complete enumeration of the student’s rights with regard to academic involvement is not possible or desirable, we have provided a short list as illustration. However, as in all cases involving individual rights, whether a specific behavior constitutes a violation of these rights can only be decided in context, following a review by a panel of those given the authority to make such a decision.

In general, the graduate student:

1. has the right to competent instruction;
2. is entitled to have access to the instructor at hours other than class times (office hours);
3. is entitled to know the grading system by which he/she will be judged;
4. has the right to evaluate each course and instructor;
5. has the right to be treated with respect and dignity.

In addition, an academic grievance may include alleged violations of the affirmative action plans of the University related to academic policies and regulations, as well as disputes over grades, graduate assistantship employment agreements, course requirements, graduate/degree program requirements, thesis advisory committee composition, and/or adviser decisions.

**Formal Academic Grievance:** An academic grievance is considered formal when the student notifies the Dean of the Walton College, in writing, that he/she is proceeding with such a grievance. The implications of this declaration are: 1) all correspondence pertaining to any aspect of the grievance will be in writing and will be made available to the Dean and his/her designee; 2) all documents relevant to the case, including minutes from all relevant meetings, will be part of the complete written record and will be forwarded to the Dean and his/her designee upon receipt by any party to the grievance; 3) the policy contained herein will be strictly followed; and 4) any member of the academic community who does not follow the grievance policy will be subject to disciplinary actions. Filing a formal academic grievance is a serious matter, and the student is strongly encouraged to seek informal resolution of his/her concerns before taking such a step.

**Complete Written Record:** The “complete written record” refers to all documents submitted as evidence by any party to the complaint, as subject to applicable privacy considerations. (Note: Because the tape recordings of committee meetings may contain sensitive information, including private information pertaining to other students, the tape or verbatim transcription of the tape will not be part of the complete written record. However, general minutes of the meetings, documenting the action taken by the committees, will be part of the record.)

**Working Days:** Working days shall refer to Monday through Friday, excluding official University holidays.

**Procedures**

1. Individuals should attempt to resolve claimed grievances first with the person(s) involved, within the department or program, and wherever possible, without resort to formal grievance procedures. The graduate student should first discuss the matter with the faculty member or administrator involved, with the faculty member’s chairperson or degree program coordinator, or with the Walton College Dean or his/her designee. The student’s questions may be answered satisfactorily during this discussion. If the grievance is with the departmental chairperson or program coordinator, the student may choose to meet with the Walton College Dean or his/her designee for a possible informal resolution of the matter.

2. If a student chooses to file a formal academic grievance, the following procedures are to be followed. The students in the Master of Business Administration (M.B.A.) program shall take the appeal in written form to the M.B.A. Program Director. Students in the departmentally based master’s programs (M.Acc., M.A.Econ., and M.I.S.) shall take the written appeal to the appropriate departmental chairperson. The student shall forward a copy of the written appeal to the Walton College Dean or his/her designee. In the case of a grievance against a departmental chairperson, the M.B.A. Program Director or an administrator who does not report directly to a departmental chairperson, the student will go directly to the Walton College Dean or his/her designee. The appropriate person to receive the written appeal will be referred to as the initial appellate authority. In any case, the Walton College Dean or his/her designee must be notified of the grievance. After discussion between the initial appellate authority (i.e., chairperson/M.B.A. Program Director/Dean and his/her designee) and all parties to the grievance, option 2a, 2b, or 3 may be chosen.
   a. All parties involved may agree that the grievance can be resolved by a recommendation of the initial appellate authority.
In this case, the initial appellate authority will forward a written recommendation to all parties involved in the grievance within 20 working days after receipt of the written grievance. The initial appellate authority is at liberty to use any appropriate method of investigation, including personal interviews and/or referral to an appropriate departmental or program committee for recommendation.

b. Alternatively, any party to the grievance may request that the initial appellate authority at once refer the request, together with all statements, documents, and information gathered in his or her investigation, to the applicable reviewing body. For the M.B.A. Program the applicable reviewing body is the M.B.A. Advisory Committee; for other masters programs it is the relevant program advisory committee. The reviewing body shall, within ten working days from the time its chairperson received the request for consideration, present to the initial appellate authority its written recommendations concerning resolution of the grievance. Within ten working days after receiving these recommendations, the initial appellate authority shall provide all parties to the dispute with copies of the reviewing body’s recommendation and his or her consequent written decision on the matter.

3. If the grievance is not resolved by the procedure outlined in item 2, or if any party to the grievance chooses not to proceed as suggested in item 2, he/she will appeal directly to the Dean of the Walton College or his designee. Whenever a grievance comes to the attention of the Dean, either as a result of a direct appeal or when a grievance has not been resolved satisfactorily at the departmental/program level, the Dean and his/her designee will consult with the person alleging the grievance. If that person decides to continue the formal grievance procedure, the Dean will notify all parties named in the grievance and the relevant program administrator (i.e. departmental chairperson or the M.B.A. Program Director), that a formal grievance has been filed. Within ten working days, the Dean and his/her designee will:
   a. with the consent of the student, appoint a faculty member as the student’s advocate, and
   b. utilize an ad hoc committee of five faculty members and two graduate students, chosen to avoid obvious bias or partiality, to review the grievance and report to him/her. The Walton College Dean or his/her designee will serve as the chair of the grievance committee and will vote only in the case of a tie. A voting member of the Graduate School of Business Masters Program Committee will serve as the non-voting secretary of the committee.

   The committee shall have access to witnesses and records, may take testimony, and may make a record by taping the hearing. Its charge is to develop all pertinent factual information (with the exception that the student and faculty member/administrator will not be required to be present in any meeting together without first agreeing to do so) and, on the basis of this information, to make a recommendation to the Walton College Dean to either support or reject the appeal. The Dean will then make a decision based on the committee’s recommendation and all other documents submitted by the parties involved. The Dean’s decision, the committee’s written recommendation and a copy of its complete written record (excluding those in which other students have a privacy interest) shall be forwarded to the person(s) making the appeal within 20 working days from the date the committee was first convened; copies shall be sent simultaneously to other parties involved in the grievance. The Graduate School of Business, in such a way that the student’s privacy is protected, shall retain a copy.

4. Within ten working days of the receipt of the Walton College Dean’s decision, any party to the grievance may appeal to the Dean of the University of Arkansas Graduate School as described in step 3 of the procedures of Academic Grievance Procedures for Graduate Students in the Graduate School.

5. When, and only when, the grievance concerns a course grade and the committee’s recommendation is that the grade assigned by the instructor should be changed, the following procedure applies. The committee’s recommendation that the grade should be changed shall be accompanied by a written explanation of the reasons for that recommendation and by a request that the instructor change the grade. If the instructor declines, he/she shall provide a written explanation for refusing. The committee, after considering the instructor’s explanation and upon concluding that it would be unjust to allow the original grade to stand, may then recommend to the department chair that the grade be changed. The department chair will provide the instructor with a copy of the recommendation and ask the instructor to change the grade. If the instructor continues to decline, the department chair may change the grade, notifying the instructor, the Walton College Dean or his/her designee, and the student of the action. Only the department chair, and only on recommendation of the committee, may change a grade over the objection of the instructor who assigned the original grade. For courses with a specific M.B.A. program designation (MBAD course number prefix) the Walton College Dean or his/her designee shall fulfill the department chair responsibilities described in this section. No appeal or further review is allowed from this action. All grievances concerning course grades must be filed within one calendar year of receiving that grade.

6. The Master of Arts in Economics is the only Graduate School of Business program with a thesis option. When, and only when, a student in that program brings a grievance concerning the composition of his/her thesis committee, the following procedure will apply. The Walton College Dean or his/her designee shall meet with the graduate student and the faculty member named in the grievance, and shall consult the chair of the committee, the department chairperson, and/or the program coordinator for their recommendations. In unusual circumstances, the Dean and his/her designee may remove a faculty member from a student’s thesis committee or make an alternative arrangement. With regard to the chair of the thesis committee, this is a mutual agreement between the faculty member and the student to work cooperatively on a research project of shared interest. Either the graduate student or the faculty member may dissolve this relationship by notifying the other party, the departmental chairperson, and the Walton College Dean or his/her designee. However, the student and the adviser should be warned that this may require that all data gathered for the thesis be abandoned and a new research project undertaken with a new faculty advisor.

7. If a grievance, other than those covered by step 5, is not satisfactorily resolved through steps 1 through 4 or 6, an appeal in writing and with all relevant material may be submitted for consideration and a joint decision by the Chancellor of the University of Arkansas, Fayetteville, and the Provost/Vice Chancellor for Academic Affairs. This appeal must be filed within 20 working days of receiving the decision of the Dean of the University of Arkansas Graduate School. Any appeal at this level shall be on the basis of the complete written record only, and will not involve interviews with any party to the grievance. The Chancellor of the University of Arkansas, Fayetteville, and the Provost/Vice Chancellor for Academic Affairs shall make a decision on the matter within 20 working days from the receipt of the appeal.
Graduate Assistant Grievance Policy

It is the philosophy of the Graduate School that assistantships are not typical employee positions of the University. This has two implications. First, the sponsor should also serve as a mentor to the student and assist, to the extent possible, in facilitating the student’s progress toward his/her degree. Second, any questions concerning performance in or requirements of assistantships shall be directed to the Graduate School or, for master’s students in business, to the Graduate School of Business. (Note: the term “graduate assistant” will be used to refer to those on other types of appointments as well, such as fellowships, clerkships, etc.)

The Graduate School has the following authority with regard to graduate assistantships:

1. All requests for new positions, regardless of the source of the funds, must be approved by the Graduate School. When the position is approved, the requesting department or faculty member must complete the form, “Request for a New Graduate Assistant Position” and submit it to the Graduate School. All proposed changes in duties for existing graduate assistantships must be approved by the Graduate School prior to their implementation.

2. The duty requirements of the graduate assistantship, including the number of hours required, must be approved by the Graduate School. Fifty percent graduate assistants may not be asked to work more than 20 hours per week (Note: this is not limited to time actually spent in the classroom or lab; the 20 hour requirement also pertains to time required to grade/compute results, develop class/lab materials, etc. Moreover, students cannot be asked to work an average of 20 hours per week, with 30 hours one week and 10 hours the next, for example. The duty hour requirement is no more than 20 hours per week for a 50 percent appointment. See the Graduate Handbook. However, it should also be noted that if the student is engaged in research which will be used in his/her required project, thesis, or dissertation, or if the student is traveling to professional meetings, data sources, etc., the student may work more than 20 hours per week.) The duty requirements must complement the degree program of the graduate student and must abide by the philosophy that the first priority of graduate students is to finish their degrees.

3. The Graduate School, in consultation with the Graduate Council, has the right to set the enrollment requirements for full-time status for graduate assistants.

4. The Graduate School sets the minimum stipend for graduate assistantships, but does not have responsibility for setting the actual stipend. Graduate assistants will be provided with a written statement of the expected duties for their positions, consistent with the duties outlined in the “Request for New Graduate Assistant Position” or any amendments submitted to the Graduate School. A copy of the written statement will be submitted to the Graduate School of Business for inclusion in the student’s file. Graduate assistants may be terminated from their positions at any time or dismissed for cause under the procedures of Board Policy No. 405.1. Termination is effected through the giving of a notice, in writing, of that action at least 60 days in advance of the date the employment is to cease. A copy of the notice must be sent to the Dean of the Walton College and to the Dean of the Graduate School.

A graduate assistant has the right to request a review of the termination by the Dean, following the procedure given below. However, a student should be warned that if the grounds for dismissal are based on any of the following, the only defense to the termination is evidence to show that the charges are not true:

1. The student fails to meet the expectations of the assistantship positions, as outlined in the initial written statement provided to them at the beginning of the appointment.
2. The student provides fraudulent documentation for admission to their degree program and/or to their sponsor in applying for the assistantship positions.
3. The student fails to meet certain expectations which need not be explicitly stated by the sponsor, such as the expectation that a. the student has the requisite English language skills to adequately perform the duties of the position;
   b. the student has the appropriate experience and skills to perform the duties of the position; and
   c. the student maintains the appropriate ethical standards for the position. The Research Misconduct Policy provides one reference source for such ethical standards.
4. The student fails to make good progress toward the degree, as determined by the annual graduate student academic review and defined by program and Graduate School policies.

Definition of Terms

Graduate Assistant. Any graduate student holding a position which requires that the student be admitted to a graduate degree program of the University of Arkansas, regardless of the source of funds, and for whom tuition is paid as a result of that position.

Sponsor. The person responsible for the funding and duty expectations for the graduate assistant.

Formal graduate assistant grievance. Any dispute concerning some aspect of the graduate assistantship, as defined above, which arises from an administrative or faculty decision that the graduate student claims is a violation of his or her rights. The formal graduate assistant grievance does not pertain to cases in which there is a dispute between co-workers.

Violation of graduate assistant’s rights. An action is considered a violation of the graduate assistant’s rights if:

1. it violates Graduate School policy with regard to graduate assistantships;
2. it threatens the integrity of, or otherwise demeans, the graduate student, regardless of any other consideration;
3. it illegally discriminates or asks the graduate assistant to discriminate;
4. it requires the student to do something which was not communicated as a condition of holding the assistantship (or the underlying expectations outlined above);
5. it terminates the student from an assistantship for behaviors which are irrelevant to the holding of the assistantship or were never included as expectations for the assistantship;
6. it requires the student to do something which violates University policy, the law, or professional ethics.

Note: It is impossible to state all of the conditions which might constitute a violation of graduate assistants’ rights or, conversely, which might defend
a respondent against charges of such violations. Such complaints require
a process of information gathering and discussion that lead to a final
resolution of the matter by those who have been given the authority to do
so.

Formal grievance. A grievance concerning graduate assistantships/
fellowships is considered formal when the student notifies the Dean of
the Walton College, in writing, that he/she is proceeding with such a
grievance. The implications of this declaration are: a) the student will
be provided with an advocate; b) all correspondence pertaining to any
aspect of the grievance will be in writing, and will be made available to
the Dean; c) all documents relevant to the case, including minutes from
all relevant meetings, will be part of the complete written record, and will
be forwarded to the Dean upon receipt by any party to the grievance; d)
the policy contained herein will be strictly followed; and e) any member
of the academic community who does not follow the grievance policy
will be subject to disciplinary actions. Filing a formal grievance is a serious
matter, and the student is strongly encouraged to seek informal resolution
of his/her concerns before taking such a step.

Respondent. The person who is the object of the grievance.

Procedures

Note: Grievances are confidential. Information about the grievance,
including the fact that such a grievance has been filed, may never be
made public to those who are not immediately involved in the resolution
of the case, unless the student has authorized this release of information
or has instigated a course of action which requires the respondent to
respond. An exception to this confidentiality requirement is that the
immediate supervisor or departmental chairperson of the respondent will
be notified and will receive a copy of the resolution of the case. Since
grievances against a respondent also have the potential to harm that
person’s reputation, students may not disclose information about the
grievance, including the fact that they have filed a grievance, to any
person not immediately involved in the resolution of the case, until the
matter has been finally resolved. This is not intended to preclude the
student or respondent from seeking legal advice.

1. When a graduate student believes that his/her rights have
been violated, as the result of action(s) pertaining to a graduate
assistantship he/she holds or has held within the past year, the
student shall first discuss his/her concerns with the respondent.
If the concerns are not resolved to the student’s satisfaction, the
student may discuss it with the Dean of the Walton College or his/her
designee, and/or with the Office of Affirmative Action. If the concerns
are satisfactorily resolved by any of the above discussions, the terms
of the resolution shall be reduced to writing, if any of the involved
parties desires to have such a written statement.

2. If the student’s concerns are not resolved by the above discussions,
and he/she chooses to pursue the matter further, the student shall
notify the Dean of the Walton College in writing of the nature of the
complaint. This notification will include all relevant documentation and
must occur within one year from the date of the occurrence. The Dean
of the Walton College will inform the Graduate Dean that a grievance
has been filed and will, upon request, forward the written complaint
and all relevant documentation to the Graduate Dean.

3. Upon receipt of this notification and supporting documentation, the
Dean of the Walton College or the Dean’s designee will meet with
the graduate student. If the student agrees, the Dean or the Dean’s
designee will notify the respondent of the student’s concerns. If the
student does not wish for the respondent to be notified, the matter
will be dropped. The respondent will be given ten working days from
receipt of the Dean’s notification to respond to the concerns.

4. The Dean or the Dean’s designee will meet again with the student
and make an effort to resolve the concerns in a mutually satisfactory
manner. If this is not possible, the Dean will refer the case to a
committee.

5. Within ten working days from the final meeting between the student
and the Dean, the Dean will notify the respondent and will appoint
an ad hoc committee of five faculty members and two graduate
students chosen to avoid bias or partiality. The Associate Dean of
the Walton College or the Dean’s designee will serve as the chair
of the grievance committee and will vote only in the case of a tie.
A voting member of the Walton College Masters Advisory Committee
will serve as the non-voting secretary of the committee. At this time,
the Dean will also assign an advocate to the student. The advocate
must be a member of the graduate faculty. The immediate supervisor
of the respondent will serve as his/her advocate. Note: The student
and respondent advocates will have the responsibility to help the
student/respondent prepare his/her written materials and will attend
committee meetings with the student/respondent. The advocate will
not speak on behalf of the student/respondent and will not take part in
committee discussions of the merits of the case.

6. The committee shall have access to witnesses and records, may take
testimony, and may make a record by taping the hearing. Its charge
is to develop all pertinent factual information (with the exception that
the student and respondent will not be required to be present in any
meeting together without first agreeing to do so) and, on the basis
of this information, to make a recommendation to the Dean of the
Walton College either to support or reject the grievance. The Dean
will then make a decision based on the committee’s recommendation
and all documents submitted by the parties involved. The Dean’s
decision, the committee’s written recommendation, and a copy of
all documents submitted as evidence by any party to the complaint,
consistent with all privacy considerations, shall be forwarded to the
person(s) alleging the grievance within 20 working days from the date
the committee was first convened; copies shall be sent simultaneously
to other parties involved in the grievance. A copy shall be retained by
the Graduate School of Business in such a way that the student’s and
respondent’s privacy is protected.

7. If the decision of the Dean of the Walton College is that the student’s
concerns should be addressed, the respondent may appeal to the
Provost/Vice Chancellor for Academic Affairs of the University, as
outlined below in step 10. It should be noted that the Graduate Dean
has limited authority to require a sponsor to reappoint a graduate
assistant. Consequently, the redress open to the student may be
limited.

8. If the decision of the Dean is that the student’s concerns should not
be addressed, the student may appeal to the Graduate Dean, as
outlined below in step 9.

9. If the grievance is not satisfactorily resolved through step 6, an
appeal in writing and with all relevant material may be submitted
for consideration to the Graduate Dean. This appeal must be filed
within 20 working days of receiving the decision of the Dean of the
Walton College. Any appeal at this level shall be on the basis of the
complete written record and may involve interviews with any party
to the grievance. The Graduate Dean shall make a decision on the
matter within 20 working days from the date of receipt of the appeal.
His/her decision shall be forwarded in writing to the Walton College
Dean, the student, and the respondent.
Research and Scholarly Misconduct Policies and Procedures

I. Introduction

A. General Policy

The University of Arkansas is committed to the highest integrity in research and scholarly activity. Actions which fail to meet this standard can undermine the quality of academic scholarship and harm the reputation of the University. This policy is designed to help ensure that all those associated with the University of Arkansas carry out their research and scholarly obligations in a manner that is consistent with the mission and values of the University, and provides a means of addressing instances of suspected research misconduct should they arise.

Principal investigators are responsible for maintaining ethical standards in the projects they direct and reporting any violations to the appropriate University official. Students charged with academic misconduct are subject to separate disciplinary rules governing students, however, such cases may also be reviewed under these policies if applicable under the provisions stated below. The Research Integrity Officer, in consultation with the student’s dean shall determine which policy is most appropriate in each case.

A charge of research misconduct is very serious, and will be reviewed carefully and thoroughly. Any allegation of research misconduct will be handled as confidentially and expeditiously as possible. Full attention will be given to the rights and responsibilities of all individuals involved. Charges of research misconduct which are determined not to be made in good faith, as provided for in this policy, may result in administrative action against the charging party.

B. Scope

This statement of policy and procedures is intended to carry out the responsibilities of the University of Arkansas, Fayetteville under the Public Health Service (PHS) Policies on Research Misconduct, 42 CFR Part 93 and the research misconduct policies of other funding agencies, as applicable to particular allegations.

This document applies to allegations of research misconduct (as defined below) involving:

- A person who, at the time of the alleged research misconduct, was employed by, was an agent of, or was affiliated by enrolled student status, contract or agreement with the University of Arkansas, Fayetteville; and
- is accused of plagiarism, fabrication, or falsification of research records produced in the course of research, research training or activities related to that research or research training. This includes any research formally proposed, performed, reviewed, or reported, or any document or record generated in connection with such research, regardless of whether an application or proposal for funds resulted in a grant, contract, cooperative agreement, or other form of support.

Severance of the respondent’s relationship with the University, whether by resignation or termination of employment, completion of or withdrawal from studies, or otherwise, before or after initiation of procedures under this policy, will not preclude or terminate research misconduct procedures.

II. Definitions and Standard of Review

Charge. A written allegation of misconduct that triggers the procedures described in this policy.

Complainant. A person who submits a charge of research misconduct.

Deciding Official (DO). The Provost and Vice Chancellor for Academic Affairs who is the institutional official responsible for making determinations, subject to appeal, on allegations of research misconduct and any institutional administrative actions. The Deciding Official will not be the same individual as the Research Integrity Officer and should have no direct prior involvement in the institution’s allegation assessment, inquiry, or investigation. Discussing concerns regarding suspected research misconduct, as provided for in Section IV.A. of this policy, shall not be considered direct prior involvement. If the Deciding Official is unable to serve as DO in a particular matter, the Chancellor may appoint an appropriate official to act as the DO for purposes of that matter.

Good Faith Charge. A charge of research misconduct made by a complainant who believes that research misconduct may have occurred. A charge is not in good faith if it is made with reckless disregard for or willful ignorance of facts that would disprove the charge.

Inquiry. The process under the policy for information gathering and preliminary fact-finding to determine if a charge or apparent instance of research misconduct has substance and therefore warrants an investigation.

Investigation. The process under this policy for the formal examination and evaluation of all relevant facts to determine whether research misconduct has occurred, and, if so, the responsible person and the seriousness of the misconduct.

Investigator. Any person, including but not limited to any person holding an academic or professional staff appointment at the University of Arkansas, who is engaged in the design, conduct, or reporting of research.

ORI. The Office of Research Integrity within the U.S. Department of Health and Human Services.

PHS. The Public Health Service within the U.S. Department of Health and Human Services.

Preponderance of Evidence. Evidence which is of greater weight or more convincing than evidence to the contrary; evidence which shows that something more likely than not is true.
Recklessly. To act recklessly means that a person acts in such a manner that the individual consciously disregards a substantial and unjustifiable risk or grossly deviates from the standard of conduct that a reasonable individual would observe; reckless means more than mere or ordinary negligence.

Research. A systematic investigation designed to develop or contribute to generalizable knowledge. The term includes the search for both basic and applied knowledge and well as training methods by which such knowledge may be obtained.

Research Integrity Officer (RIO) means the Chair of the Research Council who is the institutional official responsible for: (1) assessing allegations of research misconduct to determine if the allegations fall within the definition of research misconduct, are covered by 42 CFR Part 93 or other applicable federal policies, and warrant an inquiry on the basis that the allegation is sufficiently credible and specific so that potential evidence of research misconduct may be identified; (2) overseeing inquiries and investigations; and (3) the other responsibilities described in this policy. If the Research Integrity Officer is unable to serve as RIO in a particular matter, the DO may appoint an appropriate official to act as the RIO for purposes of that matter.

Research Misconduct. Research misconduct means the fabrication, falsification, or plagiarism in proposing, performing, or reviewing research, or in reporting research results.

1. Fabrication is making up data or results and recording or reporting them.
2. Falsification is manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented in the research record.
3. Plagiarism is the appropriation of another person's ideas, processes, results, or words without giving appropriate credit.

Research misconduct does not include disputes regarding honest error or honest differences in interpretations or judgments of data, and is not intended to resolve bona fide scientific disagreement or debate. Research misconduct is also not intended to include "authorship" disputes such as complaints about appropriate ranking of co-authors in publications, presentations, or other work, unless the dispute constitutes plagiarism (as defined above).

Research Record. Any data, document, computer file, computer storage media, or any other written or non-written account or object that reasonably may be expected to provide evidence or information regarding the proposed, conducted, or reported research that constitutes the subject of a charge of research misconduct. A research record includes, but is not limited to, grant or contract applications, whether funded or unfunded; grant or contract progress and other reports; laboratory notebooks; notes; printed or electronic correspondence; memoranda of telephone calls; videos; photographs; X-ray film; slides; biological materials; computer files and printouts; manuscripts and publications; equipment use logs; laboratory procurement records; animal facility records; human and animal subject protocols; consent forms; medical charts; and patient research files.

Respondent. The person against whom a charge of research misconduct is directed, or the person whose actions are the subject of an inquiry or investigation.

A finding of research misconduct requires that:

1. There be a significant departure from accepted practices of the relevant research community; and
2. The research misconduct be committed intentionally, knowingly, or recklessly; and
3. The allegation be proven by a preponderance of the evidence.

This standard and related definitions are restated in the charge to the investigation committee located in section V.E. of this policy.

III. Rights and Responsibilities

A. Research Integrity Officer

The Chair of the Research Council will serve as the RIO who will have primary responsibility for implementation of the institution's policies and procedures on research misconduct. These responsibilities include the following duties related to research misconduct proceedings:

• Consult confidentially with persons uncertain about whether to submit an allegation of research misconduct;
• Receive allegations of research misconduct;
• Assess each allegation of research misconduct in accordance with Section V.A. of this policy to determine whether the allegation falls within the definition of research misconduct and warrants an inquiry;
• As necessary, take interim action and notify ORI of special circumstances, in accordance with Section IV.H. of this policy;
• Sequester research data and evidence pertinent to the allegation of research misconduct in accordance with Section V.C. of this policy and maintain it securely in accordance with this policy and applicable law and regulation;
• Provide confidentiality to those involved in the research misconduct proceeding as required by 42 CFR § 93.108 or other applicable law or regulations, or institutional policy;
• Notify the respondent and provide opportunities for him/her to review/comment/respond to allegations, evidence, and committee reports in accordance with Section III.C. of this policy.
• Inform respondents, complainants, and witnesses of the procedural steps in the research misconduct proceeding;
• Appoint the chair and members of the inquiry and investigation committees, ensure that those committees are properly staffed and that there is expertise appropriate to carry out a thorough and authoritative evaluation of the evidence;
• Determine whether each person involved in handling an allegation of research misconduct has an unresolved personal, professional, or financial conflict of interest and take appropriate action, including recusal, to ensure that no person with such conflict is involved in the research misconduct proceeding;
• In cooperation with other institutional officials, take all reasonable and practical steps to protect or restore the positions and reputations of good faith complainants, witnesses, and committee members and counter potential or actual retaliation against them by respondents or other institutional members;
• Keep the Deciding Official and others who need to know apprised of the progress of the review of the allegation of research misconduct;

• Notify and make reports to ORI or other applicable federal agencies as required by 42 CFR Part 93 or other applicable law or regulations;

• Ensure that administrative actions taken by the institution, ORI, or other appropriate agencies are enforced and take appropriate action to notify other involved parties, such as sponsors, law enforcement agencies, professional societies, and licensing boards of those actions; and

• Maintain records of the research misconduct proceeding and make them available to ORI or other appropriate agencies as applicable in accordance with Section VIII.F. of this policy.

B. Complainant

The complainant is responsible for making allegations in good faith, maintaining confidentiality to the extent permitted by law, and cooperating with the inquiry and investigation. As a matter of good practice, the complainant should be interviewed at the inquiry stage and given the transcript of the interview for comment. The complainant must be interviewed during an investigation, and be given the transcript of the interview for comment. The complainant may be provided for comment with (1) relevant portions of the inquiry report (within a timeframe that permits the inquiry to be completed within 60 days of its initiation); and (2) relevant portions of the draft investigation report. In reviewing reports, the complainant must adhere to time limits set by the corresponding committee for timely completion of the inquiry or investigation.

C. Respondent

The respondent is responsible for maintaining confidentiality and cooperating with the conduct of an inquiry and investigation. The respondent is entitled to:

• A good faith effort from the RIO to notify the respondent in writing at the time of or before beginning an inquiry;

• An opportunity to comment on the inquiry report and have his/her comments attached to the report;

• Be notified of the outcome of the inquiry, and receive a copy of the inquiry report that includes a copy of, or refers to 42 CFR Part 93 or other applicable law or regulations and the institution’s policies and procedures on research misconduct;

• Be notified in writing of the allegations to be investigated within a reasonable time after the determination that an investigation is warranted, but before the investigation begins (within 30 days after the institution decides to begin an investigation), and be notified in writing of any new allegations, not addressed in the inquiry or in the initial notice of investigation, within a reasonable time after the determination to pursue those allegations;

• Be interviewed during the investigation, have the opportunity to correct the recording or transcript, and have the corrected recording or transcript included in the record of the investigation;

• Have a good faith effort made to interview during the investigation any witness who has been reasonably identified by the respondent as having information on relevant aspects of the investigation, have the recording or transcript provided to the witness, have the witness suggest any corrections in the transcript, and have the recording or corrected transcript included in the record of investigation; and

• Receive a copy of the draft investigation report and, concurrently, a copy of, or supervised access to any records or materials on which the report is based, and be notified that any comments must be submitted within 30 days of the date on which the copy was received and that the comments will be considered by the institution and addressed in the final report;

• Appeal the decision of the DO as provided in Section XIII.D.

The respondent should be given the opportunity to admit that research misconduct occurred and that he/she committed the research misconduct. With the advice of the RIO and/or other institutional officials, the Deciding Official may terminate the institution’s review of an allegation that has been admitted, if the institution’s acceptance of the admission and any proposed resolution is approved by ORI or the appropriate federal agency, if required.

D. Deciding Official

The DO will receive the inquiry report and after consulting with the RIO and/or other institutional officials, decide whether an investigation is warranted under this policy, the criteria in 42 CFR § 93.307(d), or other applicable law or regulations. Any finding that an investigation is warranted must be made in writing by the DO and must be provided to ORI or other federal agencies, if required, together with a copy of the inquiry report meeting the requirements of 42 CFR § 93.309, within 30 days of the finding. If it is found that an investigation is not warranted, the DO and the RIO will ensure that detailed documentation of the inquiry is retained for at least 7 years after termination of the inquiry, so that ORI or other applicable agencies may assess the reasons why the institution decided not to conduct an investigation.

The DO will receive the investigation report and, after consulting with the RIO and/or other institutional officials, decide the extent to which this institution accepts the findings of the investigation and, if research misconduct is found, decide what, if any, institutional administrative actions are appropriate. The DO shall ensure that the final investigation report, the findings of the DO and a description of any pending or completed administrative actions are provided to ORI, as required by 42 CFR § 93.315 or to other federal agencies as required by their respective misconduct policies.

IV. General Policies and Principles

A. Responsibility to Report Misconduct

All institutional members will report observed, suspected, or apparent research misconduct to the RIO, the DO, or their designees. Prior to submitting a formal charge, a potential complainant is encouraged to consult informally with the RIO, the DO, or their designees to consider whether the case involves questions of research misconduct, should be resolved by other University procedures, or does not warrant further action. Contact information for the RIO may be obtained from the Office of Research Support and Sponsored Programs or the listing of Research Council members on the Faculty Senate website. If the circumstances described by the individual do not meet the definition of research misconduct, but further action is required, the RIO will refer the individual or allegation to other offices or officials with responsibility for resolving the problem.

At any time, to the extent permitted by law, an institutional member may have confidential discussions and consultations about concerns of possible misconduct with the RIO, the DO, or their designees and will be
counseled about appropriate procedures for reporting allegations and their obligation to cooperate in any inquiry or investigation that may occur.

B. Cooperation with Research Misconduct Proceedings

Institutional members shall cooperate with the RIO and other institutional officials in the review of allegations and the conduct of inquiries and investigations. Institutional members, including respondents, have an obligation to provide evidence relevant to research misconduct allegations to the RIO or other institutional officials.

C. Confidentiality

The RIO shall, as required by 42 CFR § 93.108 or other applicable law or regulation: (1) limit disclosure of the identity of respondents and complainants to those who need to know in order to carry out a thorough, competent, objective and fair research misconduct proceeding; and (2) except as otherwise prescribed by law, limit the disclosure of any records or evidence from which research subjects might be identified to those who need to know in order to carry out a research misconduct proceeding.

D. Conflicts of interest

At each stage of handling an inquiry or subsequent investigation, all persons involved shall be vigilant to prevent any real or perceived conflict of interest, or personal conflicts or relationships between colleagues, from affecting the outcome of the proceedings and resolution of the charges. Possible conflicts of interest may include co-authorship of work within the recent past with any of the individuals directly involved with the alleged misconduct, or professional or personal relationship with the respondent beyond that of mere acquaintances or colleagues. Committee members shall not have had any personal, professional or financial involvement with the matters at issue in the investigation that might create an appearance of bias or actual bias. If such relationships or involvement are present, the individual shall recuse himself or herself from any investigative or decisional role in the case. If any prospective committee member at any point in the process presents a conflict of interest, that committee member shall be replaced by another appointee. If the RIO has a conflict of interest, the DO shall appoint a replacement; if the DO has a conflict of interest, the Chancellor shall appoint a replacement. The RIO may use a written conflict of interest statement to implement this provision; a sample statement is referenced in the Appendix to this policy.

E. Protecting complainants, witnesses, and committee members

Institutional members may not retaliate in any way against complainants, witnesses, or committee members. Institutional members should immediately report any alleged or apparent retaliation against complainants, witnesses or committee members to the RIO, who shall review the matter and, as necessary, make all reasonable and practical efforts to counter any potential or actual retaliation and protect and restore the position and reputation of the person against whom the retaliation is directed.

F. Protecting the Respondent

As requested and as appropriate, the RIO and other institutional officials shall make all reasonable and practical efforts to protect or restore the reputation of persons alleged to have engaged in research misconduct, but against whom no finding of research misconduct is made.

During the research misconduct proceeding, the RIO is responsible for ensuring that respondents receive all the notices and opportunities provided for in 42 CFR Part 93, or other applicable federal policies, and the policies and procedures of the institution.

G. Adviser to the Respondent

The respondent may consult with an adviser, who may or may not be an attorney. The adviser may not be a principal or witness in the case. The adviser may accompany the respondent to proceedings conducted as a part of the research misconduct proceeding, but shall not speak on behalf of the respondent or otherwise participate in the proceedings. The adviser must maintain confidentiality and be available as needed to ensure that all proceedings are completed on a timely basis.

H. Interim Administrative Actions and Notifying ORI or Other Federal Agencies of Special Circumstances

Throughout the research misconduct proceeding, the RIO will review the situation to determine if there is any threat of harm to public health, federal funds and equipment, or the integrity of the research process. In the event of such a threat, the RIO will, in consultation with other institutional officials and ORI or other federal agencies, if applicable, take appropriate interim action to protect against any such threat. Interim action might include additional monitoring of the research process and the handling of federal funds and equipment, reassignment of personnel or of the responsibility for the handling of federal funds and equipment, additional review of research data and results or delaying publication. The RIO shall, at any time during a research misconduct proceeding, consult with appropriate University officials and legal counsel immediately if he/she has reason to believe that any of the following conditions exist:

- Health or safety of the public is at risk, including an immediate need to protect human or animal subjects;
- Federal resources or interests are threatened;
- Research activities should be suspended;
- There is a reasonable indication of possible violations of civil or criminal law;
- Federal action is required to protect the interests of those involved in the research misconduct proceeding;
- The research misconduct proceeding may be made public prematurely and federal action may be necessary to safeguard evidence and protect the rights of those involved; or
- The research community or public should be informed.

Following such consultation, the institution shall take appropriate steps to address such conditions, such as by notifying ORI or other applicable agency.

I. Computation of Time

In this policy, any reference to days shall mean calendar days. Any period of time equal to ten days or fewer shall exclude University holidays. If a deadline falls on a weekend or University holiday, the deadline shall be the next University business day.

J. Procedural Changes

1. Deadlines. Due to the sensitive nature of allegations of misconduct, each case shall be resolved as expeditiously as possible. The nature of some cases may, however, render normal deadlines difficult to meet. If at any time an established deadline cannot be met, a report shall be filed with the DO setting out the reasons why the deadline cannot be met and estimating when that stage of the process will be completed. A copy of
this report shall be provided to the respondent. If PHS funding is involved, an extension must be received from the Office of Research Integrity.

2. Other Procedural Changes. Particular circumstances in an individual case may dictate variation from the procedures set out in this policy in order to ensure fair and efficient consideration of the matter. Any change in the procedures must ensure fair treatment of the respondent. Any major deviations from the procedures described in this policy shall be made only with the written approval of the DO in consultation with the respondent. Any minor deviations from the procedures described in this policy shall not require the written approval of the DO.

K. Exclusive Process

The procedures described in this policy constitute the exclusive process for raising and resolving charges of research misconduct.

V. Conducting the Assessment and Inquiry

A. Assessment of Allegations

Upon receiving an allegation of research misconduct, the RIO will immediately assess the allegation to determine whether it is sufficiently credible and specific so that potential evidence of research misconduct may be identified and further review is warranted. The RIO shall also determine whether the alleged misconduct is within the jurisdictional criteria of 42 CFR § 93.102(b), and whether the allegation falls within the definition of research misconduct in 42 CFR § 93.103. An inquiry must be conducted if these criteria are met. In conducting this assessment, the RIO may consult with the institution’s legal counsel and other appropriate University officials. If a charge is frivolous, does not raise questions of research misconduct, is more appropriately resolved by other University procedures, or does not warrant further action, the RIO may, at his or her discretion, handle the matter informally or refer it to the appropriate person or process, and will notify the complainant and anyone else known to be aware of the charge.

The assessment period should be brief, preferably concluded within a week. In conducting the assessment, the RIO need not interview the complainant, respondent, or other witnesses, or gather data beyond any that may have been submitted with the allegation, except as necessary to determine whether the allegation is sufficiently credible and specific so that potential evidence of research misconduct may be identified and further review is warranted. The RIO shall, on or before the date on which the respondent is notified of the allegation, obtain custody of, inventory, and sequester all research records and evidence needed to conduct the research misconduct proceeding, as provided in paragraph C of this section.

B. Initiation and Purpose of the Inquiry

If the RIO determines that the criteria for an inquiry are met, he or she will immediately initiate the inquiry process. The purpose of the inquiry is to conduct an initial review of the available evidence to determine whether to conduct an investigation. An inquiry does not require a full review of all the evidence related to the allegation.

C. Notice to Respondent; Sequestration of Research Records

At the time of or before beginning an inquiry, the RIO must make a good faith effort to notify the respondent in writing, if the respondent is known. With the approval of the respondent, the RIO will also notify the dean of the school or college in which the respondent holds his or her primary appointment. If the inquiry subsequently identifies additional respondents, they must be notified in writing. On or before the date on which the respondent is notified, or the inquiry begins, whichever is earlier, the RIO must take all reasonable and practical steps to obtain custody of all the research records and evidence needed to conduct the research misconduct proceeding, inventory the records and evidence and sequester them in a secure manner, except that where the research records or evidence encompass scientific instruments shared by a number of users, custody may be limited to copies of the data or evidence on such instruments, so long as those copies are substantially equivalent to the evidentiary value of the instruments. The RIO may consult confidentially with the institution’s legal counsel and other appropriate University officials for advice and assistance in this regard. In addition, if necessary, the RIO may consult with ORI or other applicable federal agency.

D. Appointment of the Inquiry Committee

The RIO, in consultation with other institutional officials as appropriate, shall appoint an inquiry committee and committee chair as soon after the initiation of the inquiry as is practical. The inquiry committee must consist of individuals who do not have unresolved personal, professional, or financial conflicts of interest with those involved with the inquiry and should include individuals with the appropriate scientific expertise to evaluate the evidence and issues related to the allegation, interview the principals and key witnesses, and conduct the inquiry. The RIO shall notify the respondent of the proposed inquiry committee membership. The respondent may then submit a written objection to any appointed member of the inquiry committee based on bias or conflict of interest within seven days. If an objection is raised, the RIO shall determine whether to replace the challenged member with a qualified substitute. The RIO’s decision shall be final. The RIO may, with the concurrence of the DO, appoint one or more experts to assist the inquiry committee if necessary to evaluate specific allegations. The RIO shall direct the members of the committee that the investigation and all information relating to the investigation shall be kept confidential.

E. Charge to the Committee and First Meeting

The RIO will prepare a charge for the inquiry committee that:

- Sets forth the time for completion of the inquiry;
- Describes the allegations and any related issues identified during the allegation assessment;
- States that the purpose of the inquiry is to conduct an initial review of the evidence, including the testimony of the respondent, complainant and key witnesses, to determine whether an investigation is warranted, not to determine whether research misconduct definitely occurred or who was responsible;
- States that an investigation is warranted if the committee determines: (1) there is a reasonable basis for concluding that the allegation falls within the definition of research misconduct and is within the jurisdictional criteria of 42 CFR § 93.102(b), if applicable; and, (2) the allegation may have substance, based on the committee’s review during the inquiry.
- Informs the inquiry committee that they are responsible for preparing or directing the preparation of a written report of the inquiry that meets the requirements of this Policy and 42 CFR § 93.309(a), if applicable.

At the committee’s first meeting, the RIO will review the charge with the committee, discuss the allegations, any related issues, and the appropriate procedures for conducting the inquiry, assist the committee with organizing plans for the inquiry, and answer any questions raised by the committee. The RIO will be present or available throughout the inquiry to advise the committee as needed. Prior to the first meeting, the RIO
shall also consult with legal counsel for the institution as to the need for counsel to provide legal advice to the committee at the first meeting and in subsequent phases of the inquiry, including, but not limited to, for the purpose of reviewing institutional policies governing research misconduct proceedings, confidentiality and potential conflicts of interest.

F. Inquiry Process

The inquiry committee shall interview the complainant and the respondent, and may interview witnesses as well as examine relevant research records and materials. Then the inquiry committee will evaluate the evidence, including the testimony obtained during the inquiry. After consultation with the RIO, the committee members will decide whether an investigation is warranted based on the criteria in this policy and 42 CFR § 93.307(d) as applicable. The scope of the inquiry is not required to and does not normally include deciding whether misconduct definitely occurred, determining definitely who committed the research misconduct or conducting exhaustive interviews and analyses. However, if a legally sufficient admission of research misconduct is made by the respondent, misconduct may be determined at the inquiry stage if all relevant issues are resolved. In that case, the institution shall promptly consult with ORI or other appropriate agencies, as required, to determine the next steps that should be taken. See Section IX.

G. Time for Completion

The inquiry, including preparation of the final inquiry report and the decision of the DO on whether an investigation is warranted, must be completed within 60 days of initiation of the inquiry, unless the RIO determines that circumstances clearly warrant a longer period. If the RIO approves an extension, the inquiry record must include documentation of the reasons for exceeding the 60-day period. The respondent will be notified of the extension.

VI. The Inquiry Report

A. Elements of the Inquiry Report

A written inquiry report must be prepared that includes the following information: (1) the name and position of the respondent; (2) a description of the allegations of research misconduct; (3) the PHS or other federal support, if any, including, for example, grant numbers, grant applications, contracts and publications listing support; (4) the basis for recommending or not recommending that the allegations warrant an investigation; (5) any comments on the draft report by the respondent or complainant. An outline for reports to be furnished to ORI is referenced in the Appendix to this policy.

Institutional counsel shall review the draft inquiry report prior to transmission of the draft to the respondent. Modifications shall be made as appropriate in consultation with the RIO and the inquiry committee. The inquiry report shall include the following information: the names and titles of the committee members and experts who conducted the inquiry; a summary of the inquiry process used; a list of the research records reviewed; summaries of any interviews; and whether any other actions should be taken if an investigation is not recommended.

B. Notification to the Respondent and Opportunity to Comment

The RIO shall notify the respondent whether the inquiry found an investigation to be warranted, together with a copy of the draft inquiry report, and a copy of or reference to 42 CFR Part 93 or other applicable federal policies and the institution’s policies and procedures on research misconduct. The report shall clearly be labeled “DRAFT” in bold and conspicuous type font. The RIO shall notify the respondent that the respondent shall have 10 days to comment on the draft inquiry report. The RIO shall also direct the respondent that the draft report shall be kept confidential.

On a case-by-case basis, the RIO may provide the complainant a copy of the draft inquiry report, or relevant portions of it, for comment. If so, the report shall clearly be labeled “DRAFT” in bold and conspicuous type font, and the complainant will be allowed no more than 10 days to submit comments to the RIO. The complainant shall be directed that the draft report shall be kept confidential.

Any comments that are submitted by the respondent or the complainant shall be attached to the final inquiry report. Based on the comments, the inquiry committee may revise the draft report as appropriate and prepare it in final form. The committee will deliver the final report to the RIO. The RIO shall notify the respondent in writing whether the inquiry found an investigation to be warranted.

C. Institutional Decision and Notification

1. Decision by Deciding Official

The RIO will transmit the final inquiry report and any comments to the DO, who will determine in writing whether an investigation is warranted. The inquiry is completed when the DO makes this determination.

2. Notification to ORI and Respondent

Within 30 days of the DO’s decision that an investigation is warranted, the RIO will provide ORI, if required, with the DO’s written decision and a copy of the inquiry report. The RIO shall also provide a copy of the DO’s written decision and a copy of the inquiry report to the respondent within 30 days of the DO’s decision. Subject to confidentiality, the RIO will also notify those institutional officials, if any, who need to know of the DO’s decision because they will be directly involved in the investigation or otherwise have a need to know because of their official duties. The RIO must provide the following information to ORI, if required, or other applicable federal agency upon request: (1) the institutional policies and procedures under which the inquiry was conducted; (2) the research records and evidence reviewed, transcripts or recordings of any interviews, and copies of all relevant documents; and (3) the charges to be considered in the investigation.

3. Documentation of Decision Not to Investigate

If the DO decides that an investigation is not warranted, the RIO shall secure and maintain for 7 years after the termination of the inquiry sufficiently detailed documentation of the inquiry to permit a later assessment by applicable federal agencies of the reasons why an investigation was not conducted. These documents must be provided to such agencies or their authorized personnel upon request.

VII. Conducting the Investigation

A. Initiation and Purpose

The investigation must begin within 30 days, after the determination by the DO that an investigation is warranted. The purpose of the investigation is to develop a factual record by exploring the allegations in detail and examining the evidence in depth, leading to recommended findings on whether research misconduct has been committed, by whom, and to what extent. The investigation will also determine whether there are additional instances of possible research misconduct that would justify broadening the scope beyond the initial allegations. This is particularly important
where the alleged research misconduct involves clinical trials or potential harm to human subjects or the general public or if it affects research that forms the basis for public policy, clinical practice, or public health practice. The findings of the investigation must be set forth in an investigation report.

B. Notifying ORI and Respondent; Sequestration of Research Records

On or before the date on which the investigation begins, the RIO must: (1) notify the ORI Director of the decision to begin the investigation and provide ORI a copy of the inquiry report, if required; and (2) notify the respondent in writing of the allegations to be investigated. The RIO must also give the respondent written notice of any new allegations of research misconduct within a reasonable amount of time of deciding to pursue allegations not addressed during the inquiry or in the initial notice of the investigation.

The RIO will, prior to notifying respondent of the allegations, take all reasonable and practical steps to obtain custody of and sequester in a secure manner all research records and evidence needed to conduct the research misconduct proceeding that were not previously sequestered during the inquiry. The need for additional sequestration of records for the investigation may occur for any number of reasons, including the institution’s decision to investigate additional allegations not considered during the inquiry stage or the identification of records during the inquiry process that had not been previously secured. The procedures to be followed for sequestration during the investigation are the same procedures that apply during the inquiry.

C. Appointment of the Investigation Committee

The RIO, in consultation with other institutional officials as appropriate, will appoint an investigation committee and the committee chair as soon after the beginning of the investigation as is practical. The investigation committee must consist of at least three individuals who do not have unresolved personal, professional, or financial conflicts of interest with those involved with the investigation and should include individuals with the appropriate scientific expertise to evaluate the evidence and issues related to the allegation, interview the respondent and complainant and conduct the investigation. Individuals appointed to the investigation committee may also have served on the inquiry committee. When necessary to secure the necessary expertise or to avoid conflicts of interest, the RIO may select committee members from outside the institution, or, with concurrence of the DO, may appoint experts to assist the committee in particular aspects of the case. The RIO will notify the respondent of the proposed investigation committee membership and any appointed experts. If the respondent then submits a written objection to any appointed member or expert based on bias or conflict of interest within seven days, the RIO will determine whether to replace the challenged member or expert with a qualified substitute, and the decision of the RIO shall be final.

D. Charge to the Committee and the First Meeting

1. Charge to the Committee

The RIO will define the subject matter of the investigation in a written charge to the committee that:

• Describes the allegations and related issues identified during the inquiry;
• Identifies the respondent;
• Informs the committee that it must conduct the investigation as prescribed in paragraph E. of this section;
• Reviews the definition of research misconduct as stated in this Policy;
• Informs the committee that it must evaluate the evidence and testimony to determine whether, based on a preponderance of the evidence, research misconduct occurred and, if so, the type and extent of it and who was responsible;
• Informs the committee that in order to determine that the respondent committed research misconduct it must find that a preponderance of the evidence establishes that: (1) research misconduct, as defined in this policy, occurred (respondent has the burden of proving by a preponderance of the evidence any affirmative defenses raised, including honest error or a difference of opinion); (2) the research misconduct is a significant departure from accepted practices of the relevant research community; and (3) the respondent committed the research misconduct intentionally, knowingly, or recklessly; and
• Informs the committee that it must prepare or direct the preparation of a written investigation report that meets the requirements of this Policy and any other applicable federal policies, such as 42 CFR § 93.313.

2. First Meeting

The RIO will convene the first meeting of the investigation committee to review the charge, the inquiry report, and the prescribed procedures and standards for the conduct of the investigation, including the necessity for developing a specific investigation plan. The RIO shall also direct the members of the committee that the investigation and all information relating to the investigation shall be kept confidential. The investigation committee will be provided with a copy of this statement of policy and procedures and any applicable federal research misconduct policies. The RIO will be present or available throughout the investigation to advise the committee as needed. Prior to the first meeting, the RIO shall also consult with legal counsel for the institution as to the need for counsel to provide legal advice to the committee at the first meeting and in subsequent phases in the investigation, including, but not limited to, for the purpose of reviewing institutional policies governing research misconduct proceedings, confidentiality and potential conflicts of interest.

E. Investigation Process

The investigation committee and the RIO must:

• Use diligent efforts to ensure that the investigation is thorough and sufficiently documented and includes examination of all research records and evidence relevant to reaching a decision on the merits of each allegation;
• Take reasonable steps to ensure an impartial and unbiased investigation to the maximum extent practical;
• Interview each respondent, complainant, and make a good-faith effort to interview any other available person who has been reasonably identified as having information regarding any relevant aspects of the investigation, including witnesses identified by the respondent, and record or transcribe each interview, provide the recording or transcript to the interviewee for correction, and include the recording or transcript in the record of the investigation; and
• Pursue diligently all significant issues and leads discovered that are determined relevant to the investigation, including any evidence of any additional instances of possible research misconduct, and continue the investigation to completion.

F. Time for Completion

The investigation is to be completed within 120 days of the first meeting of the investigation committee, including conducting the investigation,
preparing the report of findings, providing the draft report for comment and sending the final report to ORI, if applicable. However, if the RIO determines that the investigation will not be completed within this 120-day period, he/she will submit a written request for an extension to the DO and to ORI or other applicable federal agencies, setting forth the reasons for the delay. If the request for an extension is approved by the DO and applicable federal agencies, then the RIO will ensure that periodic progress reports are filed with the approving officials.

G. Amended Charges

If issues of research misconduct that fall outside of the charge arise during the course of the investigation, the committee shall so inform the RIO, including in its communication the evidence on which its concerns are based. The RIO in consultation with the DO and the investigation committee, will consider the issues raised and, in the RIO’s discretion, provide the investigation committee with an amended charge. The respondent shall be notified of any such amendments.

VIII. The Investigation Report

A. Elements of the Investigation Report

The investigation committee and the RIO are responsible for preparing a written draft report of the investigation that:

- Describes the nature of the allegation of research misconduct, including identification of the respondent and the respondent’s curriculum vitae;
- Describes and documents the federal support, if any, including, for example, the numbers of any grants that are involved, grant applications, contracts, and publications listing federal support;
- Describes the specific allegations of research misconduct considered in the investigation;
- Includes the institutional policies and procedures under which the investigation was conducted;
- Identifies and summarizes the research records and evidence reviewed and identifies any evidence taken into custody but not reviewed; and
- Includes a statement of findings for each allegation of research misconduct identified during the investigation. Each statement of findings must: (1) identify whether the research misconduct was falsification, fabrication, or plagiarism, and whether it was committed intentionally, knowingly, or recklessly; (2) summarize the facts and the analysis that support the conclusion and consider the merits of any reasonable explanation by the respondent, including any effort by respondent to establish by a preponderance of the evidence that he or she did not engage in research misconduct because of honest error or a difference of opinion; (3) identify the specific federal support, if any; (4) identify whether any publications need correction or retraction; (5) identify the person(s) responsible for the misconduct; and (6) list any current support or known applications or proposals for support that the respondent has pending with federal agencies.
- If the committee determines that any allegation of research misconduct is true, the report shall recommend appropriate institutional actions in response to the findings of research misconduct.

The report and other retained documentation must be sufficiently detailed as to permit a later assessment of the investigation. An outline for reports to be furnished to ORI is referenced in the Appendix to this Policy.

B. Comments on the Draft Report and Access to Evidence

The RIO must give the respondent a copy of the draft investigation report for comment and, concurrently, a copy of, or supervised access to the evidence on which the report is based. The report shall clearly be labeled “DRAFT” in bold and conspicuous type font. The respondent will be allowed 30 days from the date he/she received the draft report to submit comments to the RIO. The respondent’s comments must be considered and made a part of the final investigation record. The respondent shall be directed that the draft report shall be kept confidential.

On a case-by-case basis, the RIO may provide the complainant a copy of the draft investigation report, or relevant portions of it, for comment. If so, the report shall clearly be labeled “DRAFT” in bold and conspicuous type font, and the complainant will be allowed no more than 30 days from the date on which he/she received the draft report to submit comments to the RIO. The complainant’s comments must be included and considered in the final report. The complainant shall be directed that the draft report shall be kept confidential.

C. Decision by Deciding Official

The RIO will assist the investigation committee in finalizing the draft investigation report, including ensuring that the respondent’s and, if applicable, complainant’s comments are included and considered, and transmit the final investigation report to the DO, who will determine in writing: (1) whether the institution accepts the investigation report, its findings, and the recommended institutional actions; and (2) the appropriate institutional actions in response to the accepted findings of research misconduct. If this determination varies from the findings of the investigation committee, the DO will, as part of his/her written determination, explain in detail the basis for rendering a decision different from the findings of the investigation committee. Alternatively, the DO may return the report to the investigation committee with a request for further fact-finding or analysis. When a final decision on the case has been reached, whether at this stage of after a subsequent appeal, the RIO will notify the respondent in writing. If the DO’s findings are not appealed within ten days, the DO’s findings shall become the institution’s final decision. At the time of a final decision, whether at this stage or after an appeal, the RIO will also notify the complainant in writing of the final outcome of the case. After informing ORI or other applicable federal agency, as required, the DO will determine whether law enforcement agencies, professional societies, professional licensing boards, editors of journals in which falsified reports may have been published, collaborators of the respondent in the work, or other relevant parties should be notified of the outcome of the case. The RIO is responsible for ensuring compliance with all notification requirements of funding or sponsoring agencies.

D. Appeals

The respondent, within ten days of receiving written notification of the decision of the DO, may file an appeal with the Chancellor. The appeal may result in (i) a reversal or modification of the DO’s findings of research misconduct or determinations of institutional action, (ii) the Chancellor may direct the DO to return the report to the investigation committee with a request for further fact-finding or analysis, or (iii) other action the Chancellor deems appropriate. The appeal process must be completed within 120 days of the filing of the appeal unless an extension is granted by appropriate officials and federal agencies. The decision of the Chancellor shall be final.

E. Notice to Federal Agencies of Institutional Findings and Actions
Unless an extension has been granted, the RIO must, within the 120-day period for completing the investigation or the 120-day period for completion of an appeal, submit the following to any applicable federal agencies as required: (1) a copy of the investigation report with all attachments and any appeals; (2) the findings of research misconduct, including who committed the misconduct; (3) a statement of whether the institution accepts the findings of the investigation; and (4) a description of any pending or completed administrative actions against the respondent.

F. Maintaining Records for Review by Federal Agencies

If required, the RIO must maintain and provide to ORI, if required, or other applicable federal agencies upon request “records of research misconduct proceedings” as that term is defined by 42 CFR § 93.317 or other applicable policies, as appropriate. Unless custody has been transferred to an appropriate federal agency or such agency has advised in writing that the records no longer need to be retained, records of research misconduct proceedings must be maintained in a secure manner for 7 years after completion of the proceeding or the completion of any federal proceeding involving the research misconduct allegation. The RIO is also responsible for providing any information, documentation, research records, evidence or clarification requested by ORI or other appropriate federal agency to carry out its review of an allegation of research misconduct or of the institution’s handling of such an allegation.

IX. Completion of Cases; Reporting Premature Closures to Federal Agencies

Generally, all inquiries and investigations will be carried through to completion and all significant issues will be pursued diligently. A case may be closed at the inquiry stage if it is determined that an investigation is not warranted. A case may be closed at the investigation stage if there is a finding that no research misconduct was committed. If the alleged misconduct was in the jurisdiction of the ORI or other federal agency, then this finding must be reported to the applicable agency. An advance notification by the RIO to any applicable federal agency must be made if there are plans to close a case at the inquiry, investigation, or appeal stage on the basis that respondent has admitted guilt, a settlement with the respondent has been reached, or for any other reason except those noted above.

X. Institutional Administrative Actions

If the DO and any subsequent appeal determine that research misconduct is substantiated by the findings, then the DO will decide on the following:

• Withdrawal or correction of all pending or published abstracts and papers emanating from the research where research misconduct was found;
• Removal of the responsible person from the particular project, letter of reprimand, special monitoring of future work, probation, suspension, salary reduction, or initiation of steps leading to possible rank reduction or termination of employment;
• Restitution of funds to the grantor agency as appropriate; and
• Other action appropriate to the research misconduct.

XI. Other Considerations

A. Termination or Resignation Prior to Completing Inquiry or Investigation

The termination of the respondent’s institutional employment, by resignation or otherwise, before or after an allegation of possible research misconduct has been reported, will not preclude or terminate the research misconduct proceeding or otherwise limit any of the institution’s responsibilities under 42 CFR Part 93 or the corresponding research misconduct policies of other federal agencies.

If the respondent, without admitting to the misconduct, elects to resign his or her position after the institution receives an allegation of research misconduct, the assessment of the allegation will proceed, as well as the inquiry and investigation, as appropriate based on the outcome of the preceding steps. If the respondent refuses to participate in the process after resignation, the RIO and any inquiry or investigation committee will use their best efforts to reach a conclusion concerning the allegations, noting in the report the respondent’s failure to cooperate and its effect on the evidence.

B. Restoration of the Respondent’s Reputation

Following a final finding of no research misconduct, including ORI concurrence where required by 42 CFR Part 93 or other federal agencies, if required, the RIO must, at the request of the respondent, undertake all reasonable and practical efforts to restore the respondent’s reputation. Depending on the particular circumstances and the views of the respondent, the RIO should consider notifying those individuals aware of or involved in the investigation of the final outcome, publicizing the final outcome in any forum in which the allegation of research misconduct was previously publicized, and expunging all reference to the research misconduct allegation from the respondent’s personnel file. Any institutional actions to restore the respondent’s reputation should first be approved by the DO.

C. Protection of the Complainant, Witnesses and Committee Members

During the research misconduct proceeding and upon its completion, regardless of whether the institution or ORI determines that research misconduct occurred, the RIO must undertake all reasonable and practical efforts to protect the position and reputation of, or to counter potential or actual retaliation against, any complainant who made allegations of research misconduct in good faith and of any witnesses and committee members who cooperate in good faith with the research misconduct proceeding. The DO will determine, after consulting with the RIO, and with the complainant, witnesses, or committee members, respectively, what steps, if any, are needed to restore their respective positions or reputations or to counter potential or actual retaliation against them. The RIO is responsible for implementing any steps the DO approves.

D. Allegations Not Made in Good Faith

If relevant, the DO will determine whether the complainant’s allegations of research misconduct were made in good faith, or whether a witness or committee member acted in good faith. If the DO determines that there was an absence of good faith he/she will determine whether any administrative action should be taken against the person who failed to act in good faith.

Appendix

A. Summary of Items that must be Reported or Submitted to the ORI in those Cases Covered by 42 CFR Part 93

(Note: This list is subject to modification based on adherence to current ORI regulations.)
• An annual report containing the information specified by ORI on the institution's compliance with the final rule. Section 93.302(b).

• Within 30 days of finding that an investigation is warranted, the written finding of the responsible official and a copy of the inquiry report. Sections 93.304(d), 93.309(a), and 93.310(a) and (b).

• Where the institution has found that an investigation is warranted, the institution must provide to ORI upon request: (1) the institutional policies and procedures under which the inquiry was conducted; (2) the research records and evidence reviewed, transcripts or recordings of any interviews, and copies of all relevant documents; and (3) the charges for the investigation to consider. Section 93.309.

• Periodic progress reports, if ORI grants an extension of the time limits on investigations or appeals and directs that such reports be submitted. Sections 93.311(c) and 93.314(c).

• Following completion of the investigation report or any appeal: (1) a copy of the investigation report with all attachments and any appeals; (2) the findings of research misconduct, including who committed the misconduct; (3) a statement of whether the institution accepts the findings of the investigation; and (4) a description of any pending or completed administrative actions against the respondent. Section 93.315.

• Upon request, custody or copies of records relevant to the research misconduct allegation, including research records and evidence. Section 93.317(c).

• Notify ORI immediately of the existence of any of the special circumstances specified in Section 93.318.

• Any information, documentation, research records, evidence or clarification requested by ORI to carry out its review of an allegation of research misconduct or the institution’s handling of such an allegation. Section 93.400(b).

B. Outline for an Inquiry/Investigation Report for ORI

(Note: A recommended outline for inquiry and investigation reports has been furnished by ORI and is available on the Research Support and Sponsored Programs web site. Committee members should consult this outline in preparing reports. The outline is subject to modification based on adherence to current ORI regulations.)

C. Conflict of Interest Statement

(Note: A sample conflict of interest statement is available on the Research Support and Sponsored Programs web site. This statement shall be provided to the RIO for use in implementing the conflict of interest portions of this policy.)

Registration and Related Topics

The Graduate School’s stance on full-time status is thus: Enrollment in nine semester hours (not including audited courses) is considered full-time for graduate students not on assistantship. For graduate assistants or students with research fellowships on 50 percent appointment or more, six semester hours (not including audited courses) of enrollment is considered full-time in the fall and spring semesters. Graduate assistants who are on a 50% appointment for a six-week summer term must earn at least three hours of graduate credit during the summer. However, these credits do not have to be earned in the same session as the appointment, and may be taken at any time during the summer. Tuition and fees for graduate assistants on 50% appointments for a six-week summer term will be paid up to a maximum of 4 hours. Students not on graduate assistantships or fellowships must be enrolled in six hours (not including audited courses) to be full time in the summer.

The Graduate School of Business adheres to the guidelines as set forth above with the exception of full-time status noted below.

Full-Time Status

Enrollment in 9 semester hours (not including audited courses) is considered full-time for graduate students unless otherwise specified by individual degree programs. For full-time enrollment in the summer, consult the Graduate School Handbook, available on the Graduate School Web site, http://grad.uark.edu/.

Grades and Marks

Final grades for courses are “A,” “B,” “C,” “D,” and “F” (except for courses taken in the Bumpers College of Agricultural, Food, and Life Sciences). No credit is earned for courses in which a grade of “F” is recorded. For students admitted to the Graduate School in Fall 2001 or after no credit is earned for courses in which a grade of “F” or “D” is recorded.

A final grade of “F” shall be assigned to a student who is failing on the basis of work completed but who has not completed all requirements. The instructor may change an “F” so assigned to a passing grade if warranted by satisfactory completion of all requirements.

A mark of “I” may be assigned to a student who has not completed all course requirements, if the work completed is of passing quality. An “I” so assigned may be changed to a grade provided all course requirements have been completed within 12 weeks from the beginning of the next semester of the student’s enrollment after receiving the “I.” If the instructor does not report a grade within the 12-week period, the “I” shall be changed to an “F.” When the mark of “I” is changed to a final grade, this shall become the grade for the semester in which the course was originally taken.

A mark of “AU” (Audit) is given to a student who officially registers in a course for audit purposes (see Registration for Audit).

A mark of “CR” (credit) is given for a course in which the University allows credit toward a degree, but for which no grade points are earned. The mark “CR” is not normally awarded for graduate-level courses but may be granted for independent academic activities. With departmental (or program area) approval and in special circumstances, up to a maximum of six semester hours of “CR” may be accepted toward the requirements for a graduate degree.

A mixing of course letter grades and the mark “CR” is permitted only in graduate-level courses in which instruction is of an independent nature.

A mark of “R” (Registered) indicates that the student registered for master’s thesis or doctoral dissertation. The mark “R” gives neither credit nor grade points toward a graduate degree.

A mark of “S” (Satisfactory) is assigned in courses such as special problems and research when a final grade is inappropriate. The mark “S” is not assigned to courses or work for which credit is given (and thus no grade points are earned for such work). If credit is awarded upon the completion of such work, a grade or mark may be assigned at that time and, if a grade is assigned, grade points will be earned.

A mark of “W” (Withdrawal) will be given for courses from which students withdraw after the first 10 class days of the semester and before the drop deadline of the semester.
For numerical evaluation of grades, “A” is assigned 4 points for each semester hour of that grade; “B,” 3 points; “C,” 2 points; “D,” 1 point; and “F,” 0 points. Grades of plus and minus are assigned grade-point values in the Bumpers College of Agricultural, Food, and Life Sciences.

Academic Dismissal
Students may be dropped from further study in the Graduate School of Business if, at any time, their performance is considered unsatisfactory as determined by either the program faculty or the Associate Dean for Research and Graduate Programs of the Walton College of Business. Academic or research dishonesty or failure to maintain a specified cumulative grade-point average are considered to be unsatisfactory performance. The Graduate School of Business subscribes to and enforces the Academic Integrity Policy (above) of the University of Arkansas.

For students enrolled in the Master of Accountancy, Master of Arts in Economics, Master of Business Administration, or Master of Information Systems degree programs, the following academic standards apply: Whenever a student has less than a 3.00 cumulative grade-point average on graded course work taken in residence for graduate credit, the student will be placed on academic probation and warned of the possibility of academic dismissal. If the student fails to bring his/her cumulative grade-point average up to or above a 3.00 at the conclusion of the next grading period, he/she will be academically dismissed from the program.

For students enrolled in the Master of Business Administration degree program, this additional academic standard applies: Any student who earns more than six hours of grades of “C” or lower in graduate courses taken to fulfill requirements for the Master of Business Administration degree will be academically dismissed.

Using its own written procedures, the graduate faculty of each master’s degree program may recommend that the student be readmitted to the Graduate School of Business. The graduate faculty of the master’s degree programs may establish, and state in writing, the requirements for continuation in that program. Non-degree seeking students who are dismissed may petition for readmission to the Graduate School of Business by submitting a written appeal to the Associate Dean for Research and Graduate Programs.

A cumulative grade-point average of 3.00 is required to be eligible for graduation. Students may take up to an additional six credit-hours of graduate coursework in an effort to raise the cumulative grade-point average to 3.00. Students who repeat a course to raise their grade must count the repetition toward the maximum of six additional hours. All requirements for a master’s degree must be completed within six calendar years.

Annual Notice of Student Rights Under the Family Educational Rights And Privacy Act (FERPA)
The Graduate School of Business adheres to the Family Educational Rights and Privacy Act (FERPA) which affords students certain rights with respect to their education records, described on page 41.

Annual Graduate Student Academic Review
The Graduate School of Business implements the Graduate Council policy that any student whose program lasts more than three semesters will be reviewed annually by his/her degree program for progress toward the degree. At a minimum, the review will cover progress in the following: a) in completing courses with an adequate grade-point average; b) in completing the thesis/dissertation/project requirements; c) in completing all of the required examinations; d) toward completing other requirements for the degree. When the review of each student is completed, the review form will be signed by the graduate student and the department/program head/chair, as well as other appropriate individuals as designated in the program review policy. This review will be forwarded to the Graduate School, to be included in the student’s file.

Administrative Requirement for Graduation
Application for graduation must be completed in the Graduate School of Business office, filed with the Registrar, and fees paid for the semester in which degree requirements will be completed and graduation effected. If a student fails to complete the degree, the student must then renew the application and pay a renewal fee.

Residency Requirements
The Graduate School of Business adheres to the residency requirements established by the Graduate School as described on page 40.

Graduate Student Grievance
The Graduate School of Business of the Sam M. Walton College of Business Administration recognizes that there may be occasions when a graduate student has a grievance about some aspect of his/her academic involvement. It is an objective of the University of Arkansas that a graduate student may have prompt and formal resolution of his/her academic grievances and that this be accomplished according to orderly procedures. Below are the procedures to be used when a graduate student has an academic grievance with a faculty member or administrator. If the student has a grievance against another student or another employee of the University, or if the student has a grievance that is not academic in nature, the appropriate policy may be found by contacting the Office of Affirmative Action or the Office of the Dean.

Definition of Terms
Graduate Student: Under this procedure, a graduate student is any person who has been formally admitted to the Graduate School of Business of the Sam M. Walton College of Business Administration of the University of Arkansas, Fayetteville, and who is/was enrolled as a graduate-level student at the time the alleged grievance occurred. (Note: Students pursuing a Ph.D. in Business Administration or in Economics should follow the grievance policy of the Graduate School.)

Academic Grievance: An academic grievance is a dispute concerning some aspect of academic involvement arising from an administrative or faculty decision which the graduate student claims is unjust or is in violation of his/her rights. Any behavior on the part of a faculty member or administrator, which the student believes to have interfered with his/her academic progress, is subject to a grievance. While a complete enumeration of the student’s rights with regard to academic involvement is not possible or desirable, we have provided a short list as illustration. However, as in all cases involving individual rights, whether a specific behavior constitutes a violation of these rights can only be decided in context, following a review by a panel of those given the authority to make such a decision.

In general, the graduate student:

1. has the right to competent instruction;
2. is entitled to have access to the instructor at hours other than class times (office hours);
3. is entitled to know the grading system by which he/she will be judged;
4. has the right to evaluate each course and instructor;
5. has the right to be treated with respect and dignity.

In addition, an academic grievance may include alleged violations of the affirmative action plans of the University related to academic policies and regulations, as well as disputes over grades, graduate assistantship employment agreements, course requirements, graduate/degree program requirements, thesis advisory committee composition, and/or adviser decisions.

**Formal Academic Grievance:** An academic grievance is considered formal when the student notifies the Dean of the Walton College, in writing, that he/she is proceeding with such a grievance. The implications of this declaration are: 1) all correspondence pertaining to any aspect of the grievance will be in writing and will be made available to the Dean and his/her designee; 2) all documents relevant to the case, including minutes from all relevant meetings, will be part of the complete written record and will be forwarded to the Dean and his/her designee upon receipt by any party to the grievance; 3) the policy contained herein will be strictly followed; and 4) any member of the academic community who does not follow the grievance policy will be subject to disciplinary actions. Filing a formal academic grievance is a serious matter, and the student is strongly encouraged to seek informal resolution of his/her concerns before taking such a step.

**Complete Written Record:** The “complete written record” refers to all documents submitted as evidence by any party to the complaint, as subject to applicable privacy considerations. (Note: Because the tape recordings of committee meetings may contain sensitive information, including private information pertaining to other students, the tape or verbatim transcription of the tape will not be part of the complete written record. However, general minutes of the meetings, documenting the action taken by the committees, will be part of the record.)

**Working Days:** Working days shall refer to Monday through Friday, excluding official University holidays.

**Procedures**

1. Individuals should attempt to resolve claimed grievances first with the person(s) involved, within the department or program, and wherever possible, without resort to formal grievance procedures. The graduate student should first discuss the matter with the faculty member or administrator involved, with the faculty member’s chairperson or degree program coordinator, or with the Walton College Dean or his/her designee. The student’s questions may be answered satisfactorily during this discussion. If the grievance is with the departmental chairperson or program coordinator, the student may choose to meet with the Walton College Dean or his/her designee for a possible informal resolution of the matter.

2. If a student chooses to file a formal academic grievance, the following procedures are to be followed. The students in the Master of Business Administration (M.B.A.) program shall take the appeal in written form to the M.B.A. Program Director. Students in the departmentally based master’s programs (M.Acc., M.A.Econ., and M.I.S.) shall take the written appeal to the appropriate departmental chairperson. The student shall forward a copy of the written appeal to the Walton College Dean or his/her designee. In the case of a grievance against a departmental chairperson, the M.B.A. Program Director or an administrator who does not report directly to a departmental chairperson, the student will go directly to the Walton College Dean or his/her designee. The appropriate person to receive the written appeal will be referred to as the initial appellate authority. In any case, the Walton College Dean or his/her designee must be notified of the grievance. After discussion between the initial appellate authority (i.e. chairperson/M.B.A. Program Director/Dean and his/her designee) and all parties to the grievance, option 2a, 2b, or 3 may be chosen.
   a. All parties involved may agree that the grievance can be resolved by a recommendation of the initial appellate authority. In this case, the initial appellate authority will forward a written recommendation to all parties involved in the grievance within 20 working days after receipt of the written grievance. The initial appellate authority is at liberty to use any appropriate method of investigation, including personal interviews and/or referral to an appropriate departmental or program committee for recommendation.
   b. Alternatively, any party to the grievance may request that the initial appellate authority at once refer the request, together with all statements, documents, and information gathered in his or her investigation, to the applicable reviewing body. For the M.B.A. Program the applicable reviewing body is the M.B.A. Advisory Committee; for other masters programs it is the relevant program advisory committee. The reviewing body shall, within ten working days from the time its chairperson received the request for consideration, present to the initial appellate authority its written recommendations concerning resolution of the grievance. Within ten working days after receiving these recommendations, the initial appellate authority shall provide all parties to the dispute with copies of the reviewing body’s recommendation and his or her consequent written decision on the matter.

3. If the grievance is not resolved by the procedure outlined in item 2, or if any party to the grievance chooses not to proceed as suggested in item 2, he/she will appeal directly to the Dean of the Walton College or his designee. Whenever a grievance comes to the attention of the Dean, either as a result of a direct appeal or when a grievance has not been resolved satisfactorily at the departmental/program level, the Dean and his/her designee will consult with the person alleging the grievance. If that person decides to continue the formal grievance procedure, the Dean will notify all parties named in the grievance and the relevant program administrator (i.e. departmental chairperson or the M.B.A. Program Director), that a formal grievance has been filed. Within ten working days, the Dean and his/her designee will:
   a. with the consent of the student, appoint a faculty member as the student’s advocate, and
   b. utilize an ad hoc committee of five faculty members and two graduate students, chosen to avoid obvious bias or partiality, to review the grievance and report to him/her. The Walton College Dean or his/her designee will serve as the chair of the grievance committee and will vote only in the case of a tie. A voting member of the Graduate School of Business Masters Program Committee will serve as the non-voting secretary of the committee.

The committee shall have access to witnesses and records, may take testimony, and may make a record by taping the hearing. Its charge is to develop all pertinent factual information (with the exception that the student and faculty member/administrator will not be required to be present in any meeting together without first agreeing to do so) and, on the basis of this information, to make a recommendation to the Walton College Dean to either support or reject the appeal. The Dean will then make a decision based on the committee’s recommendation and all other documents
submitted by the parties involved. The Dean’s decision, the committee’s written recommendation and a copy of its complete written record (excluding those in which other students have a privacy interest) shall be forwarded to the person(s) making the appeal within 20 working days from the date the committee was first convened; copies shall be sent simultaneously to other parties involved in the grievance. The Graduate School of Business, in such a way that the student’s privacy is protected, shall retain a copy.

4. Within ten working days of the receipt of the Walton College Dean’s decision, any party to the grievance may appeal to the Dean of the University of Arkansas Graduate School as described in step 3 of the procedures of Academic Grievance Procedures for Graduate Students in the Graduate School.

5. When, and only when, the grievance concerns a course grade and the committee’s recommendation is that the grade assigned by the instructor should be changed, the following procedure applies. The committee’s recommendation that the grade should be changed shall be accompanied by a written explanation of the reasons for that recommendation and by a request that the instructor change the grade. If the instructor declines, he/she shall provide a written explanation for refusing. The committee, after considering the instructor’s explanation and upon concluding that it would be unjust to allow the original grade to stand, may then recommend to the department chair that the grade be changed. The department chair will provide the instructor with a copy of the recommendation and ask the instructor to change the grade. If the instructor continues to decline, the department chair may change the grade, notifying the instructor, the Walton College Dean or his/her designee, and the student of the action. Only the department chair, and only on recommendation of the committee, may change a grade over the objection of the instructor who assigned the original grade. For courses with a specific M.B.A. program designation (MBAD course number prefix) the Walton College Dean or his/her designee shall fulfill the department chair responsibilities described in this section. No appeal or further review is allowed from this action. All grievances concerning course grades must be filed within one calendar year of receiving that grade.

6. The Master of Arts in Economics is the only Graduate School of Business program with a thesis option. When, and only when, a student in that program brings a grievance concerning the composition of his/her thesis committee, the following procedure will apply. The Walton College Dean or his/her designee shall meet with the graduate student and the faculty member named in the grievance, and shall consult the chair of the committee, the department chairperson, and/or the program coordinator for their recommendations. In unusual circumstances, the Dean and his/her designee may remove a faculty member from a student’s thesis committee or make an alternative arrangement. With regard to the chair of the thesis committee, this is a mutual agreement between the faculty member and the student to work cooperatively on a research project of shared interest. Either the graduate student or the faculty member may dissolve this relationship by notifying the other party, the departmental chairperson, and the Walton College Dean or his/her designee. However, the student and the adviser should be warned that this may require that all data gathered for the thesis be abandoned and a new research project undertaken with a new faculty advisor.

7. If a grievance, other than those covered by step 5, is not satisfactorily resolved through steps 1 through 4 or 6, an appeal in writing and with all relevant material may be submitted for consideration and a joint decision by the Chancellor of the University of Arkansas, Fayetteville, and the Provost/Vice Chancellor for Academic Affairs. This appeal must be filed within 20 working days of receiving the decision of the Dean of the University of Arkansas Graduate School. Any appeal at this level shall be on the basis of the complete written record only, and will not involve interviews with any party to the grievance. The Chancellor of the University of Arkansas, Fayetteville, and the Provost/Vice Chancellor for Academic Affairs shall make a decision on the matter within 20 working days from the receipt of the appeal. Their decision shall be forwarded in writing to the same persons receiving such a decision in step 4. Their decision is final pursuant to the delegated authority of the Board of Trustees.

8. If any party to the grievance violates this policy, he/she will be subject to disciplinary action. When alleging such a violation, the aggrieved individual shall contact the Walton College Dean in writing, with an explanation of the violation.

**Graduate Assistant Grievance Policy**

It is the philosophy of the Graduate School that assistantships are not typical employee positions of the University. This has two implications. First, the sponsor should also serve as a mentor to the student and assist, to the extent possible, in facilitating the student’s progress toward his/her degree. Second, any questions concerning performance in or requirements of assistantships shall be directed to the Graduate School or, for master’s students in business, to the Graduate School of Business. (Note: the term “graduate assistant” will be used to refer to those on other types of appointments as well, such as fellowships, clerkships, etc.)

The Graduate School has the following authority with regard to graduate assistantships:

1. All requests for new positions, regardless of the source of the funds, must be approved by the Graduate School. When the position is approved, the requesting department or faculty member must complete the form, “Request for a New Graduate Assistant Position” and submit it to the Graduate School. All proposed changes in duties for existing graduate assistantships must be approved by the Graduate School prior to their implementation.

2. The duty requirements of the graduate assistantship, including the number of hours required, must be approved by the Graduate School. Fifty percent graduate assistants may not be asked to work more than 20 hours per week (Note: this is not limited to time actually spent in the classroom or lab; the 20 hour requirement also pertains to time required to grade/compute results, develop class/lab materials, etc. Moreover, students cannot be asked to work an average of 20 hours per week, with 30 hours one week and 10 hours the next, for example. The duty hour requirement is no more than 20 hours per week for a 50 percent appointment. See the Graduate Handbook. However, it should also be noted that if the student is engaged in research which will be used in his/her required project, thesis, or dissertation, or if the student is traveling to professional meetings, data sources, etc., the student may work more than 20 hours per week.) The duty requirements must complement the degree program of the graduate student and must abide by the philosophy that the first priority of graduate students is to finish their degrees.

3. The Graduate School, in consultation with the Graduate Council, has the right to set the enrollment requirements for full-time status for graduate assistants.

4. The Graduate School sets the minimum stipend for graduate assistantships, but does not have responsibility for setting the actual stipend. Graduate assistants will be provided with a written statement
of the expected duties for their positions, consistent with the duties outlined in the “Request for New Graduate Assistant Position” or any amendments submitted to the Graduate School. A copy of the written statement will be submitted to the Graduate School of Business for inclusion in the student’s file. Graduate assistants may be terminated from their positions at any time or dismissed for cause under the procedures of Board Policy No. 405.1. Termination is effected through the giving of a notice, in writing, of that action at least 60 days in advance of the date the employment is to cease. A copy of the notice must be sent to the Dean of the Walton College and to the Dean of the Graduate School.

A graduate assistant has the right to request a review of the termination by the Dean, following the procedure given below. However, a student should be warned that if the grounds for dismissal are based on any of the following, the only defense to the termination is evidence to show that the charges are not true:

1. The student fails to meet the expectations of the assistantship positions, as outlined in the initial written statement provided to them at the beginning of the appointment.
2. The student provides fraudulent documentation for admission to their degree program and/or to their sponsor in applying for the assistantship positions.
3. The student fails to meet certain expectations which need not be explicitly stated by the sponsor, such as the expectation that
   a. the student has the requisite English language skills to adequately perform the duties of the position;
   b. the student has the appropriate experience and skills to perform the duties of the position; and
   c. the student maintains the appropriate ethical standards for the position. The Research Misconduct Policy provides one reference source for such ethical standards.
4. The student fails to make good progress toward the degree, as determined by the annual graduate student academic review and defined by program and Graduate School policies.

**Definition of Terms**

Graduate Assistant. Any graduate student holding a position which requires that the student be admitted to a graduate degree program of the University of Arkansas, regardless of the source of funds, and for whom tuition is paid as a result of that position.

Sponsor. The person responsible for the funding and duty expectations for the graduate assistant.

Formal graduate assistant grievance. Any dispute concerning some aspect of the graduate assistantship, as defined above, which arises from an administrative or faculty decision that the graduate student claims is a violation of his or her rights. The formal graduate assistant grievance does not pertain to cases in which there is a dispute between co-workers.

Violation of graduate assistant’s rights. An action is considered a violation of the graduate assistant’s rights if:

1. it violates Graduate School policy with regard to graduate assistantships;
2. it threatens the integrity of, or otherwise demeans, the graduate student, regardless of any other consideration;
3. it illegally discriminates or asks the graduate assistant to discriminate;
4. it requires the student to do something which was not communicated as a condition of holding the assistantship (or the underlying expectations outlined above);
5. it terminates the student from an assistantship for behaviors which are irrelevant to the holding of the assistantship or were never included as expectations for the assistantship;
6. it requires the student to do something which violates University policy, the law, or professional ethics.

Note: It is impossible to state all of the conditions which might constitute a violation of graduate assistants’ rights or, conversely, which might defend a respondent against charges of such violations. Such complaints require a process of information gathering and discussion that lead to a final resolution of the matter by those who have been given the authority to do so.

**Formal grievance**. A grievance concerning graduate assistantships/fellowships is considered formal when the student notifies the Dean of the Walton College, in writing, that he/she is proceeding with such a grievance. The implications of this declaration are: a) the student will be provided with an advocate; b) all correspondence pertaining to any aspect of the grievance will be in writing, and will be made available to the Dean; c) all documents relevant to the case, including minutes from all relevant meetings, will be part of the complete written record, and will be forwarded to the Dean upon receipt by any party to the grievance; d) the policy contained herein will be strictly followed; and e) any member of the academic community who does not follow the grievance policy will be subject to disciplinary actions. Filing a formal grievance is a serious matter, and the student is strongly encouraged to seek informal resolution of his/her concerns before taking such a step.

Respondent. The person who is the object of the grievance.

**Procedures**

Note: Grievances are confidential. Information about the grievance, including the fact that such a grievance has been filed, may never be made public to those who are not immediately involved in the resolution of the case, unless the student has authorized this release of information or has instigated a course of action which requires the respondent to respond. An exception to this confidentiality requirement is that the immediate supervisor or departmental chairperson of the respondent will be notified and will receive a copy of the resolution of the case. Since grievances against a respondent also have the potential to harm that person’s reputation, students may not disclose information about the grievance, including the fact that they have filed a grievance, to any person not immediately involved in the resolution of the case, until the matter has been finally resolved. This is not intended to preclude the student or respondent from seeking legal advice.

1. When a graduate student believes that his/her rights have been violated, as the result of action(s) pertaining to a graduate assistantship he/she holds or has held within the past year, the student shall first discuss his/her concerns with the respondent. If the concerns are not resolved to the student’s satisfaction, the student may discuss it with the Dean of the Walton College or his/her designee, and/or with the Office of Affirmative Action. If the concerns are satisfactorily resolved by any of the above discussions, the terms of the resolution shall be reduced to writing, if any of the involved parties desires to have such a written statement.
2. If the student’s concerns are not resolved by the above discussions, and he/she chooses to pursue the matter further, the student shall notify the Dean of the Walton College in writing of the nature of the
complaint. This notification will include all relevant documentation and must occur within one year from the date of the occurrence. The Dean of the Walton College will inform the Graduate Dean that a grievance has been filed and will, upon request, forward the written complaint and all relevant documentation to the Graduate Dean.

3. Upon receipt of this notification and supporting documentation, the Dean of the Walton College or the Dean’s designee will meet with the graduate student. If the student agrees, the Dean or the Dean’s designee will notify the respondent of the student’s concerns. If the student does not wish for the respondent to be notified, the matter will be dropped. The respondent will be given ten working days from receipt of the Dean’s notification to respond to the concerns.

4. The Dean or the Dean’s designee will meet again with the student and make an effort to resolve the concerns in a mutually satisfactory manner. If this is not possible, the Dean will refer the case to a committee.

5. Within ten working days from the final meeting between the student and the Dean, the Dean will notify the respondent and will appoint an ad hoc committee of five faculty members and two graduate students chosen to avoid bias or partiality. The Associate Dean of the Walton College or the Dean’s designee will serve as the chair of the grievance committee and will vote only in the case of a tie. A voting member of the Walton College Masters Advisory Committee will serve as the non-voting secretary of the committee. At this time, the Dean will also assign an advocate to the student. The advocate must be a member of the graduate faculty. The immediate supervisor of the respondent will serve as his/her advocate. Note: The student and respondent advocates will have the responsibility to help the student/respondent prepare his/her written materials and will attend committee meetings with the student/respondent. The advocate will not speak on behalf of the student/respondent and will not take part in committee discussions of the merits of the case.

6. The committee shall have access to witnesses and records, may take testimony, and may make a record by taping the hearing. Its charge is to develop all pertinent factual information (with the exception that the student and respondent will not be required to be present in any meeting together without first agreeing to do so) and, on the basis of this information, to make a recommendation to the Dean of the Walton College either to support or reject the grievance. The Dean will then make a decision based on the committee’s recommendation and all documents submitted by the parties involved. The Dean’s decision, the committee’s written recommendation, and a copy of all documents submitted as evidence by any party to the complaint, consistent with all privacy considerations, shall be forwarded to the person(s) alleging the grievance within 20 working days from the date the committee was first convened; copies shall be sent simultaneously to other parties involved in the grievance. A copy shall be retained by the Graduate School of Business in such a way that the student’s and respondent’s privacy is protected.

7. If the decision of the Dean of the Walton College is that the student’s concerns should be addressed, the respondent may appeal to the Provost/Vice Chancellor for Academic Affairs of the University, as outlined in step 10. It should be noted that the Graduate Dean has limited authority to require a sponsor to reappoint a graduate assistant. Consequently, the redress open to the student may be limited.

8. If the decision of the Dean is that the student’s concerns should not be addressed, the student may appeal to the Graduate Dean, as outlined below in step 9.

9. If the grievance is not satisfactorily resolved through step 6, an appeal in writing and with all relevant material may be submitted for consideration to the Graduate Dean. This appeal must be filed within 20 working days of receiving the decision of the Dean of the Walton College. Any appeal at this level shall be on the basis of the complete written record and may involve interviews with any party to the grievance. The Graduate Dean shall make a decision on the matter within 20 working days from the date of receipt of the appeal. His/her decision shall be forwarded in writing to the Walton College Dean, the student, and the respondent.

10. Either party to the grievance may appeal the decision of the Graduate Dean by appealing to the Provost/Vice Chancellor for Academic Affairs of the University of Arkansas. The appeal must be submitted in writing and with all relevant material attached. This appeal must be filed within 20 working days of receiving the decision of the Graduate Dean. Any appeal at this level shall be on the basis of the complete written record only and will not involve interviews with any party to the grievance. The Provost/Vice Chancellor for Academic Affairs shall make a decision on the matter within 20 working days from the date of receipt of the appeal. His/her decision shall be forwarded in writing to the Graduate Dean, the Dean of the Walton College, the student and the respondent. This decision is final.

11. If any party to the grievance violates this policy, he/she will be subject to either losing the assistantship position or losing the assistantship. When alleging such a violation, the aggrieved individual shall contact the Walton College Dean or the Graduate Dean, in writing, with an explanation of the violation.

**Degrees Offered**

*The faculty of the Graduate School, under the authorization of the Board of Trustees, grants the following degrees offered by the Graduate School of Business. The graduate faculty, as represented by the Dean of the Graduate School and through the Graduate Council, has primary responsibility for the development, operating policies, administration, and quality of these programs. Operating through the Graduate Dean, the faculty appoints committees that directly supervise the student’s program of study and committees, which, in turn, monitor research activities and approve theses and dissertations.*

- **Doctor of Philosophy in Economics**
- **Doctor of Philosophy in Business Administration:**
  - **Concentration Areas:**
    - Accounting
    - Information Systems
    - Finance
    - Management
    - Marketing
    - Supply Chain Management
- **Master of Accountancy**
- **Master of Arts in Economics**
- **Master of Business Administration**
- **Master of Information Systems**
- **Graduate Certificate in Business**
- **Graduate Certificate in Enterprise Systems**
- **Graduate Certificate in Entrepreneurship**

**Overview – Master’s Degrees in the Sam M. Walton College of Business**
Each master’s degree in the Sam M. Walton College of Business is designed to prepare a student for a career in the professional world of business. The programs provide a broad-based education where critical thinking, creative problem solving and professional resolve are encouraged. Much of the curriculum is team-based, simulating experience in the corporate environment. Successful students have demonstrated potential for growth, maturity, motivation and leadership.

Overview – Ph.D. Programs in the Sam M. Walton College of Business

The Ph.D. programs in Business Administration and Economics are designed primarily to prepare individuals for teaching, research, service, and collegial roles in academic and research institutions. The degree programs provide: a) an exposure to the functional areas of business, b) intensive study of the relevant body of knowledge in a focused area, and c) skills and tools to conduct research in that area.

Through an agreement with the Academic Common Market, residents of certain Southern states may qualify for graduate enrollment in this Ph.D. degree program (with the emphasis in accounting) as in-state students for fee purposes. Please see the Graduate School’s website for general information regarding the declaration of intent, candidacy examinations, dissertation requirements, and final examinations.

An M.B.A. or other appropriate master’s degree is generally required for admission. Individuals admitted to the program may be required to take additional courses in accounting, business law, computer information systems, statistics, finance, economics, management, or marketing. The additional courses will be determined by the advisor in the student’s concentration with the approval of the Sam M. Walton College of Business Associate Dean for Research and Graduate Programs.

Students apply for admission to one of the following concentrations:

- Accounting
- Information Systems
- Finance
- Management
- Marketing
- Supply Chain Management

Requirements for the Ph.D. Programs in the Sam M. Walton College of Business:

1. Course work and seminars: The requirements for the Ph.D. in Business Administration and Ph.D. in Economics will consist of a program of research, appropriate course work, seminars, and independent study as specified by the student’s program.
2. Comprehensive Examination: Satisfactory completion of a comprehensive examination in the concentration is required.
3. Dissertation: A dissertation will be written and successfully defended in the concentration.

Accounting (ACCT)

Faculty

T. J. Atwood, Associate Professor
Ken Bills, Assistant Professor
Cory A. Cassell, Associate Professor
Mandy French, Instructor
William Karl Greenhaw, Instructor
Susan Jurney, Clinical Assistant Professor

Sami Keskek, Assistant Professor
Charles Joseph Leflar, Clinical Professor, BKD Lectureship in Accounting
John Martel Norwood, Professor, Nolan E. Williams Lecturer in Accounting
Gary F. Peters, Professor, Doris M. Cook Chair in Accounting
Karen V. Pincus, Professor, Doyle Z. and Maynette Derr Williams Chair in Professional Accounting
Vernon J. Richardson, Distinguished Professor, S. Robson Walton Chair in Accounting
Jonathan Shipman, Assistant Professor
Katie Terrell, Instructor

Vernon Richardson
Department Chair and S. Robson Walton Chair in Accounting
447 Walton College of Business
479-575-4051

Cory Cassell
Ph.D. Program Director
456 Walton College of Business
479-575-4051

Gary Peters
M.Acc. Program Director
447 Walton College of Business
479-575-4051

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Degrees Conferred:

Ph.D. in Business Administration (BADM)
Master of Accountancy

The Master of Accountancy (M.Acc.) program is accredited by the AACSB International – The Association to Advance Collegiate Schools of Business. AACSB accreditation assures quality and promotes excellence and continuous improvement in undergraduate and graduate education for business administration and accounting.

The Master of Accountancy program provides rigorous preparation at the graduate level for students to achieve success in their chosen career path in public practice, industry, or government. Students entering the program are expected to have an undergraduate degree or significant background in accounting. Building on the knowledge developed as an
undergraduate, the M.Acc. courses broaden, extend, and integrate the student’s knowledge. Students completing the M.Acc. program develop the following skills: 1) Research: Students will be able to access, assess, and apply the appropriate standards, regulations, or other information needed to address accounting and business problems. 2) Risk Analysis: Students will understand business risk, how it affects decisions and how to create strategies to mitigate risk. 3) Problem Solving and Decision Making: Students will be able to identify problems, consider alternative solutions, analyze the pros and cons of each alternative and support their conclusions. The M.Acc. program is a full-time program designed to be completed in one year.

Admission Requirements: The M.Acc. program is open to students who have an acceptable undergraduate grade-point average, an acceptable Graduate Management Admission Test (GMAT) score, and (international students only) an acceptable TOEFL or IELTS score. Students entering the program are expected to have completed undergraduate coursework in statistics, mathematics, information systems, accounting, and business. Prior courses must either have been successfully completed within the five years prior to entry to the M.Acc. program, or the student must provide other evidence of current knowledge in these areas. Otherwise, applicants may be required to repeat or complete selected courses, in addition to their degree coursework.

Requirements for the Master of Accountancy Degree: Students with appropriate backgrounds in business administration and economics and with an undergraduate concentration in accounting will be required to complete 30 semester hours of course work beyond the baccalaureate degree.[GFP1]

Ordinarily, students must be enrolled for a minimum of 12 hours during consecutive fall/spring semesters.

Eighteen semester hours of accounting are required, 12 hours of which are specified:

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<td>3</td>
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<tr>
<td>ACCT 5953</td>
<td>Auditing Standards (Fa)</td>
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<td>ACCT 5463</td>
<td>Financial Statement Analysis (Sp)</td>
<td>3</td>
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<tr>
<td>ACCT 5873</td>
<td>Advanced Taxation (Fa)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

A minimum of six semester hours of the student’s program must be non-accounting electives. Six semester hours may be either accounting or non-accounting electives.

To ensure that students acquire the skills necessary for career success, the M.Acc program strongly encourages all students to obtain additional training directly related to the M.Acc program prior to graduation. Students are strongly encouraged, but not required, to complete an accounting internship for academic credit, ACCT 535V. The M.Acc program considers this training an integral part of the curriculum that allows for the practical application of the theoretical principles taught in accounting courses.

A student may transfer to the M.Acc. program not more than six hours of graduate level credit from an AACSB-accredited graduate program, provided that each course has a grade of “B” or better, and the courses are acceptable to the departmental M.Acc. committee. Students contemplating transfer of credit should consult in advance with both the M.Acc. Adviser and the Graduate School of Business.

A cumulative grade-point average of 3.00 is required on 1) graduate work taken for the degree and 2) all accounting courses (both undergraduate and graduate) taken for the degree. At least 75 percent of the graduate credit hours submitted for the degree must be “A” or “B” grades. The M.Acc. degree program does not require a thesis. Successful completion of a Master of Accountancy Degree from the University of Arkansas will qualify a student to take relevant professional examinations.

For further information, contact the Graduate School of Business: gsb@walton.uark.edu.

B.S.B.A./M.Acc.: Integrated Program

The integrated program to the Master of Accountancy is a five-year program of undergraduate and graduate coursework that allows outstanding students to earn the B.S.B.A. and the Master of Accountancy (M.Acc.) degrees at the same time. The professional curriculum, which usually begins in the student’s junior year, includes specially designed accounting courses taught in relatively small classes by full-time faculty members. Students accepted into the integrated degree program may concurrently enroll in undergraduate and graduate level courses.

Because M.Acc. graduates are expected to become leaders in the accounting profession, highly motivated students with the personal qualities and intellectual capacity to establish successful careers in public accounting, industry, not-for-profit organizations, and higher education are encouraged to apply.

Admission

Students are admitted to the integrated program according to the following requirements. Admission is granted only for the fall semester; February 15 of the Junior year is the application deadline for those who wish to begin the integrated program the following fall. Students interested in this program must have completed 90 credit hours of study towards the baccalaureate degree (including ACCT 2013, ACCT 3723 and ACCT 3843) by the February 15 deadline.

Acceptance into the integrated program is based upon the discretion of the admissions committee. The committee considers the overall quality of the applications, including the overall grade point average, the grades in ACCT 2013, ACCT 3723 and ACCT 3843, and the Graduate Management Admission Test (GMAT), as well as other relevant examples of academic ability and leadership. To receive serious consideration by the admissions committee, a student should have a minimum GPA of 3.0 within the applicant’s overall university and accounting coursework. Due to the demand for seats in the program, the admissions committee selectively restricts admission into the program based upon the availability of instructional resources. Students must complete at least two long-session semesters in residence in the M.Acc. program.

Transfer students will be handled on a case-by-case basis.

Satisfactory Progress

Students are expected to make continuous progress toward the degree by completing required accounting coursework each semester. Students who fail to meet the requirements for the M.Acc. program must choose another major of study or finalize their B.S.B.A. in Accounting. Students will be notified before this action is taken and should meet with an academic advisor in the Undergraduate Programs Office upon notification.

Probation

A student is placed on probation if his or her grade point average in core undergraduate accounting courses falls below 3.00. Except with the
consent of the M.Acc. Program Director a student on probation may not take graduate accounting courses.

Graduation
To receive an integrated B.S.B.A/M.Acc. degree, a student must have a grade point average of at least 3.00 in all coursework taken as part of the minimum thirty hour M.Acc. degree. He or she must also have a grade point average in graduate accounting coursework of at least 3.00.

Degree Requirements
The requirements of B.S.B.A./M.Acc. Integrated program are:

1. Undergraduate coursework
   a. Complete the requirements for the B.S.B.A. degree requirements and Accounting Major Requirements detailed above.
   b. Students are strongly encouraged, but not required, to participate in an accounting internship, ACCT 310V.

2. Graduate coursework
Students with appropriate backgrounds in business administration and economics and with an undergraduate concentration in accounting will be required to complete 30 semester hours of course work beyond the baccalaureate degree, at least 21 semester hours of which must be in courses reserved exclusively for graduate students.

A minimum of 18 semester hours of accounting are required, 12 hours of which are specified:

- ACCT 5413 Advanced Financial Accounting (Sp) 3
- ACCT 5433 Fraud Prevention and Detection (Sp) 3
- ACCT 5953 Auditing Standards (Fa) 3
- ACCT 5873 Advanced Taxation (Fa) 3

A minimum of six semester hours of the student’s graduate program must be non-accounting electives.

The M.Acc. degree program does not require a thesis. Successful completion of integrated B.S.B.A/M.Acc program from the University of Arkansas will qualify a student to take relevant professional examinations.

For further information, write to the M.Acc. Adviser, Department of Accounting, Walton College of Business, University of Arkansas, Fayetteville, AR 72701 or contact the Graduate School of Business at gsb@walton.uark.edu.

Ph.D. in Business Administration, Accounting Concentration
Program Structure
The doctoral program in accounting consists of the following elements: course work, two summer papers, a comprehensive examination, and a dissertation. The latter involves an oral defense of both the dissertation proposal as well as the final dissertation. It is anticipated that all required course work, including accounting seminars, tool courses, and supporting courses, will be completed in two to two and a half years (a total of 42 hours excluding colloquium and dissertation credit). Students must recognize a joint responsibility in their preparation to perform research and, in some cases, may wish to take courses beyond those specified to strengthen their skills and abilities in fields that will contribute to successful completion of their dissertation.

The seminars will be offered in alternating years, A and B, respectively.

Year A:
- Seminar I covers research methods and research design, with an emphasis on disclosure choices and consequences.
- Seminar II presents an overview of accounting research, focusing on auditing and corporate governance.

Year B:
- Seminars III and IV present and overview of accounting research, and emphasize capital markets research and selected research topics respectively.

After these four seminars, students are able to select an area of specialization. The expectation is that students take two specialized seminars. For example, students could take seminars offered by the Finance Department.

Research Tools
Required Courses:
- ECON 5233 Mathematics for Economic Analysis (Su) 3
- ECON 6613 Econometrics I (Fa) 3
- ECON 6623 Econometrics II (Sp) 3
- ECON 5533 Microeconomic Theory I (Fa) 3

Elective Courses:
Select at least two courses from the following: 6
- ECON 6233 Microeconomic Theory II (Sp)
- ECON 6633 Econometrics III (Sp)
- ECON 6713 Industrial Organization I (Fa)
- ISYS 5613 Multivariate Analysis (Sp)
- ISYS 5613 Business Applications of Nonparametric Techniques (Sp)
- ISYS 5723 Advanced Multivariate Analysis (Irregular)
- MKTG 6433 Seminar in Research Methods (Irregular)
- STAT 5313 Regression Analysis (Sp)

Total Hours 18

Supporting Courses
Nine hours of supporting courses are selected by the student in consultation with the accounting doctoral program coordinator. Generally such courses should be concentrated in a specific field in business or outside business (e.g., psychology, sociology, etc.) to meet the objectives of the student’s program. All supporting courses taken must be completed with a grade of “B” or higher prior to sitting for the written comprehensive examination in Accounting.

Research Requirement
The Accounting Doctoral Program emphasizes the development of strong analytic skills and the mastery of sophisticated research methods. The program involves doctoral students in research at the beginning of the program. The intent of the first year research project is for students to explore an area of scholarship and to develop skills to conduct original research within a team framework. During the first and second years,
under the direction of a qualified faculty member or members, the student identifies an area of interest that would lead to a summer working paper.

The summer project is a concerted scholarly effort with faculty providing broad, but detailed formal guidance. The goal is to produce a paper publishable in a highly respected, academic journal, which may be co-authored by the doctoral student and the faculty member or members.

Requirements for the research teams include highly motivated students, strong faculty involvement, structured projects, commitment to deadlines, commitment to goals, and continuous project review.

**Comprehensive Examination**

After satisfactory completion of all required course work, each Ph.D. student must pass a written comprehensive examination prepared by the Doctoral Program Committee of the Department of Accounting and administered on a date selected by the Doctoral Program Committee. Each student is expected to take the written comprehensive exam within 36 months after starting coursework. If the written comprehensive examination is failed, it should be retaken within 6 months after the failure on a date selected by the Doctoral Program Committee of the Department of Accounting. If the written comprehensive is failed a second time, and if the Doctoral Program Committee allows a third sitting, the examination must be retaken within 6 months after the second failure. Failure to satisfactorily complete the written comprehensive examination results in termination from the program.

**Summer Paper**

Students are required to complete summer papers during the first and second years of their residence. The summer papers represent an opportunity to practice the development and execution of a complete research project under the guidance and tutelage of an experienced faculty member or members. They constitute the final “practice run” before embarking on the dissertation. In addition, the summer papers provide an opportunity to explore a specific area of accounting as a potential source for dissertation research. A final benefit of the summer papers is the development of manuscripts that are expected to yield publications by the time the student completes the program or afterward.

**Business Administration (WCOB)**

Anne O'Leary-Kelly  
Associate Dean for Research and Graduate Programs  
328 Walton College of Business  
479-575-2851

Faculty are listed by department

**Degrees Conferred:**

Ph.D. in Business Administration  
M.B.A.  
Graduate Certificate in Business  
Graduate Certificate in Entrepreneurship

**Master of Business Administration**

The Master of Business Administration degree is directed at students preparing for a professional career. Three plans of study are offered: the full-time M.B.A. program, the Executive M.B.A. program, and the Executive M.B.A. program in Panama City, Panama. The full-time M.B.A. program can be finished in 16 months, the Executive M.B.A. program requires a minimum of 24 months of study; and the Executive M.B.A. program in Panama City, Panama can be completed in 13 months.

The Master of Business Administration program is accredited by the Association to Advance Collegiate Schools of Business (AACSB International).

**Requirements for a Master of Business Administration:** The Master of Business Administration program requires 38-48 graduate credit hours of study for students with an adequate undergraduate background. Students without the necessary academic background may be required to take additional hours or noncredit preparatory classes prior to enrollment in the M.B.A. program. The degree is a non-thesis option.

The full-time M.B.A. program comprises 28 hours of core courses, a 9 hour concentration track, 5 hours of professional development, a 3 hour graduate business elective and a 3 hour internship or study abroad for a total of 48 credit hours. The Executive M.B.A. in Panama City, Panama consists of 38 lock-step credit hours. The Executive M.B.A. on the UA Campus consists of 32 hours of core courses and 6 hours of focused study.

**Areas of Concentration/Focused Study Areas:** The M.B.A. full-time program has four defined areas of concentration: Retail Marketing Management, Supply Chain Management, Financial Management and Entrepreneurship and Innovation. The Executive M.B.A. program offers five focused study areas that include Retail Marketing, Supply Chain, Finance, Entrepreneurship/Innovation and Business Analytics.

**Prerequisites to Degree Program:** Students entering the M.B.A. program are expected to have already mastered basic business concepts in the areas of information technology, quantitative analysis, accounting, finance, economics, marketing, management, and business law. Mastery of the aforementioned topics must be demonstrated before entering the program.

**Admission to Degree Program:** Students must be admitted to the Graduate School of Business and to the M.B.A. program by the M.B.A. Admissions Committee. Admission to the M.B.A. program is based upon an acceptable Graduate Management Admission Test (GMAT) score, an acceptable grade-point average, recommendations, essays, and related work experience. For specific admission requirements in addition to general admission requirements for the M.B.A. program, please access the information online at gsb.uark.edu or contact:

M.B.A. Program Director  
310 Willard J. Walker Hall  
1 University of Arkansas  
Fayetteville, AR 72701  
479-575-2851

**Requirements for the Master of Business Administration Degree, Full time Program:**

**Spring I**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MKTG 5103</td>
<td>Retail Consumer Marketing (Sp)</td>
<td>3</td>
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<tr>
<td>SCMT 5633</td>
<td>Retail and Consumer Products Supply Chain Management (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>FINN 5223</td>
<td>Financial Markets &amp; Valuation (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5363</td>
<td>Business Analytics (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 5243</td>
<td>Economics of Supply Chain &amp; Retail (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>MBAD 5511</td>
<td>Professional Development -- Special Topics In Business (Sp, Fa)</td>
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**Summer**

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<tbody>
<tr>
<td>MBAD 535V</td>
<td>MBA Internship (Su)</td>
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</table>

MBAD 5103 Retail Consumer Marketing (Sp)  
MBAD 5223 Financial Markets & Valuation (Sp)  
MBAD 5511 Professional Development -- Special Topics In Business (Sp, Fa)
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<th>Semester</th>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
<td>MGMT 5223</td>
<td>Managing &amp; Leading Organizations (Fa)</td>
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<td>Fall</td>
<td>ACCT 5223</td>
<td>Accounting for Supply Chain &amp; Retail Organizations (Fa)</td>
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<td>Fall</td>
<td>MBAD 5241</td>
<td>Ethical Decision Making (Fa)</td>
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<td>Fall</td>
<td>MBAD 5511</td>
<td>Professional Development -- Special Topics In Business (Sp, Fa)</td>
<td>1</td>
</tr>
<tr>
<td>Fall</td>
<td>MBAD 5511</td>
<td>Professional Development -- Special Topics In Business (Sp, Fa)</td>
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<td></td>
<td></td>
<td>Career Track Course</td>
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<td></td>
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<td>Career Track Course</td>
<td>3</td>
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<tr>
<td>Spring II</td>
<td>MGMT 5313</td>
<td>Strategic Management (Su)</td>
<td>3</td>
</tr>
<tr>
<td>Spring II</td>
<td>ISYS 5433</td>
<td>Enterprise Systems (Sp)</td>
<td>3</td>
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<tr>
<td>Spring II</td>
<td>MBAD 5413</td>
<td>Partnering Project (Irregular) (or a 4th graduate business elective)</td>
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<td>Spring II</td>
<td>MBAD 5511</td>
<td>Professional Development -- Special Topics In Business (Sp, Fa)</td>
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<tr>
<td>Spring II</td>
<td>MBAD 5511</td>
<td>Professional Development -- Special Topics In Business (Sp, Fa)</td>
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<td>Career Track Course</td>
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<td></td>
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</tr>
<tr>
<td>Total Hours</td>
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<td>48</td>
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</table>

### Full-time M.B.A. Defined Career Tracks

#### Retail Marketing Management
- MKTG 5553 Shopper, Buyer, and Consumer Behavior (Fa) | 3
- MKTG 5433 Consumer and Market Research (Fa) | 3
- MKTG 5333 Retailing Strategy and Processes (Sp) | 3

#### Supply Chain Management
- SCMT 5653 Global Logistics and Supply Management (Irregular) | 3
- SCMT 5643 Transportation Strategies in the Supply Chain (Fa) | 3
- SCMT 5673 Modeling Retail & Consumer Products Logistics (Irregular) | 3

#### Financial Management
- FINN 5443 Retail Finance (Sp) | 3
- FINN 5333 Investment Theory and Management (Fa) | 3
- FINN 541V Shollmier Investment Project (Sp, Fa) | 1-3

#### Entrepreneurship & Innovation
- MGMT 5323 New Venture Development (Fa) | 3
- MGMT 5363 Innovation & Creativity (Sp) | 3
- MKTG 5433 Consumer and Market Research (Fa) | 3
- or WCOB 510V Special Topics in Business (Irregular) | 3

### Executive M.B.A. Program:

#### Pre-Fall
- MGMT 5602 Introduction to Strategy (Fa) | 2

#### Fall
- SCMT 5133 Quantitative Methods and Decision Making (Fa) | 3
- MKTG 5223 Marketing (Fa) | 3

#### Spring
- ECON 5253 Economics of Management and Strategy (Irregular) | 3
- FINN 5113 Corporate Financial Management (Sp) | 3

### Executive M.B.A. Program: Focused Study Areas

#### Retail
- MKTG 5223 Marketing (Fa) (Also in Core) | 3
- MKTG 5563 Contemporary Topics in Retail (Not available until fall 2016) | 3

Choose ONE from the following:
- SCMT 5683 Supply Chain Management in Global Business (Sp) | 3
- SCMT 5693 Predictive Supply Chain Analytics (Fa) | 3
- ISYS 5833 Data Management Systems (Sp, Fa) | 3
- ISYS 5843 Seminar in Business Intelligence and Knowledge Management (Sp, Fa) | 3

#### Supply Chain
- SCMT 5663 Supply Chain Management (Fa) (Also in Core) | 3
- SCMT 5683 Supply Chain Management in Global Business (Sp) | 3
- SCMT 5693 Predictive Supply Chain Analytics (Fa) | 3

#### Innovation/Entrepreneurship
- MGMT 5313 Strategic Management (Su) (Also in Core) | 3
- MGMT 5323 New Venture Development (Fa) | 3
- MBAD 5413 Partnering Project (Irregular) | 3

#### Finance
- FINN 5113 Corporate Financial Management (Sp) (Also in Core) | 3
- FINN 5333 Investment Theory and Management (Fa) | 3
- FINN 5303 Advanced Corporate Financial Management (Irregular) | 3

#### Business Analytics
- SCMT 5133 Quantitative Methods and Decision Making (Fa) (Also in Core) | 3
- ISYS 5833 Data Management Systems (Sp, Fa) | 3
- ISYS 5843 Seminar in Business Intelligence and Knowledge Management (Sp, Fa) | 3

### Executive M.B.A. Program delivered in Panama City, Panama

- MGMT 5602 Introduction to Strategy (Fa) | 2
- MBAD 5613 Financial Accounting (Fa) | 3
Graduate School of Business admission requirements can be found earlier in this chapter.

Requirements for the Graduate Certificate in Entrepreneurship: (12 hours)
To receive the Graduate Certificate in Entrepreneurship, students are required to take 9 hours of coursework in the Walton College of Business and 3 hours of electives related to entrepreneurship in either the Walton College or in another college at the University of Arkansas. Elective courses other than those listed below may be approved by the Director of the Certificate program. Some elective courses have prerequisites that are not met by courses in the certificate program. Students are advised to check prerequisites prior to enrolling in a course.

Course List

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEPH 5821</td>
<td>Research Commercialization and Product Development</td>
<td>3</td>
</tr>
<tr>
<td>MEPH 5821</td>
<td>Ethics for Scientists and Engineers</td>
<td>3</td>
</tr>
<tr>
<td>MEPH 5832</td>
<td>Proposal Writing and Management</td>
<td>3</td>
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Elective Course
Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEPE 5832</td>
<td>Research Commercialization and Product Development</td>
<td>3</td>
</tr>
<tr>
<td>MEPE 5821</td>
<td>Ethics for Scientists and Engineers</td>
<td>3</td>
</tr>
<tr>
<td>MEPE 5832</td>
<td>Proposal Writing and Management</td>
<td>3</td>
</tr>
</tbody>
</table>

M.B.A./J.D. Program
For students interested in obtaining both the M.B.A. and J.D. (law) degrees, the M.B.A./J.D. dual degree program is available. This program allows the student to receive both the M.B.A. degree and the J.D. degree. The program requires separate application and admission to both the School of Law and the Graduate School of Business and the M.B.A. degree program. Students participating in the M.B.A./J.D. program must file a degree plan for both degrees and obtain approval prior to taking elective courses to be used for reciprocal credit. Interested students should obtain bulletins and applications from both the School of Law and the Graduate School of Business. If the student is accepted into both programs, a maximum of six hours of approved upper-level elective law courses may be used as duplicate credit toward the M.B.A. degree and a maximum of six hours of approved graduate courses in business administration may be used as duplicate credit toward the J.D. degree, thus reducing the total time necessary for completion of the degrees.

M.B.A./M.P.S. Concurrent Degrees
Students interested in obtaining both the Master of Business Administration (M.B.A.) and the Clinton School of Public Service Master of Public Service (M.P.S.) degrees may pursue both degrees concurrently. The programs require separate application and admission to both the Clinton School of Public Service and the Graduate School of Business M.B.A. program. Students participating in the M.B.A./M.P.S. programs concurrently must file a degree plan for both degrees and obtain prior approval to take courses to be used for reciprocal credit. Interested students should obtain applications from both the Walton College Graduate School of Business and the Clinton School of Public Service.

Graduate Certificate in Entrepreneurship
The Graduate Certificate in Entrepreneurship is designed to give non-business graduate students a foundation in the core aspects of entrepreneurship they will need to start successful enterprises, to create and promote new products or service offerings in existing organizations, or to engage in social entrepreneurship. The Certificate program is open to all non-business graduate students at the University of Arkansas, and graduate students from all majors are encouraged to participate. Students who complete the Graduate Certificate in Entrepreneurship will have explored the context, tools, and processes of entrepreneurial activity and will have learned how to apply them to commercial and non-commercial enterprises.

Admission Requirements: The Graduate Certificate in Entrepreneurship is open to all non-business graduate students who are in good standing with the graduate school at their campus. Students must apply and be admitted to the Graduate School of Business. Information regarding
Graduate Certificate in Business

The Graduate Certificate in Business is designed to give non-business graduate students a foundation in the core aspects of business they will need to start successful commercial or non-commercial enterprises or assist in creating new products or service offerings in existing organizations. The certificate program is open to all non-business graduate students throughout the University of Arkansas, and students from all majors are encouraged to participate. Ideally, these students will be well-positioned to create knowledge-based, high-growth start-ups or assist existing companies in developing successful new product and services. Both of these goals will contribute to the economic development of the state of Arkansas.

Admission Requirements: The Graduate Certificate in Business is open to all non-business degree-seeking graduate students who are in good standing with the graduate school and admitted to the graduate school of business. Information on graduate school of business admission requirements can be found in the admissions portion of the graduate catalog.

Requirements for the Graduate Certificate in Business: (15 hours) To receive the Graduate Certificate in Business, students are required to take 9 hours of coursework in the Walton College of Business and 6 hours of electives related to business in either the Walton College or in another college at the University of Arkansas. Elective courses other than those listed below may be approved by the Director of the Certificate program. Some elective courses have prerequisites that are not met by courses in the certificate program. Students are advised to check prerequisites prior to enrolling in a course. To receive the graduate certificate in Business, students are required to take 15 hours as follows:

Course List

Required Courses (no prerequisites)

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>MGMT 5213</td>
<td>Business Foundations for Entrepreneurs (Sp)</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following classes (one course with prerequisites):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 5323</td>
<td>New Venture Development (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 5223</td>
<td>Managing &amp; Leading Organizations (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 5363</td>
<td>Innovation &amp; Creativity (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 5313</td>
<td>Strategic Management (Su) (prerequisite – instructor consent)</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following courses (no prerequisites):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACCT 5223</td>
<td>Accounting for Supply Chain &amp; Retail Organizations (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 5243</td>
<td>Economics of Supply Chain &amp; Retail (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>FINN 5223</td>
<td>Financial Markets &amp; Valuation (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 5103</td>
<td>Retail Consumer Marketing (Sp)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCMT 5633</td>
<td>Retail and Consumer Products Supply Chain Management (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 5213</td>
<td>ERP Fundamentals (Su, Fa)</td>
<td>3</td>
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Dale Bumpers College of Agricultural, Food, and Life Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>AGEC 5303</td>
<td>Agricultural Marketing Theory (Fa)</td>
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<tr>
<td>AGEC 5143</td>
<td>Financial Management in Agriculture (Fa)</td>
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<tr>
<td>AGEC 5413</td>
<td>Agribusiness Strategy (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>AMPD 5033</td>
<td>Issues and Trends in Textile Studies (Odd years, Sp)</td>
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<tr>
<td>AMPD 5043</td>
<td>Theories and Practices in Apparel Merchandising (Even years, Sp)</td>
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J. William Fulbright College of Arts & Sciences

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<td>COMM 5423</td>
<td>Seminar in Mass Media Cognition (Even years, Sp)</td>
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<tr>
<td>JOUR 5063</td>
<td>Issues in Advertising and Public Relations (Fa)</td>
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College of Education and Health Professions

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<td>RESM 5463</td>
<td>Sports Facilities Management (Su)</td>
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<td>RESM 5843</td>
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<td>Technical Administration (Irregular)</td>
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<td>INEG 4443</td>
<td>Project Management (Irregular)</td>
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<tr>
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<td>Analysis of Inventory Systems (Irregular)</td>
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Graduate School

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<tr>
<td>MEPH 5383</td>
<td>Research Commercialization and Product Development (Sp)</td>
<td>3</td>
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<tr>
<td>MEPH 5821</td>
<td>Ethics for Scientists and Engineers (Su)</td>
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<tr>
<td>MEPH 5832</td>
<td>Proposal Writing and Management (Su)</td>
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</tbody>
</table>

Economics (ECON)

Faculty

Andrew P. Brownback, Assistant Professor
Andrea Civelli, Assistant Professor
Robert M. Costrell, Professor, Endowed Chair in Education Accountability
William P. Curington, Professor
Gary A. Deck, Professor
Abel Embaye, Clinical Assistant Professor
Amy Lynn Farmer, University Professor, Margaret Gerig and R.S. Martin Jr. Chair in Business
Gary Ferrier, University Professor, Lewis E. Epley Jr. Professorship in Economics
Arya Gaduh, Assistant Professor
David E. Gay, University Professor
Jingping Gu, Associate Professor
Li Hao, Assistant Professor
Andrew W. Horowitz, Professor
Raja Kali, Professor, ConocoPhillips Chair in International Education
Peter Katuscak, Clinical Assistant Professor
Dongva Koh, Assistant Professor
Xiao Liu, Visiting Assistant Professor
Peter J. McGee, Assistant Professor
Peter McGhee, Assistant Professor
Muhammad Saifur Rahman, Clinical Assistant Professor
Robert Bruce Stapp, Clinical Professor

William P. Curington
Department Chair
Degrees Conferred:
M.A., Ph.D. (ECON)

Master of Arts in Economics
Prerequisites to Degree Program: Applicants for graduate studies in economics must meet the requirements of the Graduate School of Business and be accepted by the Department of Economics. The requirements are (1) a bachelor’s degree from an accredited institution with a satisfactory grade-point average, (2) a satisfactory score on the Graduate Record Examinations (GRE) and (3) satisfactory performance in the following courses: intermediate microeconomics, intermediate macroeconomics, statistics, two semesters of calculus, and linear algebra. Students from all academic backgrounds are encouraged to apply.

Degree Options: Students must select the Non-Thesis or Thesis option. Both options combine a study of economic theory, applied econometrics and an applied field that will prepare students for careers in the private or public sector, or for doctoral programs. The Non-Thesis option can be completed in one year. The Thesis option is for students who seek more advanced skills. It requires additional coursework and a thesis, and will take three or four semesters to complete.

Common Requirements for the Master of Arts Degree, Non-Thesis and Thesis Options: All master’s students must satisfactorily complete the 30 hours of course work listed below. Students must have a 3.00 cumulative grade point average in order to graduate. If at any point, a student’s cumulative GPA falls below a 3.00, the student will be placed on academic probation. A student with a cumulative GPA below 3.00 for two consecutive semesters will be dismissed from the program.

Core Requirements
ECON 5233 Mathematics for Economic Analysis (Su) 3
ECON 5533 Microeconomic Theory I (Fa) 3
ECON 6233 Microeconomic Theory II (Sp) 3
ECON 5433 Macroeconomic Theory I (Fa) 3
ECON 6243 Macroeconomic Theory II (Sp) 3
ECON 6613 Econometrics I (Fa) 3
ECON 6623 Econometrics II (Sp) 3
or ECON 6633 Econometrics III (Sp) 3
ECON 643V Seminar in Economic Theory and Research I (Fa) 1-3
ECON 644V Seminar in Economic Theory and Research II (Sp) 1-3

Total Hours 23-27

Applied Field Concentration: 6 hours. Each student shall complete at least six hours of coursework in one applied field. Students who seek advanced training in applied economics and business in preparation for entering business or government employment should select one of the following fields: finance, accounting, marketing, transportation, information systems, or quantitative methods. Students who plan to enter a doctoral program should choose mathematics or statistics as their field. Other concentrations are possible with the approval of the Program Coordinator.

Graduate Seminar (3 hours):
Students must register for at least one hour of graduate seminar each semester they are in residence.
Additional Degree Requirements, Non-Thesis Option (30 hours):

In addition to 30 hours of required coursework, students who select the non-thesis option must take a comprehensive exam. Students must pass written exams in microeconomics and macroeconomics. The final exam at the end of ECON 6233 Microeconomic Theory II (Sp) and ECON 6243 Macroeconomic Theory II (Sp) will be comprehensive over both Micro I & II and Macro I & II. These two exams will be taken by all students in the course and will serve as the comprehensive exam for master’s students. Each exam has three possible grades: Pass, Marginal Pass, and Fail. Students must earn at least a Marginal Pass on both exams.

Should a Ph.D. student later decide to receive the master’s degree, the master’s comprehensive examination requirement will have been satisfied if the student received at least a Marginal Pass on both exams. These exams will be developed and graded by the instructor of record for the course. In cases where a student’s performance might produce a “Fail,” the instructor will consult with the faculty who normally develop the Ph.D. preliminary examination in that area.

Additional Degree Requirements, Thesis Option (Minimum of 42 hours): This option is intended for students who seek the acquisition of advanced analytical and research skills. Students who select the Thesis option must pass 30 hours of required coursework specified above, 12 additional hours of coursework – 6 hours approved by the Program Director and 6 hours of thesis credit, and pass a comprehensive exam. The comprehensive exam will take the form of a formal thesis defense.

Ph.D. in Economics

Prerequisites to Degree Program: Students may enter the program directly from a bachelor’s degree or a master’s degree program. Applicants for graduate studies in economics must meet the requirements of the Graduate School of Business and be accepted by the Department of Economics. The requirements are (1) a bachelor’s degree from an accredited institution with a satisfactory grade-point average, (2) a satisfactory score on the Graduate Record Examinations (GRE) and (3) satisfactory performance in the following courses: intermediate microeconomics, intermediate macroeconomics, statistics, two semesters of calculus, and linear algebra. Students from all academic backgrounds are encouraged to apply.

Requirements for the Doctor of Philosophy Degree: The doctoral program consists of

1. Core requirements
2. Candidacy
3. Field Examinations
4. Dissertation
5. Final Examination

Core Requirements: All doctoral candidates must satisfactorily complete the 39 hours of course work listed below. Students must also register for graduate seminar each semester they are in residence. Students must have a 3.00 cumulative grade point average in order to graduate. If at any point, a student’s cumulative GPA falls below a 3.00 the student will be placed on academic probation. A student with a cumulative GPA below 3.00 for two consecutive semesters will be dismissed from the program.

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<tr>
<th>Course Code</th>
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<td>Mathematics for Economic Analysis (Su)</td>
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<td>ECON 5533</td>
<td>Microeconomic Theory I (Fa)</td>
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<tr>
<td>ECON 6233</td>
<td>Microeconomic Theory II (Sp)</td>
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<tr>
<td>ECON 6243</td>
<td>Macroeconomic Theory II (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 5433</td>
<td>Macroeconomic Theory I (Fa)</td>
<td>3</td>
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<tr>
<td>ECON 6613</td>
<td>Econometrics I (Fa)</td>
<td>3</td>
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<td>ECON 6633</td>
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<td>ECON 6713</td>
<td>Industrial Organization I (Fa)</td>
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<td>ECON 6723</td>
<td>Industrial Organization II (Sp)</td>
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<tr>
<td>ECON 6833</td>
<td>International Development I (Fa)</td>
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<tr>
<td>ECON 6843</td>
<td>International Development II (Sp)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 6913</td>
<td>Experimental Economics (Fa)</td>
<td>3</td>
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</tbody>
</table>

Note: The foregoing requirements are for students who enter the doctoral program directly from undergraduate school. Students whose qualifications exceed the baccalaureate will be evaluated individually in accordance with standards established by the Graduate School and the Walton College of Business. Students who have earned a master’s degree in economics at the University of Arkansas or elsewhere may have substantially shorter programs.

Candidacy Examinations: Students must pass written examinations in microeconomics and macroeconomics. These exams will normally be given in the summer after a student’s first year in the program. Each exam has three possible grades: Pass, Marginal Pass, and Fail. Students must earn at least a Marginal Pass on both exams and a Pass in at least one of the exams. A student will normally have two opportunities to pass each exam with the second opportunity typically occurring in January. If a student’s exam scores are not satisfactory, all exams for which a grade of Pass was not earned must be retaken. Only the most recent grade will be used in determining if this requirement has been met. Students will normally have only two attempts to pass the candidacy exams. Failure to successfully complete this requirement will result in a student being dismissed from the program.

Field Examination: Ph.D. students will have two fields of study, which will normally be a) Industrial Organization and b) International Macroeconomics and Development. Other fields are possible with the approval of the Director of Doctoral Studies. A field will consist of 6 hours of specialized courses (numbered 6000 or above). Students will select one of their two fields as a major field and must pass a Field Examination in that area. The Field Examination requirement is satisfied by a research paper on a topic in the student’s field of specialization that is approved by the student’s adviser. The paper will typically be completed after the student completes the required field courses (typically in the summer after the student’s second year). The paper topic must be approved by the student’s advisor and registered with the Director of Graduate Studies. This requirement is completed when the student’s adviser approves the completed paper. When feasible, the paper will be presented at a departmental seminar before it is approved by the student’s adviser.

Dissertation: The dissertation represents a demonstration of a candidate’s ability to select, define, organize, and complete a major research project. It should demonstrate that the student has technical mastery of the field, is capable of doing independent scholarly research, and is able to formulate conclusions which enlarge the body of economic knowledge. Dissertation requirements include (1) a defense of proposal and (2) completion of an acceptable doctoral dissertation. Students must enroll in a total of 18 hours of dissertation credit.

Final Examination: The final examination is normally an oral defense of the student’s dissertation.
Finance (FINN)

Faculty

**John Andrew Dominick**, Professor, J.W. Bellamy Chair of Banking and Finance

**Douglas P. Heath**, Associate Professor

**Hung-Chia Scott Hsu**, Assistant Professor

**Tomas Jandik**, Professor, Edward W. and Anna Reed Professorship in Finance

**Wayne Y. Lee**, Professor, Alice L. Walton Chair in Finance, Garrison Chair in Finance

**Pu Liu**, Professor, Harold Dulan Chair in Capital Formation, Robert E. Kennedy Chair in Finance

**Alexey Malakhov**, Associate Professor

**Craig Rennie**, Associate Professor, Clete and Tammy Brewer Professorship in Business

**Mark E. Risk**, Instructor

**Corbitt Stace Sirmans**, Assistant Professor

**Timothy J. Yeager**, Professor, Arkansas Bankers Association Chair in Banking

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<tbody>
<tr>
<td><strong>Finance</strong></td>
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<tr>
<td>FINN 6043 Finance Theory (Irregular)</td>
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<tr>
<td>FINN 6133 Seminar in Investment Theory (Sp)</td>
</tr>
<tr>
<td>FINN 6233 Seminar in Financial Management (Irregular)</td>
</tr>
<tr>
<td>FINN 6333 Empirical Research in Finance (Irregular)</td>
</tr>
<tr>
<td>FINN 6733 Seminar in Financial Markets and Institutions (Irregular)</td>
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</table>

<table>
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<tr>
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<td>STAT 5103 Introduction to Probability Theory (Fa)</td>
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<td>STAT 5113 Statistical Inference (Sp)</td>
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<td>STAT 5343 Stochastic Processes (Sp, Su, Fa)</td>
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<td>STAT 5353 Methods of Multivariate Analysis (Sp)</td>
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<td>STAT 5333 Analysis of Categorical Responses (Sp)</td>
<td>3</td>
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<tr>
<td>STAT 5383 Time Series Analysis (Sp, Su, Fa)</td>
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<tr>
<td>STAT 5413 Spatial Statistics (Fa)</td>
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</table>

| Total Hours | 60 |

Student may take up to one research tool course approved by the Finance Department doctoral student adviser if the research tool course is not listed above.

Program Structure: The Ph.D. program in Finance requires 42 credit hours of coursework. Five seminars (15 credit hours) in financial theory and research are required. The remaining credit hours, distributed across two supporting areas, economics and research tools, are customized in consultation with the departmental doctoral program adviser. In addition, students must complete a research paper requirement, pass a written and oral comprehensive exam, as well as successfully defend and conclude an approved doctoral thesis.

Information Systems (ISYS)

Faculty

**Cash Acrey**, Clinical Assistant Professor

**Brittany Michelle Bright**, Instructor

**Susan E. Bristow**, Clinical Assistant Professor

**Timothy P. Cronan**, Professor, M.D. Matthews Endowed Chair in Information Systems

**David Douglas**, University Professor, Walton College Professorship in Information Systems

**Joseph Ehrhardt**, Instructor

**Ron Freeze**, Clinical Associate Professor

**Hartmut Hoehle**, Assistant Professor

**Phillip D. Kindy**, Instructor

**Xiao Ma**, Assistant Professor

**Andrew Mackey**, Instructor

**Suresh Malladi**, Assistant Professor

**Beverly McDaniel**, Instructor

Pu Liu Department Chair

302A Walton College of Business

479-575-4505

Wayne Y. Lee Ph.D. Program Director

473 Walton College of Business 479-575-4505

Degree Conferred:

Ph.D. in Business Administration (BADM)

Finance (FINN)

Faculty

**John Andrew Dominick**, Professor, J.W. Bellamy Chair of Banking and Finance

**Douglas P. Heath**, Associate Professor

**Hung-Chia Scott Hsu**, Assistant Professor

**Tomas Jandik**, Professor, Edward W. and Anna Reed Professorship in Finance

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<td>3</td>
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<tr>
<td>STAT 5413 Spatial Statistics (Fa)</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Hours | 60 |

Student may take up to one research tool course approved by the Finance Department doctoral student adviser if the research tool course is not listed above.

Program Structure: The Ph.D. program in Finance requires 42 credit hours of coursework. Five seminars (15 credit hours) in financial theory and research are required. The remaining credit hours, distributed across two supporting areas, economics and research tools, are customized in consultation with the departmental doctoral program adviser. In addition, students must complete a research paper requirement, pass a written and oral comprehensive exam, as well as successfully defend and conclude an approved doctoral thesis.
Jeff Mullins, Executive in Residence
Rajiv Sabherwal, Professor, Edwin and Karlee Bradberry Chair
Christina Serrano, Assistant Professor
Pankaj Setia, Associate Professor
Tracy Ann Sykes, Associate Professor
Viswanath Venkatesh, Distinguished Professor, George and Boyce Billingsley Endowed Chair in Information Systems
Adriana Wilhelm, Instructor

Rajiv Sabherwal
Department Chair
204 Walton College of Business
479-575-4500

Pankaj Setia
Ph.D. Program Director
224 Walton College of Business
479-575-5653

Paul Cronan
Director, Masters Programs
215 Walton College of Business
479-575-6130

Degrees Conferred:
Ph.D. in Business Administration (BADM)
M.I.S. in Information Systems (INSY)
Graduate Certificate in Enterprise Systems (ISESGC)

Master of Information Systems

The Master of Information Systems is designed to provide professional preparation for positions in business and government. It provides sufficient flexibility to meet the needs of students with various backgrounds and foster lifelong learning and innovation. Students may concentrate in one of four areas: Information Technology Management, Enterprise Resource Planning (ERP) Management, Enterprise Systems (ES) Management, or Software Engineering.

Admission Requirements: The Master of Information Systems program is open to students who have earned a bachelor’s degree from an accredited institution and who can present evidence of their ability to do graduate work. “Evidence of ability” means superior grade-point average, an acceptable test score on the Graduate Management Admission Test (GMAT), and recommendations with respect to ability for successful pursuit of graduate-level work. International applicants and resident aliens must submit a minimum score of 550 on the paper-based or 80 on the Internet-based Test of English as a Foreign Language (TOEFL) or a minimum score of 6.5 on the IELTS taken within the preceding two years, or complete the Intensive English Language Program (Spring International Language Center) and receive an English proficiency recommendation for admission. International applicants must also submit a minimum score of 7 on the IELTS (speaking) sub-test or 26 on the Internet-based TOEFL (speaking) sub-test. Other admissions criteria can be considered on a case by case basis.

Requirements for the Master of Information Systems Degree: The Master of Information Systems is a 30 credit-hour program designed to provide professional information systems preparation for professional positions in business and public sector. Students whose previous studies have fulfilled requirements of the common body of knowledge in business and information systems will be required to complete a minimum of 30 hours of graduate work. The required common body of knowledge in Information Systems includes management information systems, systems analysis, database, and programming languages such as Visual Basic.

To ensure that students acquire the skills necessary for career success, the MIS program strongly encourages all students to obtain additional training directly related to the MIS program prior to graduation. The MIS program considers this training an integral part of the curriculum and recommends that students work for up to one year in a position (or positions) which allow for the practical application of the theoretical principles taught in MIS courses.

Students who hold non-immigrant status in the United States in the F-1 or J-1 categories are responsible for coordinating any necessary authorization for employment with the Office of International Students and Scholars (ISS). F-1 and J-1 students are strongly advised to discuss training options with the MIS Program Director and the ISS office early in their program, and to make themselves aware of limitations and restrictions related to F-1 or J-1 employment authorization benefits.

Pre-MIS

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ISYS 511V</td>
<td>IT Toolkit &amp; Skills Seminar (Irregular) (This course may not be used for the Master of Information Systems degree.)</td>
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Core Courses

<table>
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<tr>
<th>Course Code</th>
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<tr>
<td>ISYS 5423</td>
<td>Seminar in Systems Development (Fa)</td>
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<td>ISYS 5833</td>
<td>Data Management Systems (Sp, Fa)</td>
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<tr>
<td>ISYS 5843</td>
<td>Management of Information Technology Seminar (Sp)</td>
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Areas of Concentration

Select one of the following concentrations: 15

Information Technology Management

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ISYS 5503</td>
<td>Decision Support and Analytics (Sp)</td>
</tr>
<tr>
<td>ISYS 5213</td>
<td>ERP Fundamentals (Su, Fa)</td>
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Enterprise Resource Planning (ERP) Management

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<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>ISYS 5213</td>
<td>ERP Fundamentals (Su, Fa)</td>
</tr>
<tr>
<td>ISYS 5223</td>
<td>ERP Configuration and Implementation (Fa)</td>
</tr>
<tr>
<td>ISYS 5233</td>
<td>Seminar in ERP Development (Irregular)</td>
</tr>
</tbody>
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Select six hours from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ISYS 5133</td>
<td>E Business Development (Sp)</td>
</tr>
<tr>
<td>ISYS 5453</td>
<td>Introduction to Enterprise Servers (Fa)</td>
</tr>
<tr>
<td>ISYS 5503</td>
<td>Decision Support and Analytics (Sp)</td>
</tr>
<tr>
<td>ISYS 5843</td>
<td>Seminar in Business Intelligence and Knowledge Management (Sp, Fa)</td>
</tr>
</tbody>
</table>

Enterprise Systems (ES) Management

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 5503</td>
<td>Decision Support and Analytics (Sp)</td>
</tr>
<tr>
<td>ISYS 5453</td>
<td>Introduction to Enterprise Servers (Fa)</td>
</tr>
<tr>
<td>ISYS 5463</td>
<td>Enterprise Transaction Systems (Sp)</td>
</tr>
</tbody>
</table>

Select six hours from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 5133</td>
<td>E Business Development (Sp)</td>
</tr>
<tr>
<td>ISYS 5213</td>
<td>ERP Fundamentals (Su, Fa)</td>
</tr>
<tr>
<td>ISYS 5843</td>
<td>Seminar in Business Intelligence and Knowledge Management (Sp, Fa)</td>
</tr>
</tbody>
</table>

Software Engineering Management

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 5503</td>
<td>Decision Support and Analytics (Sp)</td>
</tr>
<tr>
<td>ISYS 5133</td>
<td>E Business Development (Sp)</td>
</tr>
</tbody>
</table>
Select nine hours from the following:

- CSCE 4323  Formal Languages and Computability (Sp)
- CSCE 3513  Software Engineering (Sp, Fa)
- CSCE 5323  Computer Security (Irregular)
- ISYS or CSCE courses (approved by Director)

Electives  6
Total Hours  30

Professional M.I.S. (Part-time) Program:
(ordinarily 6 hours per semester)

Pre-MIS
- ISYS 511V  IT Toolkit & Skills Seminar (Irregular) (This course may not be used for the Master of Information Systems degree.)

Fall, Year 1
- ISYS 5423  Seminar in Systems Development (Fa)  3
- ISYS 5833  Data Management Systems (Sp, Fa)  3

Spring, Year 1
- ISYS 5133  E Business Development (Sp)  3
- ISYS 5503  Decision Support and Analytics (Sp)  3

Summer, Year 1
- ISYS 5933  Global Technology and Analytics Seminar (Su)  3
- ISYS 5213  ERP Fundamentals (Su, Fa)  3

Fall, Year 2
- ISYS 5843  Seminar in Business Intelligence and Knowledge Management (Sp, Fa)  3

Concentration (ERP or Enterprise Systems)  3

Spring, Year 2
- ISYS 5943  Management of Information Technology Seminar (Sp)  3

Concentration (ERP or Enterprise Systems)  3

Electives are chosen by the student in consultation with the Master of Information Systems Program Director in the Department of Information Systems (ISYS). Approved electives (6 hours) may be any graduate course approved by the Master of Information Systems Program Director, but only three hours of ISYS courses are permitted.

Note: With the approval of the Master of Information Systems Program Director, any senior-level ISYS course (ISYS 4000+) may be taken for graduate credit. After admission, the student must maintain a 3.00 grade-point average on all graduate coursework and all information systems coursework. Additionally, the student must receive a letter grade of at least a “B” in 75 percent of the courses attempted.

Ph.D. in Business Administration – Information Systems Concentration

Overview

The objective of the Ph.D. in business administration with a concentration in information systems is to prepare students to conduct quality research in information systems as a faculty member at a research-oriented university school of business. The program is designed to produce a graduate with an understanding of the necessary subject matter required to contribute educational and research expertise to the field of information systems. In addition to preparing students to be world-class researchers, the program seeks to prepare students to teach effectively in an information systems curriculum.

Requirements

Requirements for the Ph.D. in business administration with concentration in information systems include core courses and elective courses in information systems, research tools, and supporting fields. These 43 credit hours of courses are taken prior to advancing to candidacy and are broken down as follows: research tools (9 hours); ISYS core courses (21 hours); and supporting field courses (13 hours). Also, there is a requirement that students satisfactorily complete a one-hour Graduate Colloquium during the fall and spring semesters of each year when students are in residence on campus in pursuit of the degree. Following completion of the coursework, students must pass a comprehensive examination. The program also requires completion of 1st and 2nd year summer research projects, defense of a dissertation proposal, and successful defense of the dissertation (18 credit hours). Students are also prepared for a career in research through research assistantships, collaborative research projects with faculty members, colloquia, and classroom teaching and support.

Program Requirements

Research Tools
- ISYS 5203  Experimental Design (Fa)  3
- ISYS 5623  Multivariate Analysis (Sp)  3
- ISYS 5723  Advanced Multivariate Analysis (Irregular)  3

Information Systems Core Courses
Select seven of the following:  21
- ISYS 6133  Survey of IS Research (Fa)  3
- ISYS 6233  IS Research Projects (Irregular)  3
- ISYS 6333  Individual-level Research in IS (Irregular)  3
- ISYS 6433  Team-level Research in IS (Irregular)  3
- ISYS 6533  Macro- and Meso-level IS Research (Irregular)  3
- ISYS 6633  Systems Development (Irregular)  3
- ISYS 6733  Emerging Topics (Irregular)  3
- ISYS 6833  Theory Development (Irregular)  3
- ISYS 601V  Graduate Colloquium (Sp, Fa)  3

Supporting Fields
In addition to the WCOB 6111 Teaching Seminar and MGMT 6213  13 Research Methods Seminar, courses to meet this requirement will be determined in consultation with the ISYS Ph.D. program committee (courses must be at the Ph.D. level, unless otherwise approved by the ISYS Ph.D. program committee). These courses are normally taken outside the ISYS Department and are in the student’s area(s) of interest.
- WCOB 6111  Seminar in Business Administration Teaching I (Fa)  1
- MGMT 6213  Seminar in Research Methods (Irregular)  3

Comprehensive Examination
- Written exam, research tools and IS (at the end of all coursework)
- Oral exam

Summer Research Requirements
- 1st summer paper
- 2nd summer (to include a round of feedback and revision)

Dissertation Requirements
- Successful defense of Dissertation proposal
Successful defense of Dissertation

Other Ph.D. Courses Taken
Students may take up to 9 hours of other Ph.D. courses, as necessary.

Masters Level Courses
Students typically without an information systems background will be required to take some Masters courses prior to taking their comprehensive examinations. These courses do not count toward the Ph.D. degree and are taken to remedy deficiencies. The ISYS Ph.D. program committee will determine whether a student needs to take one or more of these courses. The specific courses are:

- ISYS 5423 Seminar in Systems Development (Fa)
- ISYS 5503 Decision Support and Analytics (Sp)
- ISYS 5833 Data Management Systems (Sp, Fa)

Admission Requirements:
In addition to the University’s Graduate School and Walton College of Business’ Graduate School of Business requirements, the ISYS Ph.D. program has the following requirement: Applicants are expected to have a background in information systems via prior courses in topics such as a programming language, systems analysis, design, and development, and database processing. Students without the background may also be admitted but will likely be required to take up to 3 masters level courses to remedy the deficiency.

Residence Requirement
There is a strong preference for students to be in residence — i.e., be full-time students with assistantship duties — during the entire program. Residence requirements are intended to ensure that every student has ample opportunity for the intellectual development that can result from a sustained period of intensive study and close association with scholars in the intellectual environment of the University. The requirement recognizes that growth as an independent scholar is not merely a matter of class attendance, but rather involves a broader development of the intellect that comes through intensive study, independent research, sustained association with faculty members and other colleagues who share common scholarly and professional interests, attendance at seminars and colloquia, intensive reading and familiarization with library resources, consultation with specialists in other disciplines and resource centers, and the opportunity for broadened exposure to current intellectual issues as they are revealed in various campus offerings.

After filing a Declaration of Intent to pursue the doctoral degree, a student must fulfill a residence requirement as outlined in the Graduate Catalog (p. 241) section on doctors of philosophy and education degrees.

Graduate Certificate in Enterprise Systems (ISESGC)
Timothy Paul Cronan
Director
WCOB 215
479-575-6130
cronan@uark.edu

The Graduate Certificate in Enterprise Systems (ES) is a part-time program offered (on campus, blended, and online) designed to provide graduate students knowledge of and experience with information systems used in modern enterprise environments. The demand for skilled professionals in information systems continues to outpace the supply of qualified applicants. Students may choose one of three concentrations for the Graduate Certificate in Enterprise Systems—Enterprise Information Systems, Business Analytics, or Enterprise Resource Planning. The Certificate program is intended to be completed part-time (ordinarily no more than six hours per semester), and is open to individuals with backgrounds in any discipline.

Admission Requirements: The Graduate Certificate in Enterprise Systems is a part-time program open to individuals with backgrounds in any discipline. Students must apply and be admitted to the Graduate School of Business; the GMAT/GRE requirement is waived for the Graduate Certificate in Enterprise Systems degree program. (Students who have earned a GPA 3.5 or better upon completion of the certificate program and subsequently apply to the Master of Information Systems program will not be required to submit a test score). Information regarding Graduate School of Business admission requirements can be found earlier in this chapter.

Requirements for the Graduate Certificate in Enterprise Systems: (12 hours)
To receive the Graduate Certificate in Enterprise Systems, students must select one of the concentrations below. Students are required to take 9 hours of coursework in the Walton College of Business and 3 hours of electives related to IS in either the Walton College or in another college at the University of Arkansas. Elective courses other than those listed below must be approved by the Director of the Certificate program. Some elective courses have prerequisites that are not met by courses in the Certificate program. Students are advised to check prerequisites prior to enrolling in a course.

Required Course
for all concentrations
- ISYS 5833 Data Management Systems (Sp, Fa) 3
- or ISYS 5213 ERP Fundamentals (Sp, Fa) 3

Enterprise Information Systems Concentration
This concentration is open to individuals with backgrounds in fields other than Information Systems (IS) and is designed to provide non-IS graduate students with the fundamental knowledge and skills needed to successfully transition to a career in the IS field. Students who complete this concentration will have exposure to fundamental principles of IS, techniques for management and development of IS projects, and effective management and use of relational and dimensional data. Students who successfully complete this concentration may be eligible to receive a certificate endorsed by Microsoft

Required Courses (9 hours)
- ISYS 511V IT Toolkit & Skills Seminar (Irregular) (this course may not be used for the Master of Information Systems Degree) 3
- ISYS 5423 Seminar in Systems Development (Sp) 3
- ISYS 5833 Data Management Systems (Sp, Fa) 3

Elective Course
Students should choose 3 hours of coursework from among the following:
- ISYS 5213 ERP Fundamentals (Sp, Fa) (recommended) 3
- ISYS 5133 E Business Development (Sp)
ISYS 5453  Introduction to Enterprise Servers (Fa)  3
ISYS 5933  Global Technology and Analytics Seminar (Su)  3
Total Hours  12

Business Analytics Concentration
This concentration is open to individuals with backgrounds in any discipline and is designed to give business and non-business graduate students’ knowledge and experience in the management and use of enterprise data for operations and decision-making. The ability to effectively manage and analyze increasingly large and complex sets of data is highly valued among employers in all disciplines, as “business intelligence” becomes a primary source of competitive advantage in many organizations. Students who complete this concentration will have a foundation in the effective management and use of relational and dimensional data, the application of statistical decision-making theory, and the exploration and exploitation of data using advanced data mining tools and techniques. Students completing this concentration may be eligible to receive a certificate endorsed by the SAS Institute.

Required Courses (9 hours)
ISYS 5833  Data Management Systems (Sp, Fa)  3
or ISYS 5213  ERP Fundamentals (Su, Fa)  3
ISYS 5503  Decision Support and Analytics (Sp)  3
ISYS 5843  Seminar in Business Intelligence and Knowledge Management (Sp, Fa)  3

Elective Course
Students should choose 3 hours of coursework from among the following:
ISYS 511V  IT Toolkit & Skills Seminar (Irregular) (this course may not be used for the Masters of Information Systems Degree)  3
ISYS 5213  ERP Fundamentals (Su, Fa)  3
ISYS 5133  E Business Development (Sp)  3
ISYS 5423  Seminar in Systems Development (Fa)  3
Total Hours  12

Enterprise Resource Planning Concentration
This concentration is open to individuals with backgrounds in any discipline and is designed to provide business and non-business graduate students a foundation in the effective use, implementation, and customization of Enterprise Resource Planning (ERP) systems. ERP systems support integrated core business processes in nearly every large organization, and knowledge of and experience with these systems are highly valued among employers in all business disciplines. Students who complete this concentration will have exposure to fundamental principles of ERP and techniques for configuration, implementation, and development of ERP systems. Students completing this concentration may be eligible to receive a certificate endorsed by SAP America and the SAP University Alliances Program.

Required Courses (9 hours)
ISYS 5213  ERP Fundamentals (Su, Fa)  3
ISYS 5223  ERP Configuration and Implementation (Fa)  3
ISYS 5233  Seminar in ERP Development (Irregular)  3

Elective Course (3 hours)
Students should choose 3 hours of coursework from among the following:
ISYS 511V  IT Toolkit & Skills Seminar (Irregular) (recommended)  3
ISYS 5453  Introduction to Enterprise Servers (Fa)  3
ISYS 5833  Data Management Systems (Sp, Fa)  3
ISYS 5933  Global Technology and Analytics Seminar (Su)  3
ISYS 5943  Management of Information Technology Seminar (Sp)  3
Total Hours  12

Management (MGMT)
Faculty
Vikas Anand, Professor
Denise Breux-Soignet, Clinical Assistant Professor
John Delery, Professor, Raymond F. Orr Chair in Management
Gary Dowdy, Instructor
Alan E. Ellstrand, Professor, Charles C. Fitcher Chair of Management
Anna Goussevskaia, Clinical Assistant Professor
Nina Gupta, Distinguished Professor, John H. Tyson Chair in Management
Jon Johnson, Professor, Walton College Professorship in Sustainability
Jennifer Kish-Gephart, Associate Professor
Rebecca McKnight, Instructor
Anne M. O’Leary-Kelly, Professor, William R. and Cecilia Howard Chair in Management
Brian K. Pullen, Instructor
Carol Reeves, Professor, Cecil and Gwendolyn Cupp Applied Professorship in Entrepreneurship
Jason Ridge, Assistant Professor
Carolyn Rodeffer, Instructor
Chris Rosen, Professor
Dan Worrell, Professor, Corporate Responsibility Professorship in Management

Ph.D. Program Director
522 Willard J. Walker Hall
479-575-4007

Jon Johnson
Ph.D. Program Director
522 Willard J. Walker Hall
479-575-6227

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Degree Conferred:
Ph.D. in Business Administration (BADM)

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The last part of the comprehensive exam will comprise questions that are based on the specialty area.

**Marketing (MKTG)**

**Faculty**
- **Dub Ashton**, Associate Professor
- **Scot Burton**, Distinguished Professor, Tyson Chair in Food and Consumer Products Retailing
- **Nicole R. Cox**, Instructor
- **Betsy Howlett**, Professor
- **Molly R. Jensen**, Clinical Associate Professor
- **Thomas D. Jensen**, Professor, Wal-Mart Lecturer in Retailing
- **Steven W. Kopp**, Associate Professor
- **Jeff B. Murray**, Professor, R.A. and Vivian Young Chair
- **Molly Rapert**, Associate Professor
- **Robin Leigh Soster**, Assistant Professor
- **Robert E. Stassen**, Associate Professor
- **Anne M. Velliquette**, Clinical Assistant Professor

**Degrees Conferred:**
- Ph.D. in Business Administration (BADM)

**Courses Used to Meet the Research Tools Requirement**
- Courses used to meet the Research Tools requirement are selected in consultation with the student’s Ph.D. Advisory Committee. All courses taken for the Supporting Fields must be at the graduate level and/or taken for graduate credit. Statistics and methods classes cannot be used to fulfill the Supporting Fields requirement. A minimum of 6 hours and a maximum of 9 hours are to be taken in Management. These hours may include MGMT 6223, Special Topics in Management, and MGMT 6233, Irregular Topics in Management.

**Supporting Fields**
- Courses for the supporting fields requirement are selected in consultation with the student’s Ph.D. Advisory Committee. All courses taken for the Supporting Fields must be at the graduate level and/or taken for graduate credit. Statistics and methods classes cannot be used to fulfill the Supporting Fields requirement. A minimum of 6 hours and a maximum of 9 hours are to be taken in Management. These hours may include MGMT 6223, Special Topics in Management, and MGMT 6233, Irregular Topics in Management.

**Research Tools**
- Courses used to meet the Research Tools requirement are selected in consultation with the student’s Ph.D. Advisory Committee and should support the student’s program of study. The courses should provide the student with a knowledge of advanced descriptive and inferential statistics, research design, and research methods.

**Comprehensive Exam**
- Students will be required to take a comprehensive examination as a requirement of the PhD program in the Management Department. The exam will be administered over a three day period with the first day focusing on questions concerning the primary and secondary content areas, the second day being a day off to study a research article that will be covered on the research methods exam and the third day covering research methods. Successful completion of both parts of the comprehensive exam are required for admission to candidacy.

The exam will consist of three parts:

**Content:** Students will have questions from the two content areas they identified. There will be more questions on the primary area than the secondary area. Students will have some opportunity to choose among the questions. There will be some mandatory questions

**Methods:** All students will have the same methods questions. One part of the methods exam will be an article that students review a priori and critique. Students will have some opportunity to choose among the questions. There will be some mandatory questions.

**Specialty Area:** Each student taking the comprehensive exam will select a specialty area of emphasis and a management department faculty willing to sponsor that area. This area is one that the student is expected to be an expert in, and ideally, linked to his or her future dissertation area.

The Ph.D. in Business Administration with a Marketing Concentration allows students to concentrate within one of three areas: channels (e.g., retail, logistics, transportation, supply chain management), management (e.g., strategy, international, relationship marketing), or communications (e.g., consumer behavior, advertising, promotion). The student’s concentration will determine the courses taken in fulfilling the supporting fields requirement and the specialization for the comprehensive examination.

**Program Requirements**
- Generally, the Ph.D. Program in Business Administration with a Marketing Concentration is comprised of 60 credit hours. Up to 6 credit hours of prior coursework may be applied to the requirements for the Marketing Concentration with the recommendation and consent of the student’s Ph.D. Program Advisory Committee.
Marketing Tools
MKTG 6433 Seminar in Research Methods (Irregular) 3
ISYS 6333 Individual-level Research in IS (Irregular) 3
12 hours of electives to be determined in consultation with the Ph.D. Program Advisory Committee.

Marketing Core
MKTG 6443 Seminar in Marketing Theory (Irregular) 3
MKTG 6413 Special Topics in Marketing (Irregular) (must be consumer behavior content) 3

Supporting Fields
Courses for the supporting field requirement are made in consultation with the student’s Ph.D. Program Advisory Committee. All courses taken for the supporting fields must be at the graduate level and/or taken for graduate credit. A minimum of six hours should be taken in graduate research seminars.

Dissertation
A dissertation will be written under the guidance of the marketing faculty. The dissertation committee consists of a minimum of 3 graduate faculty members. One graduate faculty member outside the Marketing Department may be chosen for this committee depending on the dissertation topic.

Total Hours 60

Supply Chain Management (SCMT)

Faculty
John Aloysius, Associate Professor
Terry L. Esper, Associate Professor, Oren Harris Chair in Logistics
Brian Fugate, Associate Professor, Oren Harris Chair in Transportation
Christian Hofer, Associate Professor
David Graham Hyatt, Clinical Assistant Professor
William C. Murphey, Instructor
Adriana Rossiter-Hofer, Associate Professor
Carole Shook, Instructor
Annibal Camara Soder, Assistant Professor
Matthew A. Waller, Professor, Garrison Endowed Chair in Supply Chain Management
Brent D. Williams, Associate Professor
Brent D. Williams, Department Chair
475C Walton College of Business
479-575-2477

Chris Hofer
Ph.D. Program Director
475F Walton College of Business
479-575-6154

Degrees Conferred:
Ph.D. in Business Administration (WCOB)

Ph.D. in Business Administration – Supply Chain Management Concentration
The Ph.D. Program in Business Administration with a Supply Chain Management Concentration prepares individuals for academic careers in research, teaching and service at universities. The program imparts knowledge of the theoretical and substantive areas of supply chain management, as well as of conceptual skills and methodological tools, and prepares students to conduct independent research.

Program Requirements
Generally, the program is composed of 60 credit hours. Up to 3 credit hours of prior coursework may be applied to the requirements for the supply chain management Concentration with the recommendation and consent of the student’s Ph.D. Program Advisory Committee.

Tools 15
Depending on their interest and backgrounds, students will choose five courses from the following list:

• Univariate statistics (minimum 3 hours; e.g., ISYS 5203)
  ISYS 5203 Experimental Design (Fa) (prior course work may be applied toward this requirement)

• Multivariate statistics (minimum 3 hours; e.g., MKTG 6433, ISYS 5623, ISYS 5723)
  MKTG 6433 Seminar in Research Methods (Irregular)
  ISYS 5623 Multivariate Analysis (Sp)
  ISYS 5723 Advanced Multivariate Analysis (Irregular)

• Econometrics (minimum 3 hours; e.g., ECON 6613, ECON 6623, ECON 6633)
  ECON 6613 Econometrics I (Fa)
  ECON 6623 Econometrics II (Sp)
  ECON 6633 Econometrics III (Sp)

• Structural equation analysis (e.g., SCMT 6423)
  SCMT 6423 Seminar in Structural Equation Modeling (Irregular)

• Other (e.g., linear programming, integer programming, stochastic processes, qualitative research methods, etc.)

Supply Chain Management Core
Each doctoral will take five SCM Core Ph.D. seminars from set of six courses 15

SCMT 6413 Fundamentals of Logistics and Supply Chain Management (Irregular)
SCMT 6433 Supply Chain Management Research (Irregular)
SCMT 6443 Theory in Supply Chain Management (Irregular)
SCMT 6453 Behavioral Supply Chain Management (Irregular)
SCMT 6463 Research in Retail Supply Chain Management (Irregular)
SCMT 6473 Emerging Topics in Supply Chain Management (Irregular)

Microeconomics 3
ECON 6233 Microeconomic Theory II (Sp) (Prior course work may be applied toward this requirement)
or equivalent

Supporting Fields
Courses for the supporting fields requirement are made in consultation with the student’s Ph.D. Program Advisory Committee. All courses taken for the supporting fields must be at the graduate level and/or taken for graduate credit. A minimum of six hours should be taken in graduate research seminars.

Dissertation
A dissertation will be written under the guidance of the supply chain management faculty. The dissertation committee consists of a minimum of 3 graduate faculty members. One graduate faculty member outside the Department may be chosen for this committee depending on the dissertation topic.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>SCMT 700V</td>
<td>Doctoral Dissertation (Sp, Su, Fa)</td>
<td>18</td>
</tr>
</tbody>
</table>

**Total Hours** 60
Admissions

Anyone who wishes to earn graduate-level credit, whether as a degree-seeking or non-degree-seeking student, must make formal application to, and be officially admitted by the Graduate School.

The Graduate School offers two classifications of admission:

Degree-Seeking

This enrollment will allow degree credit to be earned if the degree program also accepts the student.

Non-Degree Seeking

This enrollment will not lead to a degree.

Application. To ensure that applications are processed in a timely manner, applicants are encouraged to use our online application at www.apply.uark.edu and scan and submit all supporting documents to gsiedocs@uark.edu. Applications for admission to the Graduate School must be accompanied by a $40 application fee ($50.00 for international applicants), which is not refundable and will not apply against the general registration fee if the applicant enrolls. Alternatively, the application form may be obtained from the Graduate School website (http://grad.uark.edu/forms), or the application form may be obtained and submitted directly to:

GRADUATE SCHOOL ADMISSIONS OFFICE
213 Gearhart Hall
1 University of Arkansas
Fayetteville, AR 72701
Telephone: 479-575-6246

Transcripts. It is the responsibility of those applicants who desire full graduate standing to request from each college or university which the student has previously attended an official copy of the student's academic record including all courses, grades, and credits attempted and indication of degree(s) earned. Official transcripts should be sent directly to the applicant to be included in the self-managed application package. The applicant must not open the envelopes as transcripts not in the original, sealed envelopes will not be considered official. If choosing to scan and send transcripts, students will be required to submit the official transcript(s) by mail before registration for classes will be allowed.

NOTE: The fact that courses completed at one institution may be included on a transcript from another institution will not suffice; official transcripts must be received from each institution previously attended. However, applicants with an earned post-baccalaureate graduate degree (excluding professional degrees) from a regionally accredited institution may submit an official copy of the transcript conferring the baccalaureate degree and the transcript confirming the post-baccalaureate degree. For applicants with an earned post-baccalaureate degree: A degree program may require transcripts from every institution attended in pursuit of the baccalaureate degree even though the Graduate School Admissions Office does not. Please check with the degree program for specific requirements.

All transcripts become the property of the University of Arkansas Graduate School and will not be released to the applicant or to any other person, institution, or agency.

Standardized Test Scores: All degree-seeking applicants to the University of Arkansas Graduate School must submit scores on a standardized exam that is acceptable to the degree program, unless exempted by the degree program or the Graduate School. Standardized examination scores will not be required for any of the non-degree categories of admission, including admission to graduate certificate programs.

Deadlines. The University should receive all application materials, including all official transcripts, at least one month prior to the date of registration. Absolute deadlines for admission consideration are: Fall semester, August 1; Spring semester, December 1; Summer sessions, April 15. Applications received after the deadline, including non-degree and readmits, will be deferred to the next available semester. Many departments/programs have earlier application deadlines. (See deadlines for international students, below.) The recommended deadline for fall semester graduate assistantship consideration is February 1st, although departments/programs may have earlier deadlines.

Previously Enrolled or Currently Enrolled at Fayetteville. For those previously enrolled or currently enrolled at the University of Arkansas, Fayetteville, the Graduate School obtains transcripts from the Registrar's Office. For a graduate of the University of Arkansas, Fayetteville (baccalaureate degree), the only transcripts required are those from the University of Arkansas, Fayetteville, and those from each institution attended after the University of Arkansas, Fayetteville, degree. Anyone who was previously enrolled but who is not currently enrolled in the University of Arkansas Graduate School is considered a "readmission" and is required only to submit an Application for Admission, $25 processing fee, and official transcripts from institutions attended after the University of Arkansas Graduate School enrollment. (See Admission Classification: Readmission.) All requirements for the master's and specialist degrees must be completed within six years; all requirements for the doctoral degree must be completed within seven years. Absence from the University does not change these time limits.

Admission is for a Specific Semester Only. Applicants who wish to change their date of entry after submitting an application must notify the Graduate School Admissions Office; applicants who have already been admitted should also notify the program in which they plan to major. Application materials for applicants who apply for admission but who do not subsequently enroll will be retained by the Graduate School Admissions Office for one calendar year from the date of the applicant's original proposed semester of entry. However, applicants must file a new Application for Admission (no fee) to notify the Graduate School of their request for reconsideration. Applicants who are admitted but do not enroll for one year or more after admission must submit an application for admission, application fee, and have an official copy of the student's academic record sent from each college or university attended and follow procedures for initial admission.

Admission to Graduate Standing. Official notice of the decision concerning admission will be sent from the Graduate School. Admission will not be granted until all requirements are met, and graduate credit will not be granted retroactively except as specified in the Retroactive Graduate Credit Policy (see page 21). Further, admission to graduate standing does not automatically constitute admission to a specific program of study leading to a graduate degree. Therefore, in addition to satisfying the general requirements of the Graduate School, applicants must comply with the program requirements and have the approval of the program in which they desire to pursue graduate study. It should be
emphasized that students may not earn graduate credit in any course unless they have been admitted to the Graduate School.

Adviser. At the time of admission to a degree program of the Graduate School, the student is assigned to a major adviser. The appointment of the adviser is made in the student’s major program and is determined primarily by the student’s particular areas of interest in the field. Detailed information regarding the student’s program of study may be secured from the appropriate department chairperson or program director.

Non-Native Speakers of English. All applicants, regardless of citizenship, whose first language is not English, must submit a minimum score of 6.5 on the International English Language Testing System (IELTS), 79 on the Internet-based Test of English as a Foreign Language (TOEFL), or a 58 on the Pearson Test of English - Academic (PTE-A), taken within the preceding two years, unless they have received a graduate degree from an accredited U.S. graduate school, or they have demonstrated an acceptable level of language proficiency as defined in the Graduate School Handbook located on the Graduate School Web site. Individual departments may have higher requirements, and reference should be made to program descriptions. Students applying to a Ph.D. program in the Sam M. Walton College of Business must submit one of these tests at the time of admission. Resident aliens must submit a copy of their Resident Alien card with their application. International applicants must have all material submitted by April 1 for fall semester admission, by October 1 for the spring semester, and by March 1 for the summer session, but it is recommended that all materials required for application be received by the admissions office at least nine months before the applicant wishes to begin his/her studies. International applicants must be accepted to a program of study as a condition to being granted admission to the Graduate School and must meet the requirements for regular admission status unless holding a degree from the University of Arkansas.

Non-native speakers of English, regardless of citizenship, even if eligible for a TOEFL waiver, must demonstrate competency in both spoken and written English to be eligible for a graduate assistantship that requires direct contact with students in a teaching or tutorial role, in a traditional classroom setting or via distance education. Competency in spoken English may be demonstrated by submitting a test score of at least 7 on the IELTS (speaking) sub-test, 26 on the Internet-based TOEFL (speaking) sub-test, 71 on the PTE-A (speaking) sub-test, or “pass” on the Spoken Language Proficiency Test (SLPT). Competency in written English may be demonstrated by either 1) submitting a test score of at least 6.0 on the IELTS (writing subtest), 26 on the Internet-based TOEFL (writing) subtest, a 4.0 on the GRE, a 4.5 on the GMAT (analytical writing) subtest, a 71 on the PTE-A (writing) sub-test, or a 70 on the English Language Proficiency Test (ELPT) OR 2) by concurrently enrolling in ELAC 2033 Principles of Research Writing and ELAC 0011 Writing Workshop: Grammar through Editing. Option 2 is available via placement by test scores (5.5 IELTS writing sub-test, 23 Internet-based TOEFL writing sub-test, 3.5 GRE or 4.0 GMAT analytical writing subtest, 62 PTE-A writing sub-test or 70 on the ELPT). The Graduate Coordinator or Department Chair/program Director must request option 2. Students applying to a Ph.D. program in the Sam M. Walton College of Business must submit one of these spoken English tests (above) at the time of admission.

English Language Use by Non-Native Speakers. Applicants, regardless of citizenship, whose first language is not English and who are admitted to graduate study at the University of Arkansas, are required to present an acceptable score on one of the following tests: TOEFL (Writing), IELTS (writing), PTE-A (writing), GRE (analytical writing), GMAT (analytical writing) or ELPT (writing). Depending upon exam scores, a student may be required to take one or more ELAC course(s) during their first term of study. Students may be required to take the English Language Placement Test (ELPT) prior to the beginning of classes in their first term of study. Non-native speakers in the following categories are exempt from this requirement, although individual departments may require any of these tests for admission. (Please note that those students who will be in graduate assistantships in which they will have direct contact with students in a teaching or tutorial role must still demonstrate proficiency in spoken English, even if they qualify for one of these exemptions.)

1. Graduate students who earned bachelor’s or master’s degrees in U.S. institutions or in foreign institutions where the official and native language is English;
2. Graduate students with an Internet-based TOEFL writing score of 29, IELTS (writing) score of 7.0, or PTE-A writing score of 80.
3. Graduate students with a 4.5 on the analytical writing portion of the GRE or a 5.0 on the writing portion of the GMAT.

Diagnostic and placement testing is designed to test students’ ability to use English effectively in an academic setting, and its purpose is to promote the success of non-native speakers in completing their chosen course of study at the University of Arkansas. Test results provide the basis for placement into English Language and Culture (ELAC) support courses or course sequences. Courses are offered by the Graduate School and International Education for those students whose language skills are diagnosed as insufficient for college work at the level to which they have been admitted (undergraduate or graduate study). Credit in ELAC courses may not count toward University of Arkansas degrees. Non-native speakers diagnosed as having language competence sufficient for their level of study will not be required to enroll in ELAC courses.

The ELPT is administered by Testing Services during New Student Orientation and there is a $15 charge. Graduate students assessed course work as a result of performance on the ELPT, TOEFL writing, IELTS writing, PTE-A writing, GRE or GMAT analytical writing will be required to complete the ELAC course(s) to support initial course work taken in their fields. Graduate departments/degree programs will have the discretion to waive either the requirement for the language evaluation or the required language courses.

The publication, “International Student Information,” is available from the Graduate and International Admissions Office, 213 Gearhart Hall, 1 University of Arkansas, Fayetteville, Arkansas 72701.

Classifications of Admission to Graduate Standing

Full Graduate Standing, Regular Admission. To be considered for full graduate standing, regular status, applicants must have earned a baccalaureate or a master’s degree from the University of Arkansas, Fayetteville, or from a regionally accredited institution in the United States with requirements for the degrees substantially equivalent to those of this University, or from a foreign institution with similar requirements for the degrees. Admission to graduate standing does not automatically constitute acceptance to a program of study leading to a graduate degree. To pursue a graduate degree, a person must also be accepted in a program of study after gaining regular admission to graduate standing. International applicants cannot be admitted to graduate standing unless they are also accepted by a degree program at the same time.

Persons who achieve regular admission but are not initially seeking a graduate degree (non-degree) and who subsequently decide to pursue
a degree must apply for and be accepted in a degree program by the Graduate School. A student with regular graduate standing who has not been accepted in a program of study leading to a specific graduate degree may take no more than 12 semester hours of graduate-level courses that can be counted toward the requirements for a graduate degree (six for graduate certificate programs). At the time of acceptance in a degree program, the chair of the appropriate department or program director will recommend to the Graduate School which courses previously taken, if any, are to be accepted in the degree program.

Requirements for admission to graduate standing and acceptance in a program of study leading to a graduate degree are:

1. For admission to graduate standing:
   a. A grade-point average of 3.0 or better (A=4.00) on the last 60 hours of course work taken prior to receipt of a baccalaureate degree from a regionally accredited institution of higher education; or
   b. Conferral of a post-baccalaureate graduate degree (excluding professional degrees) from a regionally accredited institution; and
   c. A score on a standardized examination (e.g. Graduate Record Examination, Miller Analogies Test, Praxis, Graduate Management Admission Test) that is acceptable to the degree program, unless exempted by the degree program or the Graduate School.

2. For acceptance to a graduate degree program the requirements are as follows:
   a. Fulfillment of either 1.a or 1.b, and and 1.c, if required, and recommendation of the chair of the department or program offering instruction for the degree program; or
   b. Fulfillment of 1.b, recommendation of the chair of the department or program offering instruction for the degree program and approval of the Graduate Dean. The student must also meet any other conditions that may be specified by the faculty of the department.

Any other consideration for admission must be by individual petition to the Graduate Dean and, where pertinent, a recommendation from the appropriate program chair. Each petition will be considered on its own merits, case by case. Program requirements should be considered the minimum for admission to a degree program but do not guarantee admission. That is, fully qualified applicants who are accepted by the Graduate School will not necessarily be accepted into the degree program of their choice. It is the responsibility of the program faculty to allocate program resources in the most effective manner. To accomplish this, the program may not be able to accept every qualified applicant.

Non-Degree Seeking. If a student meets all of the requirements for regular admission to the Graduate School but chooses not to pursue a degree, he/she may be admitted as non-degree seeking. If the student subsequently chooses to pursue a degree, only 12 of the hours taken as a non-degree-seeking student may be used to fulfill degree requirements, and those 12 hours must be approved by the advisory committee.

Non-Consecutive One Term Admission, NON-DEGREE Standing. Applicants who desire admission standing allowing them to enroll in non-consecutive single semesters must obtain from the Graduate School Admissions Office and must sign a statement of understanding. Students admitted to such non-consecutive one-term admissions must understand that any enrollment taken in this classification will not normally carry degree credit. Transcripts are not required for applicants seeking this non-degree standing.

Visiting Graduate Students. A graduate student who is in good standing at another accredited institution may be given admission (non-degree status) to the Graduate School for one semester (renewable) upon submission of an Application for Admission and a letter of good standing from the Dean of the Graduate School at that institution. If the student’s first language is not English, TOEFL requirements will apply, but programs may petition for a student to be admitted without the TOEFL score. If, sometime in the future, the student should wish to pursue a degree in the University of Arkansas Graduate School, it will be necessary to follow the normal procedures for admission, to have official transcripts sent from each institution previously attended, and to submit a TOEFL score, if appropriate.

Readmission. Readmission to the Graduate School is not automatic. Students must meet each of the following criteria and are also strongly encouraged to ensure that an adviser in the department/program is still available to them. Post-candidacy doctoral students who have not been enrolled in the preceding year must be acceptable by the program for readmission.

1. Students who have been enrolled in the Graduate School within the five preceding academic years but have not enrolled in the immediately preceding semester will be readmitted if:
   a. The student has earned at least a 2.85 cumulative grade-point average on all graduate credits attempted during all previous enrollments;
   b. A new Application for Admission form (and $25 processing fee) is filed prior to the desired registration date (preferably, at least one month prior to that date);
   c. The Graduate School has received an official transcript of all course work attempted at other institutions subsequent to the previous enrollment in the University of Arkansas Graduate School;
   d. For students initially admitted Fall 2014 or after, an official standardized test score acceptable to the degree program is on file in the Graduate School; and
   e. The student’s graduate status at the end of the previous enrollment was “good standing.”

2. All requirements for the master’s and specialist degrees must be completed within six years of the first enrollment used for the degree; all requirements for the doctoral degree must be completed within seven years from the original date of the Record of Progress. Absence from the University does not change these time limits. Students may petition for extensions to these time limits only if the course work was completed at the University of Arkansas (Fayetteville).

3. Students who have been previously admitted to and enrolled in the Graduate School but have no enrollment within the five years preceding the semester of readmission and who wish to be readmitted to pursue a graduate degree, may be considered for readmission upon a petition by the degree program to the Graduate School. Such students should contact the department/program head/director or graduate coordinator to request readmission. The department/program head/director, graduate coordinator, or major adviser of the student will petition the Director of Graduate Admissions, using the form “Request for an Exception to the Admissions Requirements of the Graduate School,” and will specify whether all of the student’s previous course work and grade points will be forfeited. (Note: Neither
the degree program nor the student may petition to forfeit only some of the previous course work and grade points; rather, all or none of the course work may be forfeited.) If all of the previous course work and grade points will be forfeited, a notation on the transcript next to these courses will state: “This course may not be used for graduate credit at the University of Arkansas.” If the previous course work and grade points will not be forfeited, the student’s major adviser must petition for a time extension. Please see the Time Extension Policy.

4. Readmission for non-degree seeking students: Non-degree-seeking students who have previously been enrolled in the Graduate School but have had a lapse in their enrollment will follow the procedures stated above, or in the policy pertaining to non-consecutive one-term admissions, whichever is most appropriate.

5. Readmission to the Graduate School under any other circumstances will be considered and decided on an individual basis. Students interested in obtaining such readmission should contact the Graduate School.

Retroactive Graduate Credit

Graduate students fully admitted into a degree program at the University of Arkansas may request that up to twelve hours of courses taken in the final twelve month period of their undergraduate degree count toward their graduate degree, if these courses were taken on the University of Arkansas, Fayetteville campus. These courses may not have been used for the undergraduate degree (unless the student is in a program where this has been approved by the Graduate Council), must be approved by the student’s advisory committee, and must be at the 5000 level or above. Petition will be by the student’s advisory committee or major professor to the Graduate School.

Sometimes students have completed their undergraduate degrees elsewhere, but have then taken course work as undergraduate students at the University of Arkansas after completing their undergraduate degree, but before being admitted to the Graduate School. Such students may request that up to six hours of courses taken for undergraduate credit in the final twelve months prior to admission to the Graduate School count toward their degrees. All of the rules stated in this policy are also applicable to this type of situation.

If the student’s advisory committee wishes to accept courses at the 4000 level towards the graduate degree, when those courses were taken in the last twelve months of a student’s undergraduate degree at the University of Arkansas, Fayetteville, the committee may petition the Graduate School. The petition must include an explanation of why the committee considers these courses to meet graduate degree requirements and expectations for graduate-level work. The instructors for these courses must have had graduate faculty status, and these courses may not have been used for the undergraduate degree.

Courses at the 3000 level taken before the student is fully admitted to the Graduate School may not be used to fulfill graduate degree requirements.

Courses offered by institutions other than the University of Arkansas, Fayetteville, may not be counted toward the graduate degree requirements in this way.

If a program wishes to place a senior-level undergraduate student on a graduate assistantship, the Graduate Dean will consider these appointments on a case-by-case basis. The program must stipulate that the student will be entering one of its graduate programs as soon as the undergraduate degree is completed, and the student must be within six hours of completing the undergraduate degree. An undergraduate student may not hold a graduate assistantship, even under these conditions, for more than one semester.

Admission to Graduate Centers

In an attempt to fulfill the recognized need for graduate education for Arkansas residents who find it impossible or inconvenient to attend classes at Fayetteville, the University of Arkansas Graduate School offers selected graduate-level courses at graduate centers throughout the state.

All courses and instructors at these centers have been individually evaluated by the University of Arkansas Graduate Council and are subject to the same standards of quality that apply to graduate faculty and graduate programs at Fayetteville.

Similarly, those desiring to enroll in these courses must follow the same admission procedures and are subject to the same admission criteria as persons admitted at Fayetteville. There are no exceptions or deviations from these policies and procedures. Admission materials, including all official transcripts, should be received in the Graduate School at least one month prior to the requested semester of entry. (See section on “Admission.”)

For more comprehensive information regarding format of instruction, schedule of classes, enrollment and registration, fees, etc., contact the Global Campus, School of Continuing Education and Academic Outreach, 2 E. Center St., Fayetteville, AR 72701; 479-575-6486 or 1-800-633-2267.

Those intending to enroll for classes at the Graduate Resident Center for Engineering (University of Arkansas at Little Rock, host campus) must submit application for admission to the Graduate School at least one month prior to initial registration through:

Graduate Resident Center for Engineering
3189 Bell Engineering Center
University of Arkansas
Fayetteville, AR 72701
Telephone: 1-800-423-1176 or 479-575-6015

To assure timely processing of the Application for Admission, a check or money order made to the University of Arkansas for the $40 application fee must accompany the application when submitted to the Graduate School.

Contact the above address for information pertaining to classes, enrollment, fees, etc.

Graduate Centers

The University of Arkansas offers graduate-level courses for residence credit at Graduate Centers located off the Fayetteville campus. There are two types of graduate centers currently in existence: Twelve-Hour Graduate Centers and Graduate Resident Centers.

Graduate courses completed at Graduate Resident Centers may be used to satisfy course work requirements for any graduate degree. Any graduate credit course offered by the University of Arkansas, Fayetteville, via distance education (regardless of class sites) will be counted as residence credit.

Twelve-Hour Graduate Centers. The University of Arkansas, Fayetteville, offers graduate courses at off-campus locations. At those
locations, not defined as Graduate Resident Centers for specified degrees, a student may complete a maximum of twelve semester hours of courses for residence credit applicable to the master’s degree requirements at the University of Arkansas.

To obtain graduate credit for courses offered at off-campus locations, the student must gain admission to the University of Arkansas, Fayetteville, Graduate School. If graduate credit so received is to be applied to a specific master’s degree, the student must be accepted in a program of study leading to that degree. Graduate courses completed, but not applicable to the requirements for the master’s degree the student is pursuing, will not be accepted as part of the 30-week residence required for that degree.

**Graduate Resident Centers.** The University of Arkansas offers graduate level courses for residence credit off the Fayetteville campus. All of the residence requirements for some graduate degrees may be completed off campus at Graduate Resident Centers as indicated in the following list.

- **Graduate Resident Centers at Military Bases and the Blytheville and Camden Graduate Resident Centers**
  The Master of Science in Operations Management (M.S.O.M.) is offered at Graduate Resident Centers established at the Naval Support Activity Mid-South in Millington, Tennessee; the Little Rock Air Force Base in Jacksonville; the Hurlburt Field Air Force Base in Florida; and in Blytheville and Camden. For further information on this degree program and a description of courses offered, see the Operations Management page.

- **Little Rock Graduate Resident Center**
  All of the course requirements for the Master of Science degree in rehabilitation may be completed at the Graduate Resident Center in Little Rock.

- **University of Arkansas Clinton School**
  All course requirements for the Master of Public Service may be completed at a combination of the University of Arkansas Clinton School of Public Service, the University of Arkansas at Little Rock, the University of Arkansas for Medical Sciences, and the University of Arkansas, Fayetteville.

The following table provides a brief outline of minimum requirements for admission to a degree program and for graduation from the program. See the Objectives and Regulations chapter and each degree program for full information about admission and graduation requirements.

| Degree Program                | Degree Abbr. | Test Req. for Admission | Letter of Rec. | Department Application & Admission Requirements | Dissertation or Thesis Required | Foreign Language Required for Grad. | Admissions
|------------------------------|--------------|-------------------------|---------------|-------------------------------------------------|---------------------------------|-------------------------------------|-----------
| Accounting (p. 49)           | M.Acc.       | GMAT                    |               |                                                 | B                               | No                                  | GRE or MAT Yes
| Accounting (p. 49)           | Ph.D.        | GMAT                    |               |                                                 | B                               | No                                  | Opt. No
| Adult and Lifelong Learning (p. 52) | Ed.D.       | GRE                     | No            |                                                 | Y                               | Yes                                 | Yes No
| Adult and Lifelong Learning (p. 52) | M.Ed.       | GRE                     | No            |                                                 | Y                               | No                                  | Opt. No
| Agricultural Economics (p. 54) | M.S.         | GRE                     | 3             | Stmt of Purpose                                | Opt.                            | No                                  | No

| Degree Program                | Degree Abbr. | Test Req. for Admission | Letter of Rec. | Department Application & Admission Requirements | Dissertation or Thesis Required | Foreign Language Required for Grad. | Admissions
|------------------------------|--------------|-------------------------|---------------|-------------------------------------------------|---------------------------------|-------------------------------------|-----------
| Agricultural and Extension Education (p. 56) | M.S. | GRE or MAT Yes | No | Opt. | No |
| Agricultural (p. 57), Food and Life Sciences (p. 57) | M.S. | Opt. | No | No | No |
| Animal Science (p. 58) | M.S. | GRE | 3 | No | Opt | No |
| Animal Science (p. 58) | Ph.D. | GRE | 3 | No | Yes | No |
| Anthropology M.A. (p. 59) | M.S. | GRE | 3 | B | Opt | No |
| Anthropology Ph.D. (p. 59) | M.S. | GRE | 3B | Yes | Yes | Yes |
| Art (p. 61) | M.F.A. | No | 3 | B+ | Images | Yes | No |
| Athletic Training (p. 62) | M.A.T. | GRE | 3 | Essay | Opt | No |
| Biological Engineering (p. 65) | Ph.D. | GRE | 3 | Yes | Yes | No |
| Biological Engineering (p. 65) | M.S.B.E. | GRE | 3 | Yes | Yes | Opt |
| Biology (p. 64) | M.S. | G | 3 | Yes | Yes | No |
| Biology (p. 64) | Ph.D. | G | 3 | Yes | Yes | No |
| Biomedical Engineering (p. 67) | M.S.B.M.E. | GRE | 3 | Yes | Yes | No |
| Biomedical Engineering (p. 67) | Ph.D. | GRE | 3 | Yes | Yes | No |
| Business Administration (p. 69) | M.B.A. | GMAT, GRE | 3B | B | Yes | No |
| Business Administration (p. 69) | Ph.D. | GMAT | 3B | B | Yes | No |
| Career and Technical Education (p. 73) | M.Ed. | GRE | No | No | Opt | No |
| Cell and Molecular Biology (p. 73) | M.S. | GRE | Yes | Yes | Yes | No |
| Cell and Molecular Biology (p. 73) | Ph.D. | GRE | Yes | Yes | Yes | No |
| Chemical Engineering (p. 75) | M.S.Ch.E. | GRE | Opt | Yes | Opt. | No |
| Chemical Engineering (p. 75) | M.S. | GRE | 3 | No | Yes | No |
| Chemistry (p. 77) | M.S. | GRE | 3 | No | Yes | No |

Admissions
<table>
<thead>
<tr>
<th>Program</th>
<th>Degree</th>
<th>GRE</th>
<th>GPA</th>
<th>Statement of Purpose</th>
<th>Ref. Letters</th>
<th>Electronic Application</th>
<th>University of Arkansas</th>
<th>Notes</th>
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<tr>
<td>Childhood Education</td>
<td>M.A.T.</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
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<td>Civil Engineering</td>
<td>Ph.D.</td>
<td>GRE</td>
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<td>No</td>
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<tr>
<td>Civil Engineering</td>
<td>M.S.C.E.</td>
<td>GRE</td>
<td>No</td>
<td>No</td>
<td>Opt</td>
<td>No</td>
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<tr>
<td>Communicative M.S. Disorders</td>
<td>GRE</td>
<td>Yes</td>
<td>Centralized Electronic Application</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td>Communicative M.A.</td>
<td>GRE</td>
<td>3</td>
<td>Writing Sample + Statement of Goals</td>
<td>Opt</td>
<td>No</td>
<td>No</td>
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<td>Community Health Promotion</td>
<td>M.S.</td>
<td>GRE</td>
<td>No</td>
<td>Stmt of Purpose</td>
<td>Opt</td>
<td>No</td>
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<tr>
<td>Comparative Literature and Cultural Studies</td>
<td>M.A.</td>
<td>GRE</td>
<td>3</td>
<td>B</td>
<td>Opt</td>
<td>Yes</td>
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<tr>
<td>Comparative Literature and Cultural Studies</td>
<td>Ph.D.</td>
<td>GRE</td>
<td>3</td>
<td>B</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>GRE</td>
<td>3</td>
<td>Stmt of Purpose</td>
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<tr>
<td>Computer Engineering</td>
<td>M.S.Cmp.E.</td>
<td>GRE</td>
<td>3</td>
<td>Yes</td>
<td>Opt</td>
<td>No</td>
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<td>GRE</td>
<td>3</td>
<td>Stmt of Purpose</td>
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<tr>
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<td>No</td>
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<td>Counseling</td>
<td>M.S.</td>
<td>No</td>
<td>3B</td>
<td>Yes</td>
<td>Opt</td>
<td>No</td>
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<td>Counselor Education</td>
<td>Ph.D.</td>
<td>GRE</td>
<td>3B</td>
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<td>Creative Writing</td>
<td>M.F.A.</td>
<td>GRE</td>
<td>3B</td>
<td>B</td>
<td>Yes</td>
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<tr>
<td>Crop (p. 90), Soil and Environmental Sciences</td>
<td>M.S.</td>
<td>No</td>
<td>3</td>
<td>Statement of Purpose + 3 ref letters</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>Crop (p. 90), Soil and Environmental Sciences</td>
<td>Ph.D.</td>
<td>No</td>
<td>3</td>
<td>Statement of Purpose + 3 ref letters</td>
<td>Yes</td>
<td>No</td>
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<td>No</td>
<td>No</td>
<td>No</td>
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<td>Curriculum and Instruction</td>
<td>M.Ed.</td>
<td>GRE</td>
<td>No</td>
<td>No</td>
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<td>Curriculum and Instruction</td>
<td>Ph.D.</td>
<td>GRE</td>
<td>3</td>
<td>Yes</td>
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<td>Economics</td>
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<td>GRE</td>
<td>3B</td>
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<td>GRE</td>
<td>3B</td>
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<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supply Chain Management (p. 175)</td>
<td>Ph.D.</td>
<td>GMAT</td>
<td>3B</td>
<td>B</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Teaching English to Speakers of Other Languages (p. 177)</td>
<td>M.Ed.</td>
<td>No</td>
<td>2</td>
<td>Stmt of Purpose</td>
<td>Opt</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theatre (p. 177)</td>
<td>M.F.A.</td>
<td>No</td>
<td>3</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Non-departmental students must obtain permission from department to register for courses in these fields.
2. An Educational Specialist degree is available in this area of study. See Curriculum and Instruction (p. 91).
3. A Doctor of Education degree is available in this area of study. See Curriculum and Instruction (p. 91).
4. A Doctor of Philosophy degree in Engineering is available in this area of study. See Engineering (p. 103).

P Preferred
Opt Optional
A International applicants only
B Forms obtained from and returned to department
G General test
S Subject area test
Fees and General Information

Educational expenses will vary according to a student’s course of study, personal needs, and place of residence. Student progress or general course of action in pursuit of higher education at the University of Arkansas is determined during the application and acceptance process. At the conclusion of the application and acceptance process, the progress or general course of action for each student will be assigned a category, called a career.

The career categories at the University of Arkansas — in order of magnitude by the cost of tuition per credit hour — are Agricultural & Food Law, Law, Graduate, and Undergraduate. Students concurrently enrolled in multiple careers will be assigned one primary career for all tuition billing purposes, called a billing career, based on the order of magnitude listed above. The Office of the Registrar is responsible for assigning the appropriate billing career. Students pursing an Undergraduate career will also be classified by undergraduate program. The undergraduate programs of College of Education and Health Professions' plan of Nursing and the Fay Jones School of Architecture and Design's undergraduate program of Architecture have specific tuition rates, while all other undergraduate programs are the Undergraduate tuition rate. Similar to career, although a student may be concurrently enrolled in multiple undergraduate programs, the Office of the Registrar will assign each student only one primary undergraduate program for tuition billing purposes based on the order of magnitude by the cost of tuition per credit hour. All fees, charges, and costs quoted in this catalog are subject to change without notice. A survey tool for tuition and fee estimation is available at the Treasurer's website (http://treasurer.uark.edu/Tuition.asp?pagestate=Estimate).

Financial obligations to the university must be satisfied by the established deadlines. Payment may be made at the university Cashier’s Office in the Arkansas Union, Room 214, by cash, personal check, money order or certified check. Echeck (electronic check) and credit/debit payments are made online at UAConnect (http://uaconnect.uark.edu). If you pay with a debit or credit card, there is a convenience fee charged of 1.8 percent.

Acceptance of payment for fees does not imply academic acceptance to the university.

Estimated Necessary Expenses for an Academic Year

Estimates of necessary expenses for the 2016-17 academic year for a typical graduate student taking 24 credit hours at the University of Arkansas:

<table>
<thead>
<tr>
<th>Fee</th>
<th>Graduate Resident</th>
<th>Graduate Non-Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition *</td>
<td>$9,938.00</td>
<td>$25,122</td>
</tr>
<tr>
<td>University Fees**</td>
<td>$1,294.00</td>
<td>$1,294.00</td>
</tr>
<tr>
<td>Books</td>
<td>$1,046.00</td>
<td>$1,046.00</td>
</tr>
<tr>
<td>Subtotal</td>
<td>$12,178.00</td>
<td>$27,462.00</td>
</tr>
<tr>
<td>Room***</td>
<td>$6,620.00</td>
<td>$6,620.00</td>
</tr>
<tr>
<td>Board***</td>
<td>$3,712.00</td>
<td>$3,712.00</td>
</tr>
<tr>
<td>TOTAL****</td>
<td>$22,510.00</td>
<td>$37,784.00</td>
</tr>
</tbody>
</table>

* Students enrolled in College of Business courses are charged differential tuition at $132.82 per credit hour more than standard graduate in-state tuition.
** University fees per year include the following student-initiated and student-approved fees:
  - Student Activity fee, $2.64/credit hour $63.36
  - Student Health fee, $7.25/credit hour $174.00
  - Media fee, $0.84/credit hour $20.16
  - Transit fee, $2.88/credit hour $69.12
  - Network Infrastructure and Data Systems fee, $10.48/credit hour $251.52
  - Facilities fee, $14.00/credit hour $336.00
  - Library fee, $2.70/credit hour $64.80
  - College of Arts and Sciences fee, $13.12/credit hour $314.88
*** Room amount is provided by the cost of attendance as listed on the student budget from Financial Aid.
**** Budget amounts were adjusted for rounding to accommodate UAConnect budgetary rules.

When paying tuition, room and board, and associated fees, anticipated financial aid for a current semester may be deducted when it is listed as anticipated aid on the student’s account. Students receiving financial aid are strongly encouraged to have sufficient personal funds available to purchase books and to meet necessary expenses for at least one month at the start of school as some aid funds may not be available for disbursement.

The latest information regarding costs and other aspects of university life may be obtained by calling or writing the Office of Graduate and International Recruitment, 213 Gearhart Hall, 1 University of Arkansas, Fayetteville, AR 72701. In Arkansas, call 479-575-6246; from outside of Arkansas, call toll-free 1-866-234-3957.

Tuition Fees

Students classified as “in-state” for fee payment purposes are assessed tuition. Students classified as “out-of-state” for fee payment purposes are assessed additional non-resident tuition.

Official policies of the University of Arkansas Board of Trustees provide the basis for classifying students as either “in-state” or “out-of-state” for purposes of paying student fees. Board policies relating to residency status for fee payment purposes are included at the end of this chapter of the catalog. Out-of-state students who question their residency classification are encouraged to contact the Registrar’s Office, 146 Silas H. Hunt Hall, for more information about residency classification review procedures.

Academic Year

Graduate students are assessed tuition fees of $409.94 per credit hour each semester. Graduate students with out-of-state residency status are assessed tuition of $1,046.76 per credit hour. Graduate students enrolled in the Walton College of Business courses are charged tuition at $542.76
per credit hour and $1,385.91 per credit hour for students with out-of-state residency.

**Summer Sessions**

Graduate students are assessed tuition fees of $409.94 per credit hour. Graduate students with out-of-state residency status are assessed tuition of $1,046.76 per credit hour. Graduate students enrolled in the Walton College of Business courses are charged tuition at $542.76 per credit hour and $1,385.91 per credit hour for students with out-of-state residency.

**Fee Adjustments**

**Academic Semesters and Summer Sessions**

Students who officially withdraw (dropping ALL classes that have not been completed up to that time) from the University of Arkansas during the regular fall or spring semesters receive a cancellation of fees (see chart below), less an Administrative Withdrawal fee of $45. Students who officially withdraw from a summer session or who drop classes in the summer also receive a cancellation of fees (see chart below).

<table>
<thead>
<tr>
<th>Adjustment Percentage</th>
<th>If withdrawn</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>Before the first day of the semester/session</td>
</tr>
<tr>
<td>90%</td>
<td>Through the first 10% of days in the semester/session</td>
</tr>
<tr>
<td>80%</td>
<td>Through the second 10% of days in the semester/session</td>
</tr>
<tr>
<td>70%</td>
<td>Through the third 10% of days in the semester/session</td>
</tr>
<tr>
<td>60%</td>
<td>Through the fourth 10% of days in the semester/session</td>
</tr>
<tr>
<td>50%</td>
<td>Through the fifth 10% of days in the semester/session</td>
</tr>
<tr>
<td>40%</td>
<td>Through the sixth 10% of days in the semester/session</td>
</tr>
</tbody>
</table>

**Student Invoices**

Students who pre-register for a semester will be invoiced approximately six weeks prior to the first day of classes. The Treasurer’s Office will send out an e-mail notification when the student invoices are available on UAConnect. You will log into UAConnect (http://uaconnect.uark.edu), navigate to the Finances section in your Student Center, and click the ‘Student Invoice’ link located under the My Account section.

**Late Fees**

Students who register for the fall 2016 and spring 2017 semesters are required to pay all charges by the posted payment deadline. Students who fail to pay all charges or who fail to execute an installment payment plan by the deadline may be assessed a late payment fee equal to the outstanding balance, not to exceed $50.00.

Any student with an outstanding balance, to include registration-related fees and/or housing charges, by the last payment deadline will be assessed an additional late payment fee equal to the outstanding balance, not to exceed $50.00.

The late fee will not be waived because an invoice was not received.

**Disbursement of Refunds**

Disbursement of refunds due to overpayments by scholarships, loans, and/or grants will begin approximately five (5) days prior to the start of classes. The University of Arkansas has partnered with BankMobile to deliver financial aid and other school refunds to University of Arkansas students. Students should receive their welcome packet, in a bright green envelope, from BankMobile prior to the beginning of classes.

Refund options include direct deposit to your current bank account, a paper check sent via U.S. mail, or creating a checking account with BankMobile. For more information visit www.refundselection.com (http://www.refundselection.com).

**Addresses**

Students may create a check address, which will be used specifically for overpayment checks. This address may be created in addition to the local and permanent addresses. If a check address is not created, the default address will be the permanent address. The student may change their address on UAConnect (http://uaconnect.uark.edu) in the Student Center.

**Teaching Equipment and Laboratory Enhancements Fees**

These fees provide and maintain state-of-the-art classroom equipment and instructional laboratory equipment. These fees vary, based upon the student’s college of enrollment.

During the regular fall, spring and summer academic semesters, these fees are assessed on a per credit hour basis.

<table>
<thead>
<tr>
<th>College or School</th>
<th>Per Credit Hour Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural, Food and Life Sciences</td>
<td>$25.20</td>
</tr>
<tr>
<td>Arts And Sciences</td>
<td>$13.12</td>
</tr>
<tr>
<td>Business</td>
<td>$24.50</td>
</tr>
<tr>
<td>Education And Health Professions</td>
<td>$14.95</td>
</tr>
<tr>
<td>Engineering</td>
<td>$39.53</td>
</tr>
</tbody>
</table>

**Students Called into Active Military Service**

When a student or student’s spouse is activated for full-time military service and is required to cease attending the University of Arkansas without completing and receiving a grade in one or more courses, they shall receive compensation for the resulting monetary loss as provided by Fayetteville Policy 504.2 (http://vcfa.uark.edu/policies/fayetteville/avcf/5042.php). The student must cease attendance because 1) the student is activated or deployed by the military or 2) the student’s spouse is activated or deployed by the military and the student or student’s spouse has dependent children residing in the household.

To be eligible for the compensation, the student must provide, prior to activation or deployment for military service, an original or official copy of the military activation or deployment orders to the university’s Veterans Resource and Information Center. A student whose spouse is a service member shall provide proof of registration with the Defense Enrollment Eligibility Reporting System (DEERS) of the U.S. Department of the Defense that establishes that dependent children reside in the household of the student and the service member.

Upon leaving the University of Arkansas because of active duty or deployment, the student may choose one of three compensatory options. The student may officially withdraw and receive full adjustment and refund...
of tuition and non-consumable fees for the term involved; the student can remain enrolled and arrange for a mark of “incomplete” for each class and finish the courses 12 months after deactivation; or the student may receive free tuition and fees for one semester after deactivation. For more detailed information, read Fayetteville Policy 504.2 (http://vcfa.uark.edu/policies/fayetteville/acv/5042.php).

Financial Assistance

Registration (in-state tuition) fees and Non-Resident Tuition for Graduate Assistants

Registration Fee. Any graduate student appointed to the position of Graduate Assistant whose appointment is equal to or greater than 50 percent may be granted registration fees (in-state tuition) in addition to the stipend.

Non-Resident Tuition. Any graduate student appointed to the position of Graduate Assistant whose percent appointment is equal to or greater than 25 percent shall, in addition to any stipend, be treated as an in-state student for tuition and fee purposes for the semester that they are on appointment.

Graduate Assistantships

Graduate assistantships are available for qualified students in numerous fields and must be obtained from the department in which the student is majoring or another appropriate unit. Recipients of these appointments are expected to carry a limited program of graduate studies. Graduate students appointed to the position of graduate assistant whose appointment is equal to or greater than 25 percent shall, in addition to any stipend, be classified as an in-state student for tuition and fee purposes only. In addition, in-state registration (tuition) fees may be paid for appointees of 50 percent or more although tuition is normally not paid for audited courses. Successful applicants must have good academic records, adequate preparation for graduate study in their major field, regular admission to the Graduate School, and must maintain a cumulative grade-point average of at least 2.85 on all work taken for graduate credit, although some departments may require their graduate assistants to maintain a higher grade point average. See probation policy below.

Graduate students on 50 percent appointment must be enrolled in a minimum of six hours of graduate credit during the academic year and a minimum of three hours during the summer if on summer appointment. For the full policy, see the Graduate School Handbook, available on the Graduate School Web site at http://grad.uark.edu/.

Master’s students may hold a graduate assistantship for no more than four major semesters; a doctoral student may hold a graduate assistantship for no more than eight major semesters; a student who enters a doctoral program with only a baccalaureate degree may hold a graduate assistantship for no more than ten major semesters. The department/program may petition the Graduate School for an extension to these time limits, on a case by case basis.

Application forms may be obtained from the Dean of the Graduate School or from the head or chair of the department in which the student seeks to do his/her major work.

Information on other financial aid (loans and employment) can be obtained at the Office of Scholarships and Financial Aid in Hunt Hall.

Graduate School Fellowships

Exceptionally promising new entrants to doctoral programs may be nominated at the time of application for University Doctoral Fellowships. These Fellowships are awarded competitively, and the stipend may be held in addition to a graduate assistantship.

Students on academic probation who have been in residence at UA Fayetteville for two or more semesters will not be allowed to receive a doctoral fellowship.

The Benjamin Franklin Lever Fellowship is designed to provide financial assistance to graduate students from under-represented groups and to provide a means by which the University can achieve greater diversity in the student body. To accomplish these purposes, the program funds a limited number of fellowships to qualified under-represented students who enroll in an on-campus program at the University of Arkansas, Fayetteville campus.

Contact the Graduate School, 346 N. Arkansas Ave., (479) 575-4401, for further information about the University Doctoral and the Benjamin Franklin Lever Fellowships.

Eligibility for Continuing Financial Aid

Graduate students are eligible for continuing financial aid through the Office of Financial Aid (e.g., student loans) if:

1. the student completes, with grades of “C” or better, 67 percent of graduate courses attempted at the University, and
2. the student has not yet completed more than 150 percent of the graduate credits required for his/her degree.

Students wishing to continue receiving financial aid who do not meet these requirements will petition the Student Aid Committee.

Academic Probation Policy for Graduate Students

Whenever a regularly admitted graduate student earns a cumulative grade-point average below 2.85 on graded course work taken in residence for graduate credit, he/she will be warned of the possibility of academic dismissal. When a graduate student has accumulated a minimum of 15 hours of graded course work taken in residence for graduate credit with a cumulative grade-point average below 2.85 and has received at least one warning, he/she will be academically dismissed from the Graduate School. This policy is effective with students entering the Graduate School in Fall 2002, or later. For the policy in effect before this time, contact the Graduate School.

Graduate teaching and research assistants and students on Lever, Doctoral, or other Graduate School fellowships must maintain a CGPA of at least 2.85 on all course work taken for graduate credit. If a student’s CGPA falls below 2.85 on six or more hours of graduate work (one full-time semester), notification will be sent to the students and his/her department. If the CGPA is below 2.85 at the end of the next major semester (fall or spring), the department will not be allowed to appoint the student to an assistantship until such time as his/her CGPA has been raised to the required level.

Veteran Benefits

The University of Arkansas is approved by the Arkansas Department of Education for veterans and veterans’ beneficiaries who are working toward a degree. Veterans of recent military service, service members, members of reserve units, and the dependents of certain other servicemen may be entitled to educational assistance payments under the following programs: Post 911, Title 38, Chapter 30, Montgomery GI Bill for
Veterans; Title 38, Chapter 32, Veterans Educational Assistance Program (VEAP); Title 38, Chapter 35, Survivors and Dependent Education; and Title 10, Chapter 106, Montgomery GI Bill for Selective Reserves.

All students must be working toward a degree and should follow the curriculum outline for their objectives since only specific courses may be applied toward VA certification and graduation. Persons eligible for educational benefits should contact the Office of the Registrar for information.

**Waiver of Tuition and Fees for Senior Citizens**

Arkansas residents who are 60 years of age or older and show proper proof of age may choose to have on-campus tuition and fees waived for on-campus courses under the senior citizen waiver of fees. Admission and enrollment under these conditions is open only on a “space available” basis in existing classes and students choosing to use this waiver may not register until just prior to the beginning of the term.

**Room and Board**

**University Housing**  
(Rates are subject to change)

Housing for married students, students with family status, nontraditional, graduate, and law students is limited and requires early application.

Summer rates for room and board in university residence halls with unlimited meal plans for 2017 summer sessions are $36.63 per day for single-occupancy rooms. Charges start on the requested move-in day and run through the date of check-out. Contact University Housing for information on meal plans 479-575-3951.

Specific questions concerning on-campus living may be directed to Residence Life and Dining Services 479-575-3951. Specific questions concerning sorority and fraternity living may be directed to the Office of Greek Affairs 479-575-4001.

**Off-Campus Housing**

Students eligible to live off-campus may contact local real estate offices for rental information or check http://offcampushousing.uark.edu/.

**Other General Fee Information**

Checks tendered to the university are deposited immediately. The university does not accept postdated checks. Checks returned for “insufficient funds” (NSF checks) are generally presented for payment only once. Each check returned by a bank for any reason will be assessed a returned check fee. The university may, at its discretion, verify available bank funds for any checks written for payment of indebtedness before accepting a check.

The University of Arkansas reserves the right to withhold transcripts or priority registration privileges, to refuse registration, and to withhold diplomas for students or former students who have not fulfilled their financial obligations to the University. These services may also be denied students or former students who fail to comply with the rules governing the audit of student organization accounts or to return property entrusted to them.

Requests for exceptions to the university’s fees, charges, and refund policies must be made in writing. Instructions for submitting requests for exceptions to the various fees, charges, and refund policies of the University may be obtained as follows:

- For residence life and dining services fees, charges, and refund policies contact Residence Life and Dining, Attention: Assistant Director for Business, Hotz Hall, Ninth Floor, (479) 575-3951.
- For parking services fees, charges, and refund policies contact: Parking and Transit, Administrative Services Building, 155 Razorback Road, (479) 575-3507.
- For all other fees, charges, and refunds, contact the Treasurer’s Office at 214 Arkansas Union, Attention: Treasurer.

Students receiving financial aid are strongly encouraged to have sufficient personal funds available to purchase books and to meet necessary expenses for at least one month at the start of school as some aid funds may not be available for disbursement.

Students are allowed to have automobiles at the university, although parking is quite limited. There is a parking permit and registration fee for each vehicle, varying in cost depending upon the parking option selected.

**Fees**

<table>
<thead>
<tr>
<th>Title</th>
<th>Description</th>
<th>Amount**</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FACILITIES FEE</strong></td>
<td>Provides support dedicated specifically to campus facilities needs, including major projects and deferred maintenance.</td>
<td>$14.00</td>
</tr>
<tr>
<td><strong>MEDIA FEE</strong></td>
<td>The University’s student publications, specifically the Arkansas Traveler newspaper and the Razorback yearbook, are partially funded by the media fee. Students reserving a copy are provided with a Razorback yearbook.</td>
<td>$.84</td>
</tr>
<tr>
<td><strong>NETWORK INFRASTRUCTURE AND DATA SYSTEMS FEE</strong></td>
<td>Provides support for the development and operation of the campus network, including electronic equipment, servers with software, and cabling. The network systems serve computer labs, academic and administrative buildings, residence halls and off-campus access facilities. Data systems will enable Web-based access to the University’s information systems for students, faculty, and staff. Also provides support for upgrades and replacement of the student information system.</td>
<td>$10.48</td>
</tr>
<tr>
<td><strong>STUDENT ACTIVITY FEE</strong></td>
<td>Empowers the Associated Student Government (ASG) to make funding available to over 300 Registered Student Organizations and program activities on campus to develop lasting friendships and leadership abilities and provide all students with a unique opportunity to participate in cultural, social, educational, and recreational events throughout the year.</td>
<td>$2.64</td>
</tr>
</tbody>
</table>
STUDENT HEALTH FEE  Covers Wellness and Health Promotion educational programs and healthy student behavior programs to maintain health and safety. Covers individual consultations with a certified wellness coach, consultation with a Registered Dietitian and consultation with an Orthopedic Specialist from the community. Student Health Fee also provides students access to sexual assault counseling, prevention and advocacy services. The Student Health Fee also covers several mental health services, such as 24-hour mental health emergency care, the cost for two intake assessments with a mental health clinician per semester, most group counseling sessions, case management/referral services, psychiatric nurse consultations, refill requests and outreach/advocacy.

TRANSIT FEE  Helps fund the Razorback Bus Transit System, which services the campus and neighboring community year round.

LIBRARY FEE  Provides additional support for library materials acquisitions

* Assessed each academic semester for which the student is enrolled: fall, spring, and summer

** Per Credit Hour

### Program/Service Specific Fees

<table>
<thead>
<tr>
<th>Program or Service</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Language Placement Test (ELPT)</td>
<td>$15.00</td>
</tr>
<tr>
<td>Graduation fees:</td>
<td></td>
</tr>
<tr>
<td>• Graduation Application – Late Fee</td>
<td>$25.00</td>
</tr>
<tr>
<td>• Masters’ Degree and Education Specialist</td>
<td>$85.00</td>
</tr>
<tr>
<td>• Master’s Thesis</td>
<td></td>
</tr>
<tr>
<td>• Ph.D. and Ed.D. Degree</td>
<td>$95.00</td>
</tr>
<tr>
<td>• Dissertation Fee</td>
<td></td>
</tr>
<tr>
<td>I.D. Card — First card</td>
<td>$22.00</td>
</tr>
<tr>
<td>• Authentication fee (exclusively online students)</td>
<td>$5.00</td>
</tr>
<tr>
<td>• First card (exclusively online students)</td>
<td>$25.00</td>
</tr>
<tr>
<td>• First card</td>
<td>$22.00</td>
</tr>
<tr>
<td>• Each replacement card</td>
<td>$18.00</td>
</tr>
<tr>
<td>Returned Check Fee</td>
<td>$31.00</td>
</tr>
<tr>
<td>Installment Payment Plan</td>
<td>$35.00</td>
</tr>
<tr>
<td>International Graduate Orientation Fee</td>
<td>$42.00</td>
</tr>
<tr>
<td>International Student (non-immigrant) Application fee</td>
<td>$50.00</td>
</tr>
<tr>
<td>English Language Placement Test (ELPT)</td>
<td>$15.00</td>
</tr>
</tbody>
</table>

### International Student Fees

<table>
<thead>
<tr>
<th>Program or Service</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Student per semester service fee (non-immigrants)</td>
<td>$90.00</td>
</tr>
<tr>
<td>Sponsored Student Management Fee</td>
<td>$325.00</td>
</tr>
<tr>
<td>International Visiting Student Program Fee</td>
<td>$250.00</td>
</tr>
</tbody>
</table>

### Late Payment:

- On September 30 or February 28 if balance has not been paid: $50.00
- Additional fee at Nov. 30, April 30, and July 31 for fall, spring, and summer, respectively, if payment has not been made: $50.00

### Mandatory International Student Health Insurance

- $1,836.00/year

### Late Registration Fee

- Prior to Census Day: $25.00
- After Census Day: $50.00

### Graduation Fees

- Application: $40.00
- Late Fee: $25.00 for Domestic, $50.00 for International

### Transcript Fees

- Official Copy: $5.00

### Miller Analogies Test (MAT)

- Proctoring Fee: $50.00

### Online Proctored Exam Fees

- "Take It Now" Fee: $8.75
- "Take It Soon" Fee: $5.00

### Proofreading Fee

- $50.00
Withdrawal from the University fee  $45.00

### College/Course Specific Fees

#### College of Arts and Sciences

<table>
<thead>
<tr>
<th>College</th>
<th>Course(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificate in Business French</td>
<td>FREN 4333, FREN 4433</td>
<td>$130.00/semester</td>
</tr>
<tr>
<td>Expendable Art Supplies</td>
<td>Per credit hour for all ARTS courses</td>
<td>$41.67/credit hour</td>
</tr>
<tr>
<td>Expendable THTR Supplies and Materials</td>
<td>Per credit hour for all THTR courses</td>
<td>$20.00/credit hour</td>
</tr>
<tr>
<td>Fifth-year Internship Fee (M.A.T.)</td>
<td>ARED 476V, MUED 451V</td>
<td>$100.00/semester</td>
</tr>
<tr>
<td>Program/Excursion Fee</td>
<td>GEOS 436V</td>
<td>$200.00/semester</td>
</tr>
</tbody>
</table>

#### College of Business

<table>
<thead>
<tr>
<th>College</th>
<th>Course(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Materials Fee – EMBA</td>
<td></td>
<td>$150.00/credit hour</td>
</tr>
<tr>
<td>Course Materials Fee – PMIS</td>
<td></td>
<td>$250.00/credit hour</td>
</tr>
<tr>
<td>Program Fee – EMBA</td>
<td></td>
<td>$401.82/credit hour</td>
</tr>
<tr>
<td>Program Fee – PMIS</td>
<td></td>
<td>$152.24/credit hour</td>
</tr>
<tr>
<td>Technology Fee</td>
<td></td>
<td>$7.00/credit hour</td>
</tr>
</tbody>
</table>

#### College of Education and Health Professions

<table>
<thead>
<tr>
<th>College</th>
<th>Course(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult and Lifelong Learning Seminar Fee</td>
<td>ADLL 6173</td>
<td>$25.00/credit hour</td>
</tr>
<tr>
<td>Communication Disorders Clinical Fee</td>
<td>CDIS 528V, CDIS 5381, CDIS 5391</td>
<td>$100.00/credit hour</td>
</tr>
<tr>
<td>Counseling Practicum Fee</td>
<td>CNED 5343, CNED 6711</td>
<td>$25.00/credit hour</td>
</tr>
<tr>
<td>Counseling Internship Fee</td>
<td>CNED 574V, CNED 674V (section 1)</td>
<td>$25.00/credit hour</td>
</tr>
<tr>
<td>Curriculum Instruction Education Internship Fee</td>
<td>CIED 508V, CIED 514V, CIED 528V, CATE 5016</td>
<td>$20.00/credit hour</td>
</tr>
<tr>
<td>Fifth-year Internship Fee (M.A.T.)</td>
<td>CIED 508V, CIED 514V, CIED 528V, CATE 5016, PHED 507V</td>
<td>$250.00/semester</td>
</tr>
<tr>
<td>Internship for Communication Disorders</td>
<td>CDIS 578V</td>
<td>$100.00/semester</td>
</tr>
<tr>
<td>Internship Program in Education Leadership</td>
<td>EDLE 574V, EDLE 674V</td>
<td>$25.00/semester</td>
</tr>
<tr>
<td>Liability Insurance Fee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Communication Disorders</td>
<td>CDIS 548V, CDIS 558V, CDIS 568V, CDIS 578V</td>
<td>$7.50/semester</td>
</tr>
<tr>
<td>• Communication Disorders (on campus)</td>
<td>CIED 528V</td>
<td>$5.00/semester</td>
</tr>
<tr>
<td>Literacy Clinic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Beginning Assessment</td>
<td>CIED 5173</td>
<td>$20.00/semester</td>
</tr>
<tr>
<td>• Reading Specialist</td>
<td>CIED 5593, CIED 5793, CIED 5963, CIED 5983, CIED 6233</td>
<td></td>
</tr>
<tr>
<td>Malpractice Liability Insurance – Nursing</td>
<td></td>
<td>$56.50/annual</td>
</tr>
<tr>
<td>Nursing Advanced Skills Lab Fee</td>
<td>NURS 5475</td>
<td>$130.00/semester</td>
</tr>
<tr>
<td>Off-Campus Practicum: CDIS 568V Clinical Site</td>
<td></td>
<td>$50.00/semester</td>
</tr>
<tr>
<td>Off-Campus Practicum: CDIS 558V Clinical Site</td>
<td></td>
<td>$100.00/semester</td>
</tr>
<tr>
<td>Off-Campus Practicum: CDIS 548V Public School Site</td>
<td></td>
<td>$50.00/semester</td>
</tr>
<tr>
<td>Outdoor Adventure Leadership Fee</td>
<td>RESM 4023</td>
<td>$40/credit hour</td>
</tr>
<tr>
<td>Rehabilitation Internship and Practicum Fee</td>
<td>RHAB 534V, RHAB 574V</td>
<td>$75.00/semester</td>
</tr>
<tr>
<td>Special Education Lab fee, Practicum</td>
<td>CIED 532V</td>
<td>$25.00/credit hour</td>
</tr>
<tr>
<td>Student Teaching Supervision Teacher Excellence and Support system (TESS) Preparation Fee</td>
<td>PHED 407V</td>
<td>$45.00/semester</td>
</tr>
<tr>
<td>Teacher Excellence and Support system (TESS) Preparation Fee</td>
<td>EDLE 5063</td>
<td>$489.00/semester</td>
</tr>
</tbody>
</table>

#### College of Engineering

<table>
<thead>
<tr>
<th>College</th>
<th>Course(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off-Campus Engineering Graduate Courses</td>
<td></td>
<td>$275.63/credit hour</td>
</tr>
<tr>
<td>Distance Technology Fee</td>
<td></td>
<td>$50.00/credit hour</td>
</tr>
<tr>
<td>Operations Management</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuition</td>
<td></td>
<td>$275.63/credit hour</td>
</tr>
<tr>
<td>Distance Technology Fee</td>
<td></td>
<td>$50.00/credit hour</td>
</tr>
</tbody>
</table>
Graduate Procedures

It is a student’s responsibility to ascertain that requirements have been met and deadlines observed. Degree programs may establish additional requirements.

### Procedures for Master’s and Specialist Degrees

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Responsible Party</th>
<th>Action Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formation of program advisory committee and submission of Master's Committee form*</td>
<td>Major Adviser/Department Chair/Head</td>
<td>Immediately following admission to degree program for those programs that use an advisory committee</td>
</tr>
<tr>
<td>Changes in program advisory committee by memorandum</td>
<td>Major Adviser/Member Leaving Committee</td>
<td>As soon as change occurs</td>
</tr>
<tr>
<td>Request transfer of credit by submitting Request for Transfer of Graduate Credit form* (master’s degrees only)</td>
<td>Major Adviser</td>
<td>Before Graduation</td>
</tr>
<tr>
<td>Graduation Application*</td>
<td>Student</td>
<td>By the following deadlines for the semester in which the degree is to be awarded: Fall - Oct. 1; Spring - March 1; Summer - July 1</td>
</tr>
<tr>
<td>Inclusion of name for commencement exercises, regalia, and announcement orders</td>
<td>Student</td>
<td>Deadlines indicated in on the Registrar’s Office web page at <a href="http://registrar.uark.edu/968.php">http://registrar.uark.edu/968.php</a></td>
</tr>
<tr>
<td>Removal of incompletes</td>
<td>Student/Instructor</td>
<td>When course requirements have been met</td>
</tr>
<tr>
<td>To avoid an incomplete becoming “F”</td>
<td>Student/Instructor</td>
<td>Change of grade form must be submitted prior to twelve weeks into the next major semester of enrollment</td>
</tr>
<tr>
<td>Final comprehensive examination (Certified by submission of Record of Progress form* with original signatures)</td>
<td>Advisory Committee</td>
<td>Must be completed by graduation</td>
</tr>
</tbody>
</table>

### Additional Requirements for the Thesis Option

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Responsible Party</th>
<th>Action Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selection of thesis title and formation of thesis committee and submission of new Master's Committee form* if thesis committee differs from the advisory committee</td>
<td>Thesis Director/Department Chair/Head</td>
<td>At least three months prior to the date of the defense</td>
</tr>
<tr>
<td>Obtain Guide for Preparing Theses and Dissertations from the Graduate School website</td>
<td>Student</td>
<td>Prior to formatting of thesis document</td>
</tr>
<tr>
<td>Submission of preliminary copies to each thesis committee member</td>
<td>Student</td>
<td>At least three weeks before theses are due in the Graduate School</td>
</tr>
<tr>
<td>Defense of thesis (certified by submission of Record of Progress with original signatures*)</td>
<td>Thesis Committee</td>
<td>At least two weeks before theses are due to the Graduate School</td>
</tr>
<tr>
<td>Registration for at least six hours of thesis</td>
<td>Student</td>
<td>Before graduation</td>
</tr>
<tr>
<td>Preliminary editorial check of thesis</td>
<td>Student</td>
<td>At least two weeks before theses are due in the Graduate School</td>
</tr>
<tr>
<td>Final copies of thesis to Graduate School</td>
<td>Student submits to Graduate School</td>
<td>No later than one week before graduation**</td>
</tr>
</tbody>
</table>

* Forms are available from the Graduate School website ([http://grad.uark.edu](http://grad.uark.edu)). ** Specific deadlines are available in the Graduate School.

### Procedures for Doctoral Degrees

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Responsible Party</th>
<th>Action Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formation of program advisory committee and submission of Doctoral Committee form*</td>
<td>Major Adviser/Department Chair/Head</td>
<td>Immediately following admission to degree program for those programs that use an advisory committee</td>
</tr>
<tr>
<td>Changes in program advisory committee by memorandum</td>
<td>Major Adviser/Department Chair/Head</td>
<td>As soon as change occurs</td>
</tr>
<tr>
<td>Foreign Language Requirement (if required)</td>
<td>Advisory Committee</td>
<td>Determined by committee</td>
</tr>
<tr>
<td>Admission to candidacy</td>
<td>Advisory Committee</td>
<td>Before beginning work on the dissertation*</td>
</tr>
</tbody>
</table>

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* Forms are available from the Graduate School website ([http://grad.uark.edu](http://grad.uark.edu)). ** Specific deadlines are available in the Graduate School.
<table>
<thead>
<tr>
<th>Task</th>
<th>Responsible Party</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enrollment in at least one hour of graded graduate course work or dissertation credit following passing of candidacy exams</td>
<td>Student</td>
<td>Each semester (including summer) until graduation</td>
</tr>
<tr>
<td>Selection of dissertation title and formation of dissertation committee and submission of Doctoral Dissertation Title and new Doctoral Committee form* if dissertation committee differs from advisory committee</td>
<td>Dissertation Director</td>
<td>At least three months prior to the date of the defense*</td>
</tr>
<tr>
<td>Registration for at least 18 hours of dissertation</td>
<td>Student</td>
<td>Before graduation</td>
</tr>
<tr>
<td>Graduation Application</td>
<td>Student</td>
<td>By the following deadlines for the semester in which the degree is to be awarded:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fall - Oct. 1; Spring - March 1; Summer - July 1</td>
</tr>
<tr>
<td>Inclusion of name for commencement exercises, regalia, and announcement orders</td>
<td>Student</td>
<td>Deadlines indicated on the Registrar’s Office web page at <a href="http://registrar.uark.edu/968.php">http://registrar.uark.edu/968.php</a></td>
</tr>
<tr>
<td>Removal of incompletes (Change of Grade form)</td>
<td>Student/Instructor</td>
<td>When course requirements have been met</td>
</tr>
<tr>
<td>To avoid an incomplete becoming “F”</td>
<td>Student/Instructor</td>
<td>Change of grade form must be submitted prior to 12 weeks into the next major semester of enrollment</td>
</tr>
<tr>
<td>Obtain Guide for Preparing Theses and Dissertations from the Graduate School website</td>
<td>Student</td>
<td>Before formatting of dissertation document</td>
</tr>
<tr>
<td>Submission of Announcement of Defense through web form on Graduate School website</td>
<td>Dissertation Director</td>
<td>At least two weeks before the defense**</td>
</tr>
<tr>
<td>Defense of dissertation (Certified by submission of Record of Progress with original signatures*)</td>
<td>Dissertation Committee</td>
<td>At least two weeks before dissertations are due to the Graduate School**</td>
</tr>
<tr>
<td>Submission of preliminary copies to each dissertation committee member</td>
<td>Student</td>
<td>At least six weeks before final defense of dissertation</td>
</tr>
<tr>
<td>Preliminary editorial check of dissertation</td>
<td>Student</td>
<td>At least two weeks before dissertations are due in the Graduate School**</td>
</tr>
<tr>
<td>Final copies of dissertation to Graduate Graduate School</td>
<td>Student submits to Graduate Graduate School</td>
<td>No later than one week before graduation**</td>
</tr>
<tr>
<td>* Forms are available from the Graduate School website (<a href="http://grad.uark.edu">http://grad.uark.edu</a>).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>** Specific deadlines are available in the Graduate School</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Objectives and Regulations

The Graduate School and International Education is the home for all graduate students and all international students, both graduate and undergraduate. Our vision, mission and goals encompass our dedication to the recruitment, admission, retention and graduation of students from Arkansas and across the U.S. and the world, as well as our service to the University of Arkansas. The Graduate School is an autonomous organizational unit, whose dean is responsible to the provost/vice chancellor for academic affairs. The mission statement and goals of the Graduate School may be found in the Graduate School Handbook, available at the Graduate School website (http://grad.uark.edu).

Vision

The Graduate School and International Education assists the University of Arkansas in excelling at research, teaching, training, and service while fostering student and scholar success and enhancing the overall student academic experience.

Mission

The Graduate School and International Education supports the strategic goals of the University of Arkansas to continue as a very high research university; recruits, retains and graduates high-caliber students; advocates for students and student success; facilitates intercultural and international experiences to increase global competencies; and assists in the development of international, interdisciplinary and graduate programs.

Honor Code for the Graduate School

The mission of the Graduate School is to provide post-baccalaureate students with the opportunity to further their educational goals through programs of study, teaching, and research in an environment that promotes freedom of expression, intellectual inquiry, and professional integrity. This mission is only possible when intellectual honesty and individual integrity are taken for granted.

The graduate student at the University of Arkansas is expected to know and abide by the University's academic and research integrity policies. It is expected that graduate students will refrain from all acts of academic and research dishonesty and will furthermore report to the Graduate School any acts witnessed.

The pledge of the Honor Code is this: “On my honor as a graduate student at the University of Arkansas, I certify that I will neither give nor receive inappropriate assistance on the work I do for my degree.” Students will be asked to sign this pledge when they are admitted to the Graduate School. Faculty also may require students to sign this pledge before completing the requirements of a course or a program of study.

Registration and Related Topics

Students must register during one of the formal registration periods. Graduate students, new, returning, or currently enrolled, may register during the priority registration held each semester for the following semester. Students who have not already registered should register during the open registration session. For information on registration, consult the Schedule of Classes on the Registrar’s Web site at www.uark.edu/registrar/.

Enrollment Limits

Under ordinary circumstances, graduate registration is limited to 18 hours for any one semester in the fall or spring, including undergraduate courses and courses audited. Registration above 15 hours must be approved by the Graduate Dean. For registration in the summer, the enrollment limit is 12 hours without approval by the Graduate Dean.

Registration for Audit

When a student audits a course, that student must register for audit, pay the appropriate fees, and be admitted to classes on a space-available basis. Students formally admitted to a degree program have priority for auditing a class. The instructor shall notify the student of the requirements for receiving the mark of “AU” for the course being audited. The instructor and the student’s dean may drop a student from a course being audited if the student is not satisfying the requirements specified by the instructor. The student is to be notified if this action is taken. The only grade or mark that can be given is “AU.” The Graduate School does not normally pay tuition for audited classes for students on assistantship.

Registration Out of Career

Students who wish to enroll in classes for credit outside of their career (e.g. graduate students who wish to enroll in undergraduate classes for undergraduate credit) should print the appropriate form from the Graduate School Web site (http://grad.uark.edu/) and return the form to the office indicated on the form. Students are not able to register themselves out of career. Graduate students taking undergraduate classes via the out-of-career registration form should be aware that those classes do not count toward their minimum number of hours required to receive financial aid. Undergraduate students who register for graduate courses out of career and subsequently are admitted to the Graduate School will not automatically be allowed to use those courses to fulfill requirements of their graduate degrees. See the policy on retroactive graduate credit.

Graduate Credit for 3000 and 4000-level Undergraduate Courses

Graduate students wishing to take 3000-level undergraduate courses for graduate credit will find the necessary forms on the Graduate School Web site. 3000-level courses can be taken by graduate students for graduate credit only when the courses are not in the student’s major area of study and when the courses have been approved by the Dean of the Graduate School for graduate credit. The instructor for the course must hold graduate faculty status and must certify that he/she will make appropriate adjustments in assignments and grading scales to raise the level of expectation for the student to the graduate level. No more than 20 percent of the graded course work in the degree program may be comprised of 3000-level courses carrying graduate credit. Undergraduate courses numbered below 3000 will not be allowed to carry graduate credit.

Students wishing to take 4000-level undergraduate courses for graduate credit will find the necessary forms on the Graduate School website (http://grad.uark.edu). The instructor for the course must hold graduate faculty status and must certify that he/she will make appropriate adjustments in assignments and grading scales to raise the level of expectation for the student to the graduate level.

Students should be aware that a minimum of 50% of the semester hours presented for the graduate degree must be at the 5000 level or above and in the student's field of study. Individual degree programs may have more stringent requirements.
Proper Address of Students
All students are responsible for maintaining their addresses with the University and to report any change of address by update on the University’s student information system at ISIS.uark.edu. Failure to do so may result in undelivered grades, registration notices, invoices, invitations, or other official correspondence and announcements. It is also vitally important that students regularly check their university-assigned e-mail account as many important notices will be sent by e-mail.

Identification Cards
Identification cards are made by the Division of Student Services during each registration period and at scheduled times and places during the year. The I.D. card can be used as a debit card for purchases at the Bookstore or the Union Servery.

Adding and Dropping Courses
A currently enrolled student who has registered during the advance registration period should make any necessary or desired schedule adjustments such as adding or dropping courses or changing course sections during the schedule-adjustment period scheduled for the same semester. Students may also add or drop courses during the first five class days of the fall or spring semester. Students who drop classes by the end of the first week of classes in the fall and spring will have their fees adjusted. (Refer to the Treasurer’s Web site for summer dates.) Fee adjustments are not done for classes dropped after the first week of classes. Drops and withdrawals are two different functions. In a drop process the student remains enrolled. The result of the withdrawal process is that the student is no longer enrolled for the term. The two functions have different fee adjustment policies. Fee adjustment deadlines for official withdrawal are noted on the Treasurer’s Web site.

A student may drop a course during the first 10 class days of the fall or spring semester without having the drop shown on the official academic record. After the first 10 class days, and before the drop deadline of the semester, a student may drop a course, but a mark of “W,” indicating the drop, will be recorded. A student may not drop a full-semester course after the Friday of the tenth week of classes in a semester.

Drop-add deadlines for partial semester courses and summer classes are in the schedule of classes.

Withdrawal from Registration
Withdrawal from the University means withdrawing from all classes that have not been completed up to that time. A student who leaves the University voluntarily before the end of the semester or summer term must officially withdraw by logging onto the student information system and completing a brief online interview. Students choosing not to complete the exit interview must notify the Registrar’s Office by signed, written request. Withdrawal must occur prior to the last class day of a semester. Students who do not withdraw officially from a class that they fail to complete will receive an “F” in that class.

Attendance
Students are expected to be diligent in the pursuit of their studies and in their class attendance. Students have the responsibility of making arrangements satisfactory to the instructor regarding all absences. Such arrangements should be made prior to the absence if possible. Policies of making up work missed as a result of absence are at the discretion of the instructor, and students should inform themselves at the beginning of each semester concerning the policies of their instructors.

Full-Time Status
Enrollment in nine semester hours (not including audited courses) is considered full-time for graduate students not on assistantship. For graduate assistants on 50 percent appointment or more, or students with research fellowships, six semester hours (not including audited courses) of enrollment is considered full-time in the fall and spring semesters. Graduate assistants who are on a 50% appointment for a five-week summer term must earn at least three hours of graduate credit during the summer. However, these credits do not have to be earned in the same session as the appointment, and may be taken at any time during the summer. Tuition for graduate assistants on 50 percent appointments for a five-week summer term will be paid up to a maximum of 6 hours. Students not on graduate assistantships or fellowships must be enrolled in six hours (not including audited courses) to be full time in the summer.

Continuous Enrollment
After a doctoral student has passed the candidacy examinations, the student must register for at least one hour of graded graduate course credit or dissertation credit each semester and one hour during the summer session until the work is completed, whether the student is in residence or away from the campus. For each semester in which a student fails to register without prior approval of the Dean of the Graduate School, a registration of three hours may be required before the degree is granted. Please see the Graduate School Registration and Leave of Absence Policy.

Retroactive Graduate Credit
Graduate students fully admitted into a degree program at the University of Arkansas may request that up to twelve hours of courses taken in the final twelve month period of their undergraduate degree count toward their graduate degree, if these courses were taken on the University of Arkansas, Fayetteville campus. These courses may not have been used for the undergraduate degree (unless the student is in a program where this has been approved by the Graduate Council), must be approved by the student’s advisory committee, and must be at the 5000 level or above. Petition will be by the student’s advisory committee or major professor to the Graduate School.

Sometimes students have completed their undergraduate degrees elsewhere, but have then taken course work as undergraduate students at the University of Arkansas after completing their undergraduate degree, but before being admitted to the Graduate School. Such students may request that up to six hours of courses taken for undergraduate credit in the final twelve months prior to admission to the Graduate School count toward their degrees. All of the rules stated in this policy are also applicable to this type of situation.

If the student’s advisory committee wishes to accept courses at the 4000 level towards the graduate degree, when those courses were taken in the last twelve months of a student’s undergraduate degree at the University of Arkansas, Fayetteville, the committee may petition the Graduate School. The petition must include an explanation of why the committee considers these courses to meet graduate degree requirements and expectations for graduate-level work. The instructors for these courses must have had graduate faculty status, and these courses may not have been used for the undergraduate degree.

Courses at the 3000 level taken before the student is fully admitted to the Graduate School may not be used to fulfill graduate degree requirements.
Courses offered by institutions other than the University of Arkansas, Fayetteville, may not be counted toward the graduate degree requirements in this way.

If a program wishes to place a senior-level undergraduate student on a graduate assistantship, the Graduate Dean will consider these appointments on a case-by-case basis. The program must stipulate that the student will be entering one of its graduate programs as soon as the undergraduate degree is completed, and the student must be within six hours of completing the undergraduate degree. An undergraduate student may not hold a graduate assistantship, even under these conditions, for more than one semester.

**Use of Electronic Resources of the Library**
The use of electronic resources of the University Libraries from a location outside of the library is only available to enrolled students. Students who are enrolled in the spring semester and have pre-registered for the succeeding fall semester may have access to these resources during the intervening summer. Students who are not required to be enrolled for other reasons, who are not pre-registered for the fall, and who wish to use the library resources during the summer must be enrolled in at least one hour of credit in any one of the summer sessions or be entered in the student affiliates table on ISIS. Requests for affiliate status for graduate students must be sent from the major professor to the Graduate School.

**Grades and Marks**
Final grades for courses are “A,” “B,” “C,” “D,” and “F” (except for courses taken in the Bumpers College of Agricultural, Food, and Life Sciences). No credit is earned for courses in which a grade of “F” is recorded. For students admitted to the Graduate School in Fall 2001 or after no credit is earned for courses in which a grade of “F” or “D” is recorded.

A final grade of “F” shall be assigned to a student who is failing on the basis of work completed but who has not completed all requirements. The instructor may change an “F” so assigned to a passing grade if warranted by satisfactory completion of all requirements.

A mark of “I” may be assigned to a student who has not completed all course requirements, if the work completed is of passing quality. An “I” so assigned may be changed to a grade provided all course requirements have been completed within 12 weeks from the beginning of the next semester of the student’s enrollment after receiving the “I.” If the instructor does not report a grade within the 12-week period, the “I” shall be changed to an “F.” When the mark of “I” is changed to a final grade, this shall become the grade for the semester in which the course was originally taken.

A mark of “AU” (Audit) is given to a student who officially registers in a course for audit purposes (see Registration for Audit).

A mark of “CR” (credit) is given for a course in which the University allows credit toward a degree, but for which no grade points are earned. The mark “CR” is not normally awarded for graduate-level courses but may be granted for independent academic activities. With departmental (or program area) approval and in special circumstances, up to a maximum of six semester hours of “CR” may be accepted toward the requirements for a graduate degree.

A mixing of course letter grades and the mark “CR” is permitted only in graduate-level courses in which instruction is of an independent nature.

A mark of “R” (Registered) indicates that the student registered for master’s thesis or doctoral dissertation. The mark “R” gives neither credit nor grade points toward a graduate degree.

A mark of “S” (Satisfactory) is assigned in courses such as special problems and research when a final grade is inappropriate. The mark “S” is not assigned to courses or work for which credit is given (and thus no grade points are earned for such work). If credit is awarded upon the completion of such work, a grade or mark may be assigned at that time and, if a grade is assigned, grade points will be earned. Courses with marks of S may not be used to count toward graduate degree requirements.

A mark of “W” (Withdrawal) will be given for courses from which students withdraw after the first 10 class days of the semester and before the drop deadline of the semester.

For numerical evaluation of grades, “A” is assigned 4 points for each semester hour of that grade; “B,” 3 points; “C,” 2 points; “D,” 1 point; and “F,” 0 points. Grades of plus and minus are assigned grade-point values in the Bumpers College of Agricultural, Food, and Life Sciences.

Students awarded a graduate degree must complete the minimum specified hours by the degree program and the Graduate School. Courses not marked in the course description as eligible to be repeated for degree credit may be included in this total only once.

**The Research Council**
The Research Council recommends policies to encourage research, establish a research environment, and provide research support facilities; serves as a review board for proposed research programs and facilities; recommends adjudication of variances to policies and procedures; supervises the approved policies; and addresses research misconduct cases at the direction of the Provost/Vice Chancellor for Academic Affairs. Membership consists of a faculty member active in research from: a) the Dale Bumpers College of Agricultural, Food and Life Sciences; b) the Sam M. Walton College of Business; c) the College of Education and Health Professions; d) the College of Engineering; and e) one from the science areas of the J. William Fulbright College of Arts and Sciences and f) one from another research area in the Fulbright College; g) non-voting, one student; h) ex officio and non-voting, the Director of Research and Sponsored Programs; and i) ex officio and non-voting, the Vice Provost for Research. A secretary (non-voting) will be provided by the Office of Research and Sponsored Programs.

**Policies/Procedures for Use of Toxic Substances on Campus**
The University of Arkansas is committed to the health and safety of its students, faculty, and staff. It is recognized that during their work for the University, some people will be involved in activities that require the use of substances or materials that are hazardous or toxic in nature. The Environmental Health and Safety unit of the physical plant has prepared the UAF Chemical Hygiene plan. This document addresses the safe use of toxic substances in laboratories. In addition, it defines the minimum acceptable standard safety practices for execution of laboratory work for both research and teaching. The chemical hygiene plan is available from the Office of Environmental Health and Safety at http://www.phpl.uark.edu/ehs/ and is the full statement of the UAF campus policy and procedures for handling toxic substances.
Travel Policy for Graduate Students

Graduate students who travel on University business must comply with the travel policies of the University. For those graduate students not on assistantships/fellowships, please see the University policy at http://studentaffairs.ualr.edu/ by clicking on “Student Travel Policy.”

Term Paper Assistance

The use of the services of term paper assistance companies is a violation of University policies on academic integrity. Student submission of such research or term papers to meet requirements of any class or degree program is expressly prohibited and constitutes academic dishonesty. Any violation of this prohibition will be dealt with as a violation of the academic integrity policy.

Academic Dismissal/Academic Probation

Students may be dropped from further study in the Graduate School if at any time their performance is considered unsatisfactory as determined by either the program faculty or the Dean of the Graduate School. Academic or research dishonesty and failure to maintain a specified cumulative grade-point average are considered to be unsatisfactory performance. See the Graduate Student Dismissal Policy, the Academic Probation Policy for Graduate Students, the University’s Academic Integrity Policy, and the Research and Scholarly Misconduct Policies and Procedures in this catalog.

Using its own written procedures, the graduate faculty of an academic degree program may recommend that the student be readmitted to the Graduate School after dismissal. Dismissed students with non-degree status may petition for readmission to the Graduate School by submitting a written appeal to the Dean of the Graduate School. The graduate faculty of any degree program may establish and state in writing requirements for continuation in that program.

Graduate Student Dismissal Policy

Graduate degree programs have the right to dismiss graduate students who do not make adequate academic progress or engage in illegal, fraudulent, or unethical behavior as defined in any of the University codes or policies pertaining to academic and research integrity. There may also be other unusual situations in which a student may be dismissed from a degree program. In each case, the dismissal should comply with the following procedures.

Lack of Adequate Academic Progress

Students may be dismissed per the academic probation policy of the Graduate School, and students should familiarize themselves with this policy. In addition, students who have not been placed on probation, but who are not making adequate academic progress, may also be dismissed. They must be warned in writing of the possibility of dismissal and will be given a clear statement about what must be done within a specified time period to alleviate the problem. A copy of this warning letter must be filed with the Graduate School. These expectations must be reasonable and consistent with expectations held for all students in the program. If the student does not meet the requirements within the time frame specified, he/she may be dismissed by the degree program with notification to the student and the Graduate School. Students dismissed in this way will not necessarily be dismissed by the Graduate School.

Students may appeal this dismissal to the Graduate School, following the procedures outlined in the Graduate Student Grievance Policy. Students who receive two consecutive unsatisfactory academic progress reports may be immediately dismissed by the degree program and the Graduate School.

Academic or Research Misconduct/Illegal, Fraudulent, or Unethical Behavior

For the process for dismissing students as a result of academic or research misconduct; or as a result of illegal, fraudulent, or unethical behavior, please see the “University of Arkansas Academic Integrity Policy,” the “Research and Scholarly Misconduct Policy and Procedures,” and the University of Arkansas Student Handbook.

Other Situations

Departments may dismiss students for situations other than those specified above. When doing so, the department must notify the student in writing of the possibility of dismissal and send a copy of this letter to the Graduate School. If it is possible for the student to rectify the situation, he/she must be given a clear statement about what must be done within a specified time period to alleviate the problem. These expectations must be reasonable and consistent with expectations held for all students in the program. If the student does not meet the requirements within the time frame specified, he/she may be dismissed by the degree program with notification to the student and the Graduate School. Students dismissed in this way will not necessarily be dismissed by the Graduate School.

If the situation cannot be rectified, the student will be notified in writing of the grounds for dismissal and the date when the dismissal will be effective. This will normally be the end of the semester in which the student is enrolled, but the circumstances of the dismissal will be important in determining this date.

Students may appeal their dismissal to the Graduate School, following the procedures outlined in the Graduate Student Grievance Policy.

Academic Probation Policy for Graduate Students

Whenever a regularly admitted graduate student earns a cumulative grade-point average below 2.85 on graded course work taken in residence for graduate credit, he/she will be warned of the possibility of academic dismissal. When a graduate student has accumulated a minimum of 15 hours of graded course work taken in residence for graduate credit with a cumulative grade-point average below 2.85, and has received at least one warning, he/she will be academically dismissed from the Graduate School. This policy is effective with students entering the Graduate School in Fall 2002 or after. For the policy in effect before that time, contact the Graduate School. If a student is originally admitted prior to Fall 2002, but does not maintain registration and applies for readmission after Fall 2002, the current policy will apply. The student’s degree program may request that the academic warning period be extended if the program can offer extenuating circumstances as a rationale and is willing to provide a plan of remediation for the student’s success.

Graduate teaching and research assistants and students on Lever, Doctoral, Chancellor, Walton or other fellowships must maintain a cumulative grade-point average of at least 2.85 on all course work taken for graduate credit. If a student’s cumulative GPA falls below 2.85 on 6 or more hours of graduate work (one full-time semester), notification will be sent to the student and his/her department. If the CGPA is below 2.85 at the end of the next major semester (fall or spring), the department will not be allowed to appoint the student to an assistantship/fellowship until
such time as his/her CGPA has been raised to the required level. Note: Individual degree programs may have more stringent requirements.

The Graduate School calculates the cumulative grade-point average on all courses taken for graduate credit at the University of Arkansas. Individual degree programs have the option to calculate the cumulative grade-point average only for those graduate courses taken in residence for the current degree. Consequently, individual degree programs may academically dismiss students whose cumulative grade point average on all graduate course work is above 2.85, but whose work for the current degree is below 2.85. If a program adopts this alternative policy, it must be so stated in the departmental graduate student handbook and in the Graduate Catalog and must apply to all graduate students in that program. When the program anticipates dismissing a student whose cumulative grade-point average is above 2.85, the program must notify the student, using the same process as specified in the general probation policy and must also notify the Graduate School. This policy is effective Fall 2003.

Annual Notice of Student Rights under the Family Educational Rights and Privacy Act (FERPA)

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They are as follows:

1. The right to inspect and review the student's education records, with some exceptions under the Act, within 45 days of the day the University receives a request for access. Students should submit to the Registrar's Office written requests that identify the record(s) they wish to inspect. The appendix to Universitywide Administrative Memorandum 515.1 provides a list of the types and locations of education records, the custodian of those records, and copying fees for each individual campus. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. A sample form, which may be used in making this request, is contained in the appendix to Universitywide Administrative Memorandum 515.1.

   a. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing and is also contained in the Universitywide Administrative Memorandum 515.1.

3. The right to withhold consent of disclosure of directory information, which information: the student’s name; address; telephone number; date and place of birth; nationality; religious preference; major field of study; classification by year; number of hours in which enrolled and number completed; parents’ or spouse’s names and addresses; marital status; participation in officially recognized activities and sports; weight and height of members of athletic teams; dates of attendance including matriculation and withdrawal dates; degrees, scholarships, honors, and awards received, including type and date granted; most recent previous education agency or institution attended; and photograph.
   a. This information will be subject to public disclosure unless the student informs the Registrar’s Office in writing each semester that he or she does not want his information designated as directory information. To prevent publication of name in the printed student directory, written notice must reach the Registrar’s Office by August 31 of the Fall semester.

4. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.
   a. One exception, which permits disclosure without consent, is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an educational record to fulfill his or her professional responsibility.
   b. Upon request, the University also discloses education records without consent to officials for another school in which a student seeks or intends to enroll.

5. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA. The name and address of the office that administers FERPA is as follows:
   a. Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW Washington, DC 20202-4605

6. Universitywide Administrative Memorandum 515.1 is available on request in Mullins Library on campus.

Photographic and Video Images

The university is proud to publish and display photographic and video images of U of A students, their activities and accomplishments. Any student who does not wish to be represented in such photographic and video images by the university should choose to withhold photos on the FERPA option on the university's student information system.

Annual Graduate Student Academic Review

It will be a policy of the Graduate Council that every master's, specialist, and doctoral student will be reviewed annually by his/her degree program for progress toward the degree. At a minimum, the review will cover progress in the following: a) completing courses with an adequate grade-point average; b) completing the thesis/dissertation/project requirements; c) completing all of the required examinations; d) completing other requirements for the degree. When the review of each student is completed, the review form will be signed by the graduate student and the department/program head/chair, as well as other appropriate individuals as designated in the program review policy. This review will be forwarded to the Graduate School, to be included in the student's file. If a student receives two consecutive reviews indicating that the student is not making adequate academic progress, the program and the Graduate School have the option to dismiss the student.
Graduate School Registration and Leave of Absence Policy

All doctoral students who have been admitted to candidacy must enroll in a minimum of one hour of course or dissertation credit every semester (fall, spring, summer) until they graduate. Under unusual circumstances, this enrollment requirement may be waived for post-candidacy doctoral students for up to two years, with an approved request for a leave of absence. To request a leave of absence, the student’s major professor must petition the Graduate Dean, specifying the circumstances that make it necessary for the student to interrupt his/her studies. While a decision will be made on a case-by-case basis, circumstances that might be considered include serious illness of the student or his/her immediate family, serious personal problems, or job-related issues. While the student is on an approved leave of absence, he/she cannot use any University resources, such as the library or faculty time. A post-candidacy doctoral student who takes an unauthorized break in registration by failing to maintain continuous enrollment or failing to obtain a leave of absence will no longer be considered a graduate student at the University of Arkansas. Students who wish to be reinstated will be required to file an Application for Readmission (no fee) and may be required to register for three graduate credits for each term of unauthorized break in registration. In the case of extraordinarily extenuating circumstances, students may appeal the provisions of this policy and request additional terms of leave of absence or forgiveness of the additional credits of registration. Such an appeal must be made to the Graduate Dean.

The student should be aware that the leave of absence policy does not waive the time requirements for a degree. A separate petition must be made for a time extension, if required. Also, a request for leave of absence may not be made for the semester in which the student graduates.

Time Extension

It is a requirement of the Graduate School that master’s and specialist students complete their degrees within six consecutive calendar years from the date of the first courses used to fulfill requirements for the degree and doctoral students complete the degree within seven consecutive calendar years from the semester in which the student was first admitted to the program. Requests to extend these time requirements must be reviewed and approved by the Graduate Dean, following these procedures:

1. The student’s major adviser will fill out a “Request for Time Extension” form (available on the Web site of the Graduate School) and submit this to the Graduate School.
2. For both master’s and doctoral students, the central consideration in determining whether more time can be allowed is whether the student’s knowledge of the subject matter is current at the time of graduation. Therefore, as part of the request for time extension, the major adviser will be asked to explain how this will be ensured:
   - For the master’s degree, the student’s knowledge of any course work over six years old at the time of graduation must be recertified. Please see “Recertification of Student’s Knowledge of Course Content,” below.
   - For the doctoral degree, recertification of the student’s knowledge of course work is not necessary, but the major adviser must explain how the currency of the student’s knowledge of the field will be assessed prior to graduation.
3. Requests for time extension are allowed only for course work taken at the University of Arkansas (Fayetteville). We do not allow time extensions on transfer credit.

Recertification of Student’s Knowledge of Course Content: The major adviser must specify how recertification of the student’s knowledge of course content will occur. By recertification, we mean that the student’s knowledge of the subject matter included in the course is determined to be current at the time of graduation and that the content of that course is still current. There are several ways this may be demonstrated. Examples include: The student is teaching the subject matter in a separate context; the student will be examined by the current instructor of the course to determine his/her currency of knowledge; the student will be examined on the subject matter during his/her final oral defense of the thesis or during the comprehensive exam. It is not acceptable to say only that the content of the course has not changed in the time since the student was enrolled, as the student’s knowledge of that content is also critical. Courses taken more than 10 years prior to the conferral of the degree will normally not be eligible for recertification.

Administrative Requirement for Graduation

Application for graduation must be completed through the ISIS Student Center and fees paid by the appropriate deadline in the semester in which degree requirements will be completed and graduation effected. Instructions for applying to graduate can be found at registrar.uark.edu. If a student fails to complete the degree, the student must then renew the application by contacting the Registrar’s Office. It will not be possible for a student to be cleared to graduate for a previous semester.

Students should be aware that FERPA restrictions on disclosing personally identifiable information may prevent their names being printed in the commencement program and/or being engraved on the sidewalk. Students can change their privacy settings in ISIS at the Student Center pages. Questions about this should be directed to the Office of the Registrar.

Degrees Offered

The faculty of the Graduate School, under the authorization of the Board of Trustees, grants the degrees listed below. In addition, the Graduate School offers several non-degree graduate certificates. The graduate faculty, as represented by the Dean of the Graduate School and through the Graduate Council, has primary responsibility for the development, operating policies, administration, and quality of these programs. Operating through the Graduate Dean, the faculty appoints committees that directly supervise the student’s program of study and committees that monitor research activities and approve theses and dissertations.

- Doctor of Philosophy
- Doctor of Education
- Educational Specialist
- Master of Accountancy
- Master of Athletic Training
- Master of Arts
- Master of Arts in Teaching
- Master of Business Administration
- Master of Education
- Master of Fine Arts
- Master of Information Systems
- Master of Music
Graduate Certificates are offered in the following areas:

- Master of Public Administration
- Master of Public Service (Clinton School)
- Master of Science
- Master of Science in Biological Engineering
- Master of Science in Biomedical Engineering
- Master of Science in Chemical Engineering
- Master of Science in Civil Engineering
- Master of Science in Computer Engineering
- Master of Science in Electrical Engineering
- Master of Science in Engineering
- Master of Science in Environmental Engineering
- Master of Science in Industrial Engineering
- Master of Science in Mechanical Engineering
- Master of Science in Nursing
- Master of Science in Operations Management
- Master of Social Work

**Graduate Certificates (Non-degree)**

As defined by the Arkansas Department of Higher Education, graduate certificate programs consist of 12 to 18 hours of required course work in a focused area of study. The awarding of the certificate will be shown on the student’s transcript. Students must meet the admission requirements of the Graduate School and the certificate program. Students who enter a graduate certificate program may use up to six hours of course work taken previously at the University of Arkansas and may use up to six hours of course work taken at another accredited university to meet certificate requirements, with approval of the program faculty and the Graduate School. The Graduate School does not impose a limit on the number of hours that may be shared between graduate certificate programs, but a limit may be set by the program. Students who enter a graduate certificate program must complete all certificate requirements within six years of admission to the program. For students who have been admitted to both a degree program and a certificate program, courses taken to meet the requirements of one may also be used to meet the requirements of the other, at the discretion of the program and the student’s Advisory Committee.

Graduate Certificates are offered in the following areas:

- Advanced Instrumental Performance (Music)
- Arkansas Curriculum/Program Administrator (Curriculum and Instruction)
- Autism Spectrum Disorders (Curriculum and Instruction)
- Building-Level Administration (Curriculum and Instruction)
- District-Level Administration (Curriculum and Instruction)
- Educational Measurement (Educational Statistics and Research Methods)
- Educational Program Evaluation (Educational Statistics and Research Methods)
- Educational Psychology (Educational Statistics and Research Methods)
- Educational Statistics and Research Methods (Educational Statistics and Research Methods)
- Enterprise Systems (Graduate School of Business)
- Entrepreneurship (Graduate School of Business)
- Preparing for the Professoriate (Interdisciplinary)
- STEM Education for Early Childhood (Curriculum and Instruction)
- Sustainability (Interdisciplinary)

**Master of Arts, Master of Science**

General minimum requirements of the Graduate School follow for the degrees of Master of Arts, Master of Science – including the several engineering degrees – and Master of Fine Arts. Program requirements may be higher. Note: For degree requirements in the Master of Arts in Economics, see the Graduate School of Business.

1. 24 graduate semester hours and a thesis, or 30 semester hours without a thesis. (The thesis may be a departmental requirement or may be required by the major adviser.)
2. A comprehensive examination.
3. A minimum cumulative grade-point average of 2.85. (Individual departments may have higher grade standards.)
4. Minimum residence of 24 weeks. (See Residence Requirements.)

**Program of Study.** At the time of admission to the Graduate School and acceptance in a program of study leading to a graduate degree, the student is assigned to a major adviser. The choice of a major adviser is largely determined by the student’s choice of a major subject.

The program of study may consist of courses chosen from one department or it may include such cognate courses from other departments as may in individual instances seem to offer greatest immediate and permanent value. As a general principle, two-thirds of the courses come from the degree program in which the student is seeking a graduate degree. The program of study must be approved by the student’s Advisory Committee or, depending on program requirements, the Thesis Committee. No more than six hours of special problems (individual study) courses may count toward a 30 hour master’s degree.

A student who writes a master’s thesis must register for a minimum of six semester hours of master’s thesis. No more than six semester hours of master’s thesis enrollment may be given credit in the degree program.

Students wishing to take 3000-level undergraduate courses for graduate credit will find the necessary forms on the Graduate School website (http://grad.uark.edu). Courses numbered at the 3000 level may be taken by graduate students for graduate credit only when the courses are not in the student’s major area of study and when the courses have been approved by the Dean of the Graduate School for graduate credit. The instructor for the course must hold graduate faculty status and must certify that he/she will make appropriate adjustments in assignments and grading scales to raise the level of expectation for the student to the graduate level. No more than 20 percent of the graded course work in the degree program may be comprised of 3000-level courses carrying graduate credit. Undergraduate courses numbered below 3000 will not be allowed to carry graduate credit.

Students wishing to take 4000-level undergraduate courses for graduate credit will find the necessary forms on the Graduate School website (http://grad.uark.edu). The instructor for the course must hold graduate faculty status and must certify that he/she will make appropriate adjustments in assignments and grading scales to raise the level of expectation for the student to the graduate level.

Under ordinary circumstances graduate registration is limited to 18 hours for any one semester including undergraduate courses and courses audited. Registration above 15 hours must be approved by the Graduate Dean.
All requirements for a master’s degree must be satisfied within six consecutive calendar years from the first semester of enrollment in the program.

Transfer of Credit. The University of Arkansas will permit a student to transfer six hours of graduate credit from an accredited graduate school in the United States as part of the master’s program, provided that the grades are “B” or better, the courses were taken within six years previous to the conferral of the current degree, and the subjects are acceptable to the program concerned. (The transfer of graduate credit from institutions outside the United States is at the discretion of the Graduate Dean.) This does not, however, reduce the minimum requirement of 24 weeks of residence for the master’s degree as set by state law. Students contemplating transfer of credit should consult with the Graduate School Office in advance. Please see transfer of credit regulations, below.

Transfer of Credit Regulations Established by the Graduate School for the Various Master’s Degrees:

Transfer of Credit is permissible for master’s programs only. Transfer of credit is not acceptable for doctoral degrees. For doctoral candidates, at the discretion of the advisory committee, the program of study may be adjusted in lieu of work taken at other colleges or universities and recognized by the candidate’s committee, but it will not appear on the University of Arkansas academic record.

Criteria for Acceptable Transfer Credit:

1. The course must have been regularly offered by a regionally accredited graduate school.
2. The course must have been a bona fide graduate level course, approved for graduate credit and taught by a member of the graduate faculty.
3. The student desiring to transfer graduate credit must have been enrolled as a graduate student in the graduate school at the institution offering the course.
4. The course must appear on an official transcript as graduate credit from the institution offering the course.
5. The course grade must be a “B” or “A.” (The student’s grade-point average is NOT to include grades on transfer courses.)
6. The course must be recommended by the student’s major adviser and be applicable to the degree requirement at the University of Arkansas.
7. The course must not have been taken as a self-paced online (correspondence) course or for extension credit.
8. The course must be acceptable to the department concerned and to the Graduate Dean.
9. The student must have satisfied the 24-week residence requirements. (The student must have satisfactorily completed a total of 24 hours of graded graduate course work taken in residence.)
10. The course must have been taken within the time limit of the student’s program at the University of Arkansas.
11. Credit from foreign universities is typically not acceptable for transfer because of academic and procedural differences between U.S. regionally accredited and foreign institutions, but petition may be made to the Graduate Dean on a case by case basis.

Note: Graduate credit cannot be transferred to satisfy any of the requirements for the M.B.A. degree unless the school at which the course was taken is accredited by A.A.C.S.B. This requirement is not specified by the Graduate School, but by the Graduate School of Business.

Ex Officio Committee Members: Student committees may contain ex officio members who have graduate faculty status on the University of Arkansas campus. However, when a person does not hold graduate faculty status on the University of Arkansas campus, he/she may still be allowed to hold an ex officio position on a student’s committee, in accordance with the following policy: When a committee member does not hold graduate faculty status at the University of Arkansas, he/she will be allowed to serve on a student’s master’s thesis or doctoral dissertation committee, in addition to the minimum number of members required by the Graduate School or the department/program. The ex officio member will be allowed to sign the thesis or dissertation and his/her vote will be recorded but will not be binding for conferring the degree. This use of the term ex officio will indicate that the person does not hold graduate faculty status at the University of Arkansas and is serving in an honorary role.

Conflict of Interest Policies for Graduate Committees: Students should be aware that the Graduate School has policies pertaining to the composition of advisory and thesis committees. These may be found in the Graduate Student Handbook on the Graduate School website.

Residence Requirements. The candidate must present a minimum of 24 weeks of course hours taken in residence at the University of Arkansas, Fayetteville. A total of 12 hours of residence may be accredited from University of Arkansas off-campus graduate courses (restriction does not apply to graduate degree programs offered through the Graduate Residence Centers, see page 21) or for work done in off-campus classes held in Fayetteville. Acceptance of transferred credit does not reduce the minimum residence requirement of 24 weeks of course hours taken on the University of Arkansas, Fayetteville, campus or through approved University of Arkansas, Fayetteville, distance courses.

Thesis. The title of the thesis must be recommended by the thesis director and the thesis committee and be approved by the Dean of the Graduate School at least three months before the date of the comprehensive examination. The thesis must be submitted for approval to the thesis committee consisting of a minimum of three faculty members who have been approved by the Dean of the Graduate School. This committee must receive the thesis in time for the student to defend the thesis and submit it to the Graduate School by the posted deadline date. In the situation where there is a split decision among committee members of a master’s program advisory or thesis committee, majority rules. For instructions on submitting an approved thesis, students should consult the Graduate School’s Guide to Preparing Theses and Dissertations. Students will be required to submit their theses to University Microfilms Incorporated (UMI/ProQuest). There will be an additional charge for this submission.

Comprehensive Examination/Thesis Defense. In addition to completing other requirements, the candidate for a master’s degree must take a comprehensive examination, which may be oral and/or written as recommended by the major department. If the student has completed a thesis, the final defense of the thesis must be oral. This can substitute for the comprehensive examination, if the department so chooses. If the final defense of the thesis substitutes for the comprehensive examination, the examination may include other aspects of the candidate’s graduate work. All members of the thesis committee (and advisory committee, if the thesis defense substitutes for the comprehensive examination) must participate in the thesis defense unless the Dean of the Graduate School has approved an exception. If a committee member does not participate in the final oral defense, that person will be asked by the Graduate School to resign from the committee. While this examination is typically not open to the public (unlike the doctoral dissertation defense), the student’s committee chair may, with the approval of the student, open the defense
to selected members of the public. Questions from the public are at the discretion of the committee chair. The chair will insure that questions from the public are appropriate by disallowing those which are not.

Students may elect to participate by distance through electronic means in their final oral defense of the thesis, if approved by the thesis faculty director. In advance of the final oral defense, the student must provide to the Graduate School a written, signed statement that he/she has elected this option.

**Grade-Point Average.** To receive a master’s degree, a candidate must present a minimum cumulative grade-point average of 2.85 on all graduate courses required for the degree, unless the department requires a higher grade point average. Failing to earn such an average on the minimum number of hours, the student is permitted to present up to six additional hours of graduate credit to accumulate a grade-point average of 2.85. In the computation of grade point, all courses pursued at this institution for graduate credit (including any repeated courses) shall be considered. Students who repeat a course in an endeavor to raise their grade must count the repetition toward the maximum of six additional hours. Students should also be aware that they may not use for degree credit any course in which they received a grade of D or F. Individual departments may have higher grade standards.

**Split Decisions among Advisory and Thesis Committees.** When a split decision occurs among committee members of a master’s advisory or thesis committee, the majority decision will hold.

**Sharing Courses Between Two Degrees.** When a student earns two master’s degrees, no more than six hours of course work may be used to satisfy the requirements of both degrees, i.e. shared between the degrees. This rule pertains whether the course work is taken on the University of Arkansas campus or is transferred from another university.

**Master of Accountancy**  
See the accounting program in the Graduate School of Business (p. 181).

**Master of Arts in Teaching**  
See the Childhood Education (p. 78) program or the Secondary Education (p. 164) program.

**Master of Business Administration**  
See the Graduate School of Business (p. 181).

**Master of Education**  
See the Curriculum and Instruction (p. 164) program or the Secondary Education (p. 164) program.

**Master of Fine Arts in Art**  
See the Art program (p. 61).

**Master of Fine Arts in Creative Writing**  
See the Creative Writing program (p. 89).

**Master of Fine Arts in Drama**  
See the Drama program (p. 177).

**Other Requirements for M.F.A. Degrees**  
The policies and procedures approved for the Master of Arts and the Master of Science degrees also apply to the Master of Fine Arts degrees.

In addition to completing other requirements, the candidate must pass a comprehensive examination administered by the respective program area.

**Master of Information Systems**  
See the Graduate School of Business (p. 181).

**Master of Public Service**  
See the Clinton School of Public Service (p. 80).

**Master of Science in Nursing**  
See the Nursing program (p. 145).

**Master of Social Work**  
See the Social Work program (p. 167).

**Education Specialist Degree**  
The Educational Specialist degree (Ed.S.) has two areas of specialization – curriculum and instruction, and educational leadership – and may be issued by the Graduate School to those students whose major objective is to develop educational competency in one of these specialized areas. All graduate courses applicable to this degree must be taken on the Fayetteville campus unless otherwise specified.

All requirements for the Educational Specialist degree with specialization in educational leadership may be completed at the Graduate Resident Centers in the University of Arkansas at Pine Bluff, University of Arkansas Community College at Hope, and Phillips Community College of the University of Arkansas at Helena.

**Admission to the Program.** Admission to the Educational Specialist degree program is based on the total profile of the applicants’ educational background and their career objectives. After students have been admitted to the Graduate School, they may seek acceptance in one of the program areas of specialization. All students seeking admission must meet the following admission criteria:

1. Completed a master’s degree or its equivalent in a related field.
2. Presented a Graduate Record Examinations general score on three parts (verbal, quantitative, and analytical) or a Miller Analogies Test score. These scores are considered as part of the applicant’s profile. Required scores may vary within given programs.
3. Attained a cumulative grade-point average of at least 3.25 on all graduate course work before being admitted into the Specialist program.
4. Students with a 3.00 to 3.25 cumulative grade-point average in all graduate courses must present a combined minimum Graduate Record Examinations general score of 1300 on three parts (verbal, quantitative, and analytical) or 55 on the Miller Analogies Test.
5. Two years of successful professional experience, or equivalent, in an area related to the student’s academic goals prior to the completion of the degree.
6. A minimum of three letters of recommendation from individuals capable of commenting on qualification for graduate study.
7. A personal interview with the program area graduate faculty. This evaluative process will subjectively measure factors such as poise, professional objectives, professional commitment, and ability to discuss professional problems.

**General Requirements.** All Ed.S. programs contain a minimum of 30 semester hours of graduate work beyond the master’s degree in a planned program. The program for each student must include the
requirements specified in the particular program to which the student has been accepted; assessed deficiencies in the area of specialization; assessed courses to meet current professional requirements of the Master of Education degree; a minimum of nine semester hours of graduate work in a related field(s) other than the area of specialization; a graduate course in research, statistics, or data processing applicable for educational specialists; and an original project, research paper, or report for which variable credit up to six semester hours is required. A grade-point average of 3.25 is required for the Ed.S. degree program on all work presented as part of the Ed.S. degree program.

After a student is accepted into an Ed.S. program, a committee with a minimum of three members will be appointed, and a program of study will be established outlining the minimum requirements. Only the adviser and one other member of the student’s committee may be from the program area sponsoring the program. The committee’s responsibilities include the determination of deficiencies, the acceptability of previous graduate work, the approval of the candidate’s program of study, the approval of the original project or research paper, and the conduct of a final examination. This examination will be a comprehensive oral evaluation scheduled near the end of the candidate’s program and will include one or both of the following: 1) evaluation of the original project, research paper, or report, and 2) evaluation covering material related to the background and professional preparation of the candidate. A written examination may not be taken to substitute for the oral examination. A written account of the original project, research paper, or report will be filed with the program area sponsoring the candidate’s program of study.

The last 30 hours of the program must be completed within a period of six years from the first semester of admission to the program. A minimum of 30 weeks of resident study at the University of Arkansas, Fayetteville, in an approved program is required. Credit earned in any University of Arkansas center, off-campus workshop or special course will not count as residence study in the Ed.S. program. The only exception is course work completed at the University of Arkansas at Pine Bluff Graduate Resident Center by students pursuing the Ed.S. degree in education with a specialization in educational leadership; the University of Arkansas Community College at Hope Graduate Resident Center and Phillips Community College of the University of Arkansas at Helena Graduate Resident Center by students pursuing the Ed.S. degree in education with a specialization in educational leadership.

Upon completion of all requirements, candidates are issued an Educational Specialist degree. Their names appear on the commencement program, but there is no distinctive academic regalia in connection with the Educational Specialist degree.

**Doctors of Philosophy (Ph.D.) and Education (Ed.D.)**

Programs of advanced study leading to the degree of Doctor of Philosophy (Ph.D.) are offered in: animal science, anthropology, biology, business administration, cell and molecular biology, chemistry, community health promotion, comparative literature and cultural studies, computer science, counselor education, crop, soil, and environmental sciences, curriculum & instruction, economics, engineering, education policy, educational statistics and research methods, English, entomology, environmental dynamics, food science, geosciences, history, kinesiology, mathematics, microelectronics-photonics, philosophy, physics, plant science, poultry science, psychology, public policy, rehabilitation, and space and planetary sciences. (Note: For the Ph.D. in Business Administration and Economics, see the Graduate School of Business.)

Programs of advanced study leading to the degree of Doctor of Education (Ed.D.) are offered in adult and lifelong learning, educational leadership, higher education, recreation and sport management, and human resource and workforce development education.

The degrees of Doctor of Philosophy and Doctor of Education are awarded in recognition of high scholarly attainment as evidenced by a period of successful advanced study with at least a 3.0 cumulative graduate grade-point average (2.85 for those students admitted to the Graduate School prior to Fall 2001), the satisfactory completion of certain prescribed examinations, and the development of a dissertation covering some significant aspect of a major field of learning.

Students who wish to become candidates for the degree of Doctor of Philosophy or Doctor of Education are expected to complete work equivalent to the requirements for the master’s degree as determined by program faculty and must apply to be admitted to the Graduate School and the specific program of study. A student cannot satisfy any part of the residence requirement for the doctoral degree until after he/she has been officially admitted to the doctoral degree program.

Immediately after admission to the program, with the approval of the Dean of the Graduate School, a Doctoral Program Advisory Committee will be appointed from the graduate faculty to evaluate the student’s preparation and fitness for further graduate work. This committee will serve in an advisory capacity in working out and directing a suitable program of advanced study and investigation. The student’s major adviser shall serve as chair of the committee. Appointment of this committee does not constitute admission to candidacy for the degree of Doctor of Philosophy or Doctor of Education, a very important and significant step in the student’s graduate career, which must be taken after the student has completed approximately two years of graduate work beyond the baccalaureate degree.

The degree must be completed within seven consecutive calendar years from the first semester of admission to the program.

**Program of Study.** The objectives of the program of study leading to the degree of Doctor of Philosophy or Doctor of Education shall be scholarly achievement of high order and the development of a fundamental understanding of the major field and its relation to supporting fields of knowledge, rather than the satisfactory completion of a certain number of credit hours. The nature of the program of study will vary somewhat, depending upon the major field of study and the objective of the prospective candidate.

**Ex Officio Committee Members:** Student committees may contain ex officio members who have graduate faculty status on the University of Arkansas campus. However, when a person does not hold graduate faculty status on the University of Arkansas campus, he/she may still be allowed to hold an ex officio position on a student’s committee, in accordance with the following policy:

When a committee member does not hold graduate faculty status at the University of Arkansas, he/she will be allowed to serve on a student’s master’s thesis or doctoral dissertation committee, in addition to the minimum number of members required by the Graduate School or the department/program. The ex officio member will be allowed to sign the thesis or dissertation and his/her vote will be recorded but will not be binding for conferring the degree. This use of the term ex officio will indicate that the person does not hold graduate faculty status at the University of Arkansas and is serving in an honorary role.
Conflict of Interest Policies for Graduate Committees: Students should be aware that the Graduate School has policies pertaining to the composition of advisory and dissertation committees. These may be found in the Graduate Student Handbook on the Graduate School website.

Transfer of Credit. Transfer of credit is not acceptable for doctoral degrees. For doctoral candidates, at the discretion of the advisory committee, the program of study may be adjusted in lieu of work taken at other colleges or universities and recognized by the candidate’s committee, but it will not appear on the University of Arkansas academic record.

Grade-Point Average Requirement. A minimum cumulative graduate grade-point average of 3.0 is required to earn a Doctor of Philosophy or Doctor of Education degree. Note: For students admitted to the Graduate School prior to Fall 2001, the minimum cumulative graduate grade-point average required to earn a Doctor of Philosophy or Doctor of Education degree was 2.85. Students should also be aware that they may not present for degree credit any course in which they earned a grade of D or F.

Language Requirement. Foreign language requirements for the Doctor of Philosophy degree vary from department to department. For specific details see departmental statements. These requirements should be completed early in the doctoral program. The Doctor of Education degree does not have a foreign language requirement.

Examination for Candidacy. After completing approximately two years of graduate study, the prospective candidate must take candidacy examinations in specified fields of study in accordance with the requirements of the program/department in which the candidate is working. These examinations may be either written or written and oral, but the expectation is that their purpose is to determine if a student is prepared to move to the independent research stage of his/her degree. Upon satisfactorily completing these examinations, the student may be admitted to candidacy and may proceed to work toward completion of the remaining requirements for the degree. The Graduate School should be notified within two weeks of the student being admitted to candidacy. Note: The Graduate School considers the Advisory Committee to be responsible for administering and evaluating the candidacy examinations, but degree programs may have different structures.

Registration. All doctoral students who have been admitted to candidacy must enroll in a minimum of one hour of graduate course work or dissertation credit every semester (fall, spring, summer) until they graduate. Under unusual circumstances, this enrollment requirement may be waived for post-candidacy doctoral students for up to two years, with an approved request for a leave of absence. See the Graduate School Registration and Leave of Absence Policy.

Dissertation. Each candidate must complete a doctoral dissertation on some topic in the major field. The topic assignment shall be made and a title filed with the Dean of the Graduate School at least one year before the final examination, the specific problem and subject of the dissertation to be determined by the major adviser, the candidate, and the advisory committee. The completed dissertation must be a definite, scholarly contribution to the major field. This contribution may be in the form of new knowledge of fundamental importance, or of modification, amplification, and interpretation of existing significant knowledge.

Each doctoral candidate must register for a minimum of 18 hours of dissertation (or graded course work) each semester and one hour during the summer session until the work is completed, whether the student is in residence or away from the campus. Before the final degree is conferred, registration will be assessed for each semester in which a student fails to register without prior approval of the Dean of the Graduate School.

The dissertation must be submitted for approval to the dissertation committee consisting of a minimum of three faculty members who have been approved by the Dean of the Graduate School. This committee must receive the dissertation in time for the student to defend the dissertation and submit it to the Graduate School by the posted deadline date. For instructions on submitting an approved dissertation, students should consult the Graduate School's Guide to Preparing Theses and Dissertations. Students will be required to submit their dissertations to University Microfilms Incorporated (UMI/ProQuest).

Final Examination. The candidate's final examination for the degree of Doctor of Philosophy or Doctor of Education will be oral. At least two weeks in advance, the major adviser will forward to the Dean of the Graduate School notification about the date, time and place of the final oral examination. The examination will be primarily concerned with the field of the dissertation, but may also include other aspects of the candidate's graduate work. The doctoral dissertation committee is responsible for insuring that the dissertation contributes new knowledge of fundamental importance or significantly modifies, amplifies, or interprets existing knowledge in a new and important manner. All members of the dissertation committee must participate in the final oral defense of the dissertation unless the Dean of the Graduate School has approved an exception. This participation may be by distance. If they do not participate in the final oral defense, in person or by distance, they will be asked by the Graduate School to resign from the committee. While this examination is open to the public, the exam is controlled by the student's committee chair. Questions from the public are at the discretion of the committee chair. If the committee chair expects to allow questions from the public, the student must be so advised. The chair will insure that questions from the public are appropriate by disallowing those which are not.

Students may elect to participate by distance through electronic means in their final oral defense of the dissertation, if approved by the dissertation faculty director. In advance of the final oral defense, the student must provide to the Graduate School a written, signed statement that he/she has elected this option.

Split Decisions Within Advisory and Dissertation Committees. In the situation when there is a split decision among committee members of a doctoral program advisory or dissertation committee, the situation must be resolved to the satisfaction of each committee member. In the event that each committee member is not satisfied, the committee member may insist on the necessary steps to reach a resolution or elect to step down from the committee. In unusual circumstances, the Dean of the Graduate School may remove a faculty member from a student’s thesis/dissertation or advisory committee, or make an alternative arrangement (e.g., assign a representative from the Graduate faculty to serve on the committee).

Academic Integrity

As a core part of its mission, the University of Arkansas provides students with the opportunity to further their educational goals through programs of study and research in an environment that promotes freedom of inquiry and academic responsibility. Accomplishing this mission is only possible when intellectual honesty and individual integrity prevail. Each University of Arkansas student is required to be familiar with and abide by the university’s Academic Integrity Policy (http://honesty.uark.edu/policy) at honesty.uark.edu. Students with questions about how these policies apply
to a particular course or assignment should immediately contact their instructor.

This page includes information and policies about the following:

- Academic Grievance Procedures for Graduate Students
- Grievance Policy and Procedures for Graduate Assistants
- Research and Scholarly Misconduct Policies and Procedures

**Academic Grievance Procedures for Graduate Students**

The Graduate School of the University of Arkansas recognizes that there may be occasions when a graduate student has a grievance about some aspect of his/her academic involvement. It is an objective of this University that such a graduate student may have prompt and formal resolution of his or her personal academic grievances and that this be accomplished according to orderly procedures. Below are the procedures to be utilized when a graduate student has an academic grievance with a faculty member or administrator. If the student has a grievance against another student or another employee of the University, or if the student has a grievance which is not academic in nature, the appropriate policy may be found by contacting the Office of Affirmative Action or the office of the Graduate Dean. For policies and procedures pertaining to conduct offenses, consult the Code of Student Life.

NOTE: Master’s students in the Graduate School of Business should follow the grievance procedures for that School.

**Definition of Terms**

Academic grievance. An academic grievance means a dispute concerning some aspect of academic involvement arising from an administrative or faculty decision which the graduate student claims is unjust or is in violation of his or her rights. The Graduate School considers any behavior on the part of a faculty member or an administrator, which the student believes to interfere with his/her academic progress, to be subject to a grievance. While an enumeration of the students’ rights with regard to their academic involvement is not possible or desirable, we have provided a short list as illustration. However, as in all cases involving individual rights, whether a specific behavior constitutes a violation of these rights can only be decided in context, following a review by a panel of those given the authority to make such a decision.

In general, we consider that the graduate student:

1. has the right to competent instruction;
2. is entitled to have access to the instructor at hours other than class times (office hours);
3. is entitled to know the grading system by which he/she will be judged;
4. has the right to evaluate each course and instructor;
5. has the right to be treated with respect and dignity.

In addition, an academic grievance may include alleged violations of the affirmative action plans of the University as related to academic policies and regulations, as well as disputes over grades, course requirements, graduation/degree program requirements, thesis/dissertation/advisory committee composition, and/or adviser decisions.

Formal academic grievance. An academic grievance is considered formal when the student notifies the Graduate Dean, in writing, that he/she is proceeding with such a grievance. The implications of this declaration are: 1) all correspondence pertaining to any aspect of the grievance will be in writing and will be made available to the Graduate Dean; 2) all documents relevant to the case, including minutes from all relevant meetings, will be part of the complete written record and will be forwarded to the Graduate Dean upon receipt by any party to the grievance; 3) the policy contained herein will be strictly followed; and 4) any member of the academic community who does not follow the grievance policy will be subject to disciplinary actions. Filing a formal academic grievance is a serious matter, and the student is strongly encouraged to seek informal resolution of his/her concerns before taking such a step.

**Complete Written Record.** The “complete written record” refers to all documents submitted as evidence by any party to the complaint, as subject to applicable privacy considerations.

NOTE: Because the tape recordings of committee meetings may contain sensitive information, including private information pertaining to other students, the tape or a verbatim transcription of the tape will not be part of the complete written record. However, general minutes of the meetings, documenting the action taken by the committees, will be part of the complete written record.

**Graduate student.** Under this procedure, a graduate student is any person who has been formally admitted into the Graduate School of the University of Arkansas, Fayetteville, and who is enrolled as a graduate-level student at the time the alleged grievance occurred.

**Working Days.** Working days shall refer to Monday through Friday, excluding official University holidays.

**Procedures**

NOTE: Master’s students in the Graduate School of Business should follow the grievance procedures for that School.

1. Individuals should attempt to resolve claimed grievances first with the person(s) involved, within the department, and wherever possible, without resort to formal grievance procedures. The graduate student should first discuss the matter with the faculty member involved, or with the faculty member’s chairperson or area coordinator. The student’s questions may be answered satisfactorily during this discussion. The student may also choose to contact the University Ombuds Office or, if the grievance is with the departmental chairperson or area coordinator, with the academic dean or the Graduate Dean, for a possible informal resolution of the matter.

2. If a graduate student chooses to pursue a formal grievance procedure, the student shall take the appeal in written form to the appropriate departmental chairperson/area coordinator, and forward a copy to the Graduate Dean. In the case of a grievance against a departmental chairperson or an area coordinator who does not report directly to a departmental chairperson, or in the absence of the chairperson/coordinator, the student will go directly to the dean of the college or school in which the alleged violation has occurred, or to the Graduate Dean. In any case, the Graduate Dean must be notified of the grievance. After discussion between the chairperson/coordinator/dean and all parties to the grievance, option 2a, 2b, or 3 may be chosen.

   a. All parties involved may agree that the grievance can be resolved by a recommendation of the chairperson/coordinator/dean. In this case, the chairperson/coordinator/dean will forward a written recommendation to all parties involved in the grievance within 20 working days after receipt of the written grievance. The chairperson/area coordinator/dean is at liberty to use any appropriate method of investigation, including personal interviews...
and/or referral to an appropriate departmental committee for recommendation.

b. Alternatively, any party to the grievance may request that the departmental chairperson/area coordinator/dean at once refer the request, together with all statements, documents, and information gathered in his or her investigation, to the applicable departmental group (standing committee or all graduate faculty of the department). The reviewing body shall, within ten working days from the time its chairperson received the request for consideration, present to the department chairperson/coordinate/dean its written recommendations concerning resolution of the grievance. Within ten working days after receiving these recommendations, the department chairperson/area coordinator/dean shall provide all parties to the dispute with copies of the reviewing body’s recommendation and his or her consequent written decision on the matter.

3. If the grievance is not resolved by the procedure outlined in step 2, or if any party to the grievance chooses not to proceed as suggested in 2, he/she will appeal in writing to the Dean of the Graduate School. When, and only when, the grievance concerns the composition of the student’s thesis/dissertation committee or advisory committee, the Graduate Dean will proceed as described in step 5 (following).

In all other cases, whenever a grievance comes to the attention of the Dean of the Graduate School, either as a result of a direct appeal or when a grievance has not been resolved satisfactorily at the departmental/academic dean level, the Dean of the Graduate School will consult with the person alleging the grievance. If that person decides to continue the formal grievance procedure, the Graduate Dean will notify all parties named in the grievance, the departmental chairperson/area coordinator, and the academic dean that a formal grievance has been filed. Within ten working days, the Dean of the Graduate School will: 1) with the consent of the student, appoint a faculty member as the student’s advocate, and 2) notify the Academic Appeals Subcommittee of the Graduate Council, which will serve as the hearing committee. The Associate Dean of the Graduate School will serve as the chair of the grievance committee and will vote only in the case of a tie. A voting member of the Graduate Council who is not a member of the Academic Appeals Subcommittee will serve as the non-voting secretary of the committee. The committee shall have access to witnesses and records, may take testimony, and may make a record by taping the hearing. Its charge is to develop all pertinent factual information (with the exception that the student and faculty member/administrator will not be required to be present in any meeting together without first agreeing to do so) and, on the basis of this information, to make a recommendation to the Graduate Dean to either support or reject the appeal. The Graduate Dean will then make a decision based on the committee’s recommendation and all documents submitted by the parties involved. The Graduate Dean’s decision, the committee’s written recommendation and a copy of its complete written record (excluding those in which other students have a privacy interest) shall be forwarded to the person(s) making the appeal within 20 working days from the date the committee was first convened; copies shall be sent simultaneously to other parties involved in the grievance and to the dean of the college in which the alleged violation occurred. A copy shall be retained by the Graduate School in such a way that the student’s privacy is protected.

4. When, and only when, the grievance concerns a course grade and the committee’s recommendation is that the grade assigned by the instructor should be changed, the following procedure applies. The committee’s recommendation that the grade should be changed shall be accompanied by a written explanation of the reasons for that recommendation and by a request that the instructor change the grade. If the instructor declines, he or she shall provide a written explanation for refusing. The committee, after considering the instructor’s explanation and upon concluding that it would be unjust to allow the original grade to stand, may then recommend to the department chair that the grade be changed. The department chair will provide the instructor with a copy of the recommendation and ask the instructor to change the grade. If the instructor continues to decline, the department chair may change the grade, notifying the instructor, the Graduate Dean, and the student of the action. Only the department chair, and only on recommendation of the committee, may change a grade over the objection of the instructor who assigned the original grade. No appeal or further review is allowed from this action. All grievances concerning course grades must be filed within one calendar year of receiving that grade.

5. When, and only when, a student brings a grievance concerning the composition of his/her thesis/dissertation or advisory committee, the following procedure will apply. The Dean of the Graduate School shall meet with the graduate student and the faculty member named in the grievance and shall consult the chair of the committee, the departmental chairperson/area coordinator, and the academic dean, for their recommendations. In unusual circumstances, the Dean of the Graduate School may remove a faculty member from a student’s thesis/dissertation committee or advisory committee, or make an alternative arrangement (e.g. assign a representative from the Graduate faculty to serve on the committee). With regard to the chair of the dissertation/thesis committee (not the advisory committee), the Graduate School considers this to be a mutual agreement between the faculty member and the student to work cooperatively on a research project of shared interest. Either the graduate student or the faculty member may dissolve this relationship by notifying the other party, the departmental chairperson, and the Graduate Dean. However, the student and the adviser should be warned that this may require that all data gathered for the dissertation be abandoned and a new research project undertaken, with a new faculty adviser.

6. If a grievance, other than those covered by step 4, is not satisfactorily resolved through step 3 or 5, an appeal in writing and with all relevant material may be submitted for consideration and a joint decision by the Chancellor of the University of Arkansas, Fayetteville, and the Provost/Vice Chancellor for Academic Affairs. This appeal must be filed within 20 working days of receiving the decision of the Graduate Dean. Any appeal at this level shall be on the basis of the complete written record only, and will not involve interviews with any party to the grievance. The Chancellor of the University of Arkansas, Fayetteville, and the Provost/Vice Chancellor for Academic Affairs shall make a decision on the matter within 20 working days from the date of receipt of the appeal. Their decision shall be forwarded in writing to the same persons receiving such decision in step 3. Their decision is final pursuant to the delegated authority of the Board of Trustees.

7. If any party to the grievance violates this policy, he/she will be subject to disciplinary action. When alleging such a violation, the aggrieved individual shall contact the Graduate Dean, in writing, with an explanation of the violation.

**Grievance Policy and Procedures for Graduate Assistants**

NOTE: Graduate Assistants in the Graduate School of Business should follow the grievance procedures for that School.
Introduction

It is the philosophy of the Graduate School that assistantships are not typical employee positions of the University. This has two implications. First, the sponsor should also serve as a mentor to the student and assist, to the extent possible, in facilitating the student’s progress toward his/her degree. Second, any questions concerning performance in or requirements of assistantships shall be directed to the Graduate School or, for master’s students in business, to the Graduate School of Business. Note: the term graduate assistant will be used to refer to those on other types of appointments as well, such as fellowships, clerkships, etc.

The Graduate School has the following authority with regard to graduate assistantships:

1. All requests for new positions, regardless of the source of the funds, must be approved by the Graduate School. When the position is approved, the requesting department or faculty member must complete the form “Request for a New Graduate Assistant Position” and submit it to the Graduate School. All proposed changes in duties for existing graduate assistantships must be approved by the Graduate School prior to their implementation.

2. The duty requirements of the graduate assistantship, including the number of hours required, must be approved by the Graduate School. Fifty percent GAs may not be asked to work more than 20 hours per week (Note: this is not limited to time actually spent in the classroom or lab; the 20 hour requirement also pertains to time required to grade/compute results, develop class/lab materials, etc. Moreover, students cannot be asked to work an average of 20 hours per week, with 30 hours one week and 10 hours the next, for example. The duty hour requirement is no more than 20 hours per week for a 50 percent appointment. See the Graduate Handbook. However, it should also be noted that if the student is engaged in research which will be used in his/her required project, thesis or dissertation, or if the student is traveling to professional meetings, data sources, etc., the student may work more than 20 hours per week.) The duty requirements must complement the degree program of the graduate student and must abide by the philosophy that the first priority of graduate students is to finish their degrees. If a student is assigned to teach, the maximum duty assignment is full responsibility for two-three hour courses per semester.

3. The Graduate School has set the following limits on holding graduate assistantships (not fellowships): Master’s students may hold a graduate assistantship for no more than four major semesters; a doctoral student may hold a graduate assistantship for no more than eight major semesters; a student who enters a doctoral program with only a baccalaureate degree may hold a graduate assistantship for no more than ten major semesters. The department/program may petition the Graduate School for extensions to these requirements on a case by case basis.

4. The Graduate School, in consultation with the Graduate Council, has the right to set the enrollment requirements for full-time status for graduate assistants (as well as graduate students in general).

5. The Graduate School sets the minimum stipend for graduate assistantships, but does not have responsibility for setting the actual stipend.

Graduate assistants may be terminated from their positions at any time, or dismissed for cause (Board Policy No. 405.4). Termination is effected through the giving of a notice, in writing, of that action at least 60 days in advance of the date the employment is to cease. The notice should explain the reasons for the termination of the assistantship. A copy of the notice must be sent to the Graduate Dean.

A graduate assistant has the right to request a review of the termination by the Graduate Dean, following the procedure given below. Students also may seek the assistance of the University Ombuds Office, prior to the filing of a formal grievance. However, a student should be warned that if the grounds for dismissal are based on any of the following, the only defense to the termination is evidence to show that the charges are not true:

1. The student fails to meet the expectations of the assistantship positions, as outlined in the initial written statement provided to him/her at the beginning of the appointment.

2. The student provides fraudulent documentation for admission to his/her degree program and/or to his/her sponsor in applying for the assistantship position.

3. The student fails to meet certain expectations, which need not be explicitly stated by the sponsor, such as the expectation that:
   a. the student has the requisite English language skills to adequately perform the duties of the position;
   b. the student has the appropriate experience and skills to perform the duties of the position; and
   c. the student maintains the appropriate ethical standards for the position. The Research Misconduct Policy provides one reference source for such ethical standards.

4. The student fails to make good progress toward the degree, as determined by the annual graduate student academic review and defined by program and Graduate School policies.

5. The assistantship position expires.

Definition of Terms

Graduate Assistant. Any graduate student holding a position which requires that the student be admitted to a graduate degree program of the University of Arkansas, regardless of the source of funds, and for whom tuition is paid as a result of that position.

Sponsor. The person responsible for the funding and duty expectations for the graduate assistant.

Formal graduate assistant grievance. Any dispute concerning some aspect of the graduate assistantship, as defined above, which arises from an administrative or faculty decision that the graduate student claims is a violation of his or her rights. The formal graduate assistant grievance does not pertain to cases in which there is a dispute between co-workers.

Violation of graduate assistant’s rights. An action is considered a violation of the graduate assistants’ rights if: a) it violates Graduate School policy with regard to graduate assistantships; b) it threatens the integrity of, or otherwise demeans the graduate student, regardless of any other consideration; c) it illegally discriminates or asks the graduate assistant to discriminate; d) it requires the student to do something which was not communicated as a condition of holding the assistantship (or the underlying expectations outlined above); e) it terminates the student from an assistantship for behaviors which are irrelevant to the holding of the assistantship or were never included as expectations for the assistantship; f) it requires the student to do something which violates University policy, the law, or professional ethics. Note: It is impossible to state all of the
conditions which might constitute a violation of graduate assistants’ rights or, conversely, which might defend a respondent against charges of such violations. Such complaints require a process of information gathering and discussion that leads to a final resolution of the matter by those who have been given the authority to do so.

**Formal grievance.** A grievance concerning graduate assistantships/fellowships is considered formal when the student notifies the Graduate Dean, in writing, that he/she is proceeding with such a grievance. The implications of this declaration are: a) the student will be provided with an advocate; b) all correspondence pertaining to any aspect of the grievance will be in writing and will be made available to the Graduate Dean; c) all documents relevant to the case, including minutes from all relevant meetings, will be part of the complete written record, and will be forwarded to the Graduate Dean upon receipt by any party to the grievance; d) the policy contained herein will be strictly followed; and e) any member of the academic community who does not follow the grievance policy will be subject to disciplinary actions. Filing a formal grievance is a serious matter, and the student is strongly encouraged to seek informal resolution of his/her concerns before taking such a step.

**Respondent.** The person who is the object of the grievance.

**Procedures**

NOTE: Grievances are confidential. Information about the grievance, including the fact that such a grievance has been filed, may never be made public to those who are not immediately involved in the resolution of the case, unless the student has authorized this release of information or has instigated a course of action which requires the respondent to respond. An exception to this confidentiality requirement is that the immediate supervisor or departmental chairperson of the respondent will be notified and will receive a copy of the resolution of the case. Since grievances against a respondent also have the potential to harm that person’s reputation, students may not disclose information about the grievance, including the fact that they have filed a grievance, to any person not immediately involved in the resolution of the case, until the matter has been finally resolved. This is not intended to preclude the student or respondent from seeking legal advice.

1. (Graduate assistants who are master’s students in the Graduate School of Business should contact the Director of that School.) When a graduate student believes that his/her rights have been violated, as the result of action(s) pertaining to a graduate assistantship he/she holds or has held within the past year, the student shall first discuss his/her concerns with the respondent. If the concerns are not resolved to the student’s satisfaction, the student may discuss it with the Graduate Dean and/or with the Office of Affirmative Action. If the concerns are satisfactorily resolved by any of the above discussions, the terms of the resolution shall be reduced to writing, if any of the involved parties desires to have such a written statement.

2. If the student’s concerns are not resolved by the above discussions and he/she chooses to pursue the matter further, the student shall notify the Graduate Dean in writing of the nature of the complaint. This notification will include all relevant documentation and must occur within one year from the date of the occurrence.

3. Upon receipt of this notification and supporting documentation, the Graduate Dean will meet with the graduate student. If the student agrees, the Dean will notify the respondent of the student’s concerns. If the student does not wish for the respondent to be notified, the matter will be dropped. The respondent will be given ten working days from receipt of the Graduate Dean’s notification to respond to the concerns.

4. The Graduate Dean will meet again with the student and make an effort to resolve the concerns in a mutually satisfactory manner. If this is not possible, the Graduate Dean will refer the case to a committee.

5. Within ten working days from the final meeting between the student and the Graduate Dean, the Graduate Dean will notify the respondent and the Academic Appeals Subcommittee of the Graduate Council, which will serve as the hearing committee. The Academic Dean of the Graduate School will serve as the chair of the grievance committee and will vote only in the case of a tie. A voting member of the Graduate Council who is not on the Academic Appeals Subcommittee will serve as the non-voting secretary of the committee. At this time, the Graduate Dean will also assign an advocate to the student. The advocate must be a member of the graduate faculty. The immediate supervisor of the sponsor will serve as his/her advocate. Note: The student and sponsor advocates will have the responsibility to help the student/sponsor prepare his/her written materials and will attend committee meetings with the student/sponsor. The advocate will not speak on behalf of the student/sponsor and will not take part in committee discussions of the merits of the case.

6. The committee shall have access to witnesses and records, may take testimony, and may make a record by taping the hearing. Its charge is to develop all pertinent factual information (with the exception that the student and respondent will not be required to be present in any meeting together without first agreeing to do so) and, on the basis of this information, to make a recommendation to the Graduate Dean to either support or reject the grievance. The Graduate Dean will then make a decision based on the committee’s recommendation and all documents submitted by the parties involved. The Graduate Dean’s decision, the committee’s written recommendation and a copy of all documents submitted as evidence by any party to the complaint, consistent with all privacy considerations, shall be forwarded to the person(s) alleging the grievance within 20 working days from the date the committee was first convened; copies shall be sent simultaneously to other parties involved in the grievance. A copy shall be retained by the Graduate School in such a way that the student’s and respondent’s privacy is protected. It should be noted that the Graduate Dean has limited authority to require a sponsor to reappoint a graduate assistant. Consequently, the redress open to the student may be limited.

7. If the grievance is not satisfactorily resolved through step 6, an appeal in writing with all relevant material may be submitted by either the student or the sponsor for consideration by the Provost/Vice Chancellor for Academic Affairs of the University of Arkansas. This appeal must be filed within 20 working days of receiving the decision of the Graduate Dean. Any appeal at this level shall be on the basis of the complete written record only and will not involve interviews with any party to the grievance. The Provost/Vice Chancellor for Academic Affairs shall make a decision on the matter within 20 working days from the date of receipt of the appeal. His/her decision shall be forwarded in writing to the Graduate Dean, the student, and the respondent. This decision is final.

8. If any party to the grievance violates this policy, he/she will be subject either to losing the assistantship position or losing the assistantship. When alleging such a violation, the aggrieved individual shall contact the Graduate Dean, in writing, with an explanation of the violation.
Research and Scholarly Misconduct Policies and Procedures

I. Introduction

A. General Policy

The University of Arkansas is committed to the highest integrity in research and scholarly activity. Actions which fail to meet this standard can undermine the quality of academic scholarship and harm the reputation of the University. This policy is designed to help ensure that all those associated with the University of Arkansas carry out their research and scholarly obligations in a manner that is consistent with the mission and values of the University, and provides a means of addressing instances of suspected research misconduct should they arise.

Principal investigators are responsible for maintaining ethical standards in the projects they direct and reporting any violations to the appropriate University official. Students charged with academic misconduct are subject to separate disciplinary rules governing students, however, such cases may also be reviewed under these policies if applicable under the provisions stated below. The Research Integrity Officer, in consultation with the student’s dean shall determine which policy is most appropriate in each case.

A charge of research misconduct is very serious, and will be reviewed carefully and thoroughly. Any allegation of research misconduct will be handled as confidentially and expeditiously as possible. Full attention will be given to the rights and responsibilities of all individuals involved. Charges of research misconduct which are determined not to be made in good faith, as provided for in this policy, may result in administrative action against the charging party.

B. Scope

This statement of policy and procedures is intended to carry out the responsibilities of the University of Arkansas, Fayetteville under the Public Health Service (PHS) Policies on Research Misconduct, 42 CFR Part 93 and the research misconduct policies of other funding agencies, as applicable to particular allegations.

This document applies to allegations of research misconduct (as defined below) involving:

- A person who, at the time of the alleged research misconduct, was employed by, was an agent of, or was affiliated by enrolled student status, contract or agreement with the University of Arkansas, Fayetteville; and
- Is accused of plagiarism, fabrication, or falsification of research records produced in the course of research, research training or activities related to that research or research training. This includes any research formally proposed, performed, reviewed, or reported, or any document or record generated in connection with such research, regardless of whether an application or proposal for funds resulted in a grant, contract, cooperative agreement, or other form of support.

Severance of the respondent’s relationship with the University, whether by resignation or termination of employment, completion of or withdrawal from studies, or otherwise, before or after initiation of procedures under this policy, will not preclude or terminate research misconduct procedures.

II. Definitions and Standard of Review

Charge. A written allegation of misconduct that triggers the procedures described in this policy.

Complainant. A person who submits a charge of research misconduct.

Deciding Official (DO). The Provost and Vice Chancellor for Academic Affairs who is the institutional official responsible for making determinations, subject to appeal, on allegations of research misconduct and any institutional administrative actions. The Deciding Official will not be the same individual as the Research Integrity Officer and should have no direct prior involvement in the institution’s allegation assessment, inquiry, or investigation. Discussing concerns regarding suspected research misconduct, as provided for in Section IV.A. of this policy, shall not be considered direct prior involvement. If the Deciding Official is unable to serve as DO in a particular matter, the Chancellor may appoint an appropriate official to act as the DO for purposes of that matter.

Good Faith Charge. A charge of research misconduct made by a complainant who believes that research misconduct may have occurred. A charge is not in good faith if it is made with reckless disregard for or willful ignorance of facts that would disprove the charge.

Inquiry. The process under the policy for information gathering and preliminary fact-finding to determine if a charge or apparent instance of research misconduct has substance and therefore warrants an investigation.

Investigation. The process under this policy for the formal examination and evaluation of all relevant facts to determine whether research misconduct has occurred, and, if so, the responsible person and the seriousness of the misconduct.

Investigator. Any person, including but not limited to any person holding an academic or professional staff appointment at the University of Arkansas, who is engaged in the design, conduct, or reporting of research.

ORI. The Office of Research Integrity within the U.S. Department of Health and Human Services.

PHS. The Public Health Service within the U.S. Department of Health and Human Services.

Preponderance of Evidence. Evidence which is of greater weight or more convincing than evidence to the contrary; evidence which shows that something more likely than not is true.

Recklessly. To act recklessly means that a person acts in such a manner that the individual consciously disregards a substantial and unjustifiable risk or grossly deviates from the standard of conduct that a reasonable individual would observe; reckless means more than mere or ordinary negligence.

Research. A systematic investigation designed to develop or contribute to generalizable knowledge. The term includes the search for both basic and applied knowledge and well as training methods by which such knowledge may be obtained.

Research Integrity Officer (RIO) means the Chair of the Research Council who is the institutional official responsible for: (1) assessing allegations of research misconduct to determine if the allegations fall within the definition of research misconduct, are covered by 42 CFR Part 93 or other applicable federal policies, and warrant an inquiry on the basis that the allegation is sufficiently credible and specific so that potential
evidence of research misconduct may be identified; (2) overseeing inquiries and investigations; and (3) the other responsibilities described in this policy. If the Research Integrity Officer is unable to serve as RIO in a particular matter, the DO may appoint an appropriate official to act as the RIO for purposes of that matter.

**Research Misconduct.** Research misconduct means the fabrication, falsification, or plagiarism in proposing, performing, or reviewing research, or in reporting research results.

1. Fabrication is making up data or results and recording or reporting them.
2. Falsification is manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented in the research record.
3. Plagiarism is the appropriation of another person’s ideas, processes, results, or words without giving appropriate credit.

Research misconduct does not include disputes regarding honest error or honest differences in interpretations or judgments of data, and is not intended to resolve bona fide scientific disagreement or debate. Research misconduct is also not intended to include “authorship” disputes such as complaints about appropriate ranking of co-authors in publications, presentations, or other work, unless the dispute constitutes plagiarism (as defined above).

**Research Record.** Any data, document, computer file, computer storage media, or any other written or non-written account or object that reasonably may be expected to provide evidence or information regarding the proposed, conducted, or reported research that constitutes the subject of a charge of research misconduct. A research record includes, but is not limited to, grant or contract applications, whether funded or unfunded; grant or contract progress and other reports; laboratory notebooks; notes; printed or electronic correspondence; memoranda of telephone calls; videos; photographs; X-ray film; slides; biological materials; computer files and printouts; manuscripts and publications; equipment use logs; laboratory procurement records; animal facility records; human and animal subject protocols; consent forms; medical charts; and patient research files.

**Respondent.** The person against whom a charge of research misconduct is directed, or the person whose actions are the subject of an inquiry or investigation.

**Standard of Review.**

A finding of research misconduct requires that:

1. There be a significant departure from accepted practices of the relevant research community; and
2. The research misconduct be committed intentionally, knowingly, or recklessly; and
3. The allegation be proven by a preponderance of the evidence.

This standard and related definitions are restated in the charge to the investigation committee located in section V.E. of this policy.

**III. Rights and Responsibilities**

**A. Research Integrity Officer**

The Chair of the Research Council will serve as the RIO who will have primary responsibility for implementation of the institution’s policies and procedures on research misconduct. These responsibilities include the following duties related to research misconduct proceedings:

- Consult confidentially with persons uncertain about whether to submit an allegation of research misconduct;
- Receive allegations of research misconduct;
- Assess each allegation of research misconduct in accordance with Section V.A. of this policy to determine whether the allegation falls within the definition of research misconduct and warrants an inquiry;
- As necessary, take interim action and notify ORI of special circumstances, in accordance with Section IV.H. of this policy;
- Sequester research data and evidence pertinent to the allegation of research misconduct in accordance with Section V.C. of this policy and maintain it securely in accordance with this policy and applicable law and regulation;
- Provide confidentiality to those involved in the research misconduct proceeding as required by 42 CFR § 93.108 or other applicable law or regulations, or institutional policy;
- Notify the respondent and provide opportunities for him/her to review/comment/respond to allegations, evidence, and committee reports in accordance with Section III.C. of this policy.
- Inform respondents, complainants, and witnesses of the procedural steps in the research misconduct proceeding;
- Appoint the chair and members of the inquiry and investigation committees, ensure that those committees are properly staffed and that there is expertise appropriate to carry out a thorough and authoritative evaluation of the evidence;
- Determine whether each person involved in handling an allegation of research misconduct has an unresolved personal, professional, or financial conflict of interest and take appropriate action, including recusal, to ensure that no person with such conflict is involved in the research misconduct proceeding;
- In cooperation with other institutional officials, take all reasonable and practical steps to protect or restore the positions and reputations of good faith complainants, witnesses, and committee members and counter potential or actual retaliation against them by respondents or other institutional members;
- Keep the Deciding Official and others who need to know apprised of the progress of the review of the allegation of research misconduct;
- Notify and make reports to ORI or other applicable federal agencies as required by 42 CFR Part 93 or other applicable law or regulations;
- Ensure that administrative actions taken by the institution, ORI, or other appropriate agencies are enforced and take appropriate action, including recusal, to ensure that no person with such conflict is involved in the research misconduct proceeding;
- Maintain records of the research misconduct proceeding and make them available to ORI or other appropriate agencies as applicable in accordance with Section VIII.F. of this policy.

**B. Complainant**

The complainant is responsible for making allegations in good faith, maintaining confidentiality to the extent permitted by law, and cooperating with the inquiry and investigation. As a matter of good practice, the complainant should be interviewed at the inquiry stage and given the transcript of the interview for comment. The complainant must be interviewed during an investigation, and be given the transcript of the interview for comment. The complainant may be provided for comment with (1) relevant portions of the inquiry report (within a timeframe that
permitted the inquiry to be completed within 60 days of its initiation); and (2) relevant portions of the draft investigation report. In reviewing reports, the complainant must adhere to time limits set by the corresponding committee for timely completion of the inquiry or investigation.

C. Respondent
The respondent is responsible for maintaining confidentiality and cooperating with the conduct of an inquiry and investigation. The respondent is entitled to:

- A good faith effort from the RIO to notify the respondent in writing at the time of or before beginning an inquiry;
- An opportunity to comment on the inquiry report and have his/her comments attached to the report;
- Be notified of the outcome of the inquiry, and receive a copy of the inquiry report that includes a copy of, or refers to 42 CFR Part 93 or other applicable law or regulations and the institution's policies and procedures on research misconduct;
- Be notified in writing of the allegations to be investigated within a reasonable time after the determination that an investigation is warranted, but before the investigation begins (within 30 days after the institution decides to begin an investigation), and be notified in writing of any new allegations, not addressed in the inquiry or in the initial notice of investigation, within a reasonable time after the determination to pursue those allegations;
- Be interviewed during the investigation, have the opportunity to correct the recording or transcript, and have the corrected recording or transcript included in the record of the investigation;
- Have a good faith effort made to interview during the investigation any witness who has been reasonably identified by the respondent as having information on relevant aspects of the investigation, have the recording or transcript provided to the witness, have the witness suggest any corrections in the transcript, and have the recording or corrected transcript included in the record of investigation; and
- Receive a copy of the draft investigation report and, concurrently, a copy of, or supervised access to any records or materials on which the report is based, and be notified that any comments must be submitted within 30 days of the date on which the copy was received and that the comments will be considered by the institution and addressed in the final report;
- Appeal the decision of the DO as provided in Section XIII.D.

The respondent should be given the opportunity to admit that research misconduct occurred and that he/she committed the research misconduct. With the advice of the RIO and/or other institutional officials, the Deciding Official may terminate the institution's review of an allegation that has been admitted, if the institution's acceptance of the admission and any proposed resolution is approved by ORI or the appropriate federal agency, if required.

D. Deciding Official
The DO will receive the inquiry report and after consulting with the RIO and/or other institutional officials, decide whether an investigation is warranted under this policy, the criteria in 42 CFR § 93.307(d), or other applicable law or regulations. Any finding that an investigation is warranted must be made in writing by the DO and must be provided to ORI or other federal agencies, if required, together with a copy of the inquiry report meeting the requirements of 42 CFR § 93.309, within 30 days of the finding. If it is found that an investigation is not warranted, the DO and the RIO will ensure that detailed documentation of the inquiry is retained for at least 7 years after termination of the inquiry, so that ORI or other applicable agencies may assess the reasons why the institution decided not to conduct an investigation.

The DO will receive the investigation report and, after consulting with the RIO and/or other institutional officials, decide the extent to which this institution accepts the findings of the investigation and, if research misconduct is found, decide what, if any, institutional administrative actions are appropriate. The DO shall ensure that the final investigation report, the findings of the DO and a description of any pending or completed administrative actions are provided to ORI, as required by 42 CFR § 93.315 or to other federal agencies as required by their respective misconduct policies.

IV. General Policies and Principles
A. Responsibility to Report Misconduct
All institutional members will report observed, suspected, or apparent research misconduct to the RIO, the DO, or their designees. Prior to submitting a formal charge, a potential complainant is encouraged to consult informally with the RIO, the DO, or their designees to consider whether the case involves questions of research misconduct, should be resolved by other University procedures, or does not warrant further action. Contact information for the RIO may be obtained from the Office of Research Support and Sponsored Programs or the listing of Research Council members on the Faculty Senate website. If the circumstances described by the individual do not meet the definition of research misconduct, but further action is required, the RIO will refer the individual or allegation to other offices or officials with responsibility for resolving the problem.

At any time, to the extent permitted by law, an institutional member may have confidential discussions and consultations about concerns of possible misconduct with the RIO, the DO, or their designees and will be counseled about appropriate procedures for reporting allegations and their obligation to cooperate in any inquiry or investigation that may occur.

B. Cooperation with Research Misconduct Proceedings
Institutional members shall cooperate with the RIO and other institutional officials in the review of allegations and the conduct of inquiries and investigations. Institutional members, including respondents, have an obligation to provide evidence relevant to research misconduct allegations to the RIO or other institutional officials.

C. Confidentiality
The RIO shall, as required by 42 CFR § 93.108 or other applicable law or regulation: (1) limit disclosure of the identity of respondents and complainants to those who need to know in order to carry out a thorough, competent, objective and fair research misconduct proceeding; and (2) except as otherwise prescribed by law, limit the disclosure of any records or evidence from which research subjects might be identified to those who need to know in order to carry out a research misconduct proceeding.

D. Conflicts of interest
At each stage of handling an inquiry or subsequent investigation, all persons involved shall be vigilant to prevent any real or perceived conflict of interest, or personal conflicts or relationships between colleagues, from affecting the outcome of the proceedings and resolution of the charges. Possible conflicts of interest may include co-authorship of work within the recent past with any of the individuals directly involved with the alleged misconduct, or professional or personal relationship with the respondent beyond that of mere acquaintances or colleagues. Committee members
shall not have had any personal, professional or financial involvement with the matters at issue in the investigation that might create an appearance of bias or actual bias. If such relationships or involvement are present, the individual shall recuse himself or herself from any investigative or decisional role in the case. If any prospective committee member at any point in the process presents a conflict of interest, that committee member shall be replaced by another appointee. If the RIO has a conflict of interest, the DO shall appoint a replacement; if the DO has a conflict of interest, the Chancellor shall appoint a replacement. The RIO may use a written conflict of interest statement to implement this provision; a sample statement is referenced in the Appendix to this policy.

E. Protecting complainants, witnesses, and committee members

Institutional members may not retaliate in any way against complainants, witnesses, or committee members. Institutional members should immediately report any alleged or apparent retaliation against complainants, witnesses or committee members to the RIO, who shall review the matter and, as necessary, make all reasonable and practical efforts to counter any potential or actual retaliation and protect and restore the position and reputation of the person against whom the retaliation is directed.

F. Protecting the Respondent

As requested and as appropriate, the RIO and other institutional officials shall make all reasonable and practical efforts to protect or restore the reputation of persons alleged to have engaged in research misconduct, but against whom no finding of research misconduct is made.

During the research misconduct proceeding, the RIO is responsible for ensuring that respondents receive all the notices and opportunities provided for in 42 CFR Part 93, or other applicable federal policies, and the policies and procedures of the institution.

G. Adviser to the Respondent

The respondent may consult with an adviser, who may or may not be an attorney. The adviser may not be a principal or witness in the case. The adviser may accompany the respondent to proceedings conducted as a part of the research misconduct proceeding, but shall not speak on behalf of the respondent or otherwise participate in the proceedings. The adviser must maintain confidentiality and be available as needed to ensure that all proceedings are completed on a timely basis.

H. Interim Administrative Actions and Notifying ORI or Other Federal Agencies of Special Circumstances

Throughout the research misconduct proceeding, the RIO will review the situation to determine if there is any threat of harm to public health, federal funds and equipment, or the integrity of the research process. In the event of such a threat, the RIO will, in consultation with other institutional officials and ORI or other federal agencies, if applicable, take appropriate interim action to protect against any such threat. Interim action might include additional monitoring of the research process and the handling of federal funds and equipment, reassignment of personnel or of the responsibility for the handling of federal funds and equipment, additional review of research data and results or delaying publication. The RIO shall, at any time during a research misconduct proceeding, consult with appropriate University officials and legal counsel immediately if he/she has reason to believe that any of the following conditions exist:

- Health or safety of the public is at risk, including an immediate need to protect human or animal subjects;
- Federal resources or interests are threatened;
- Research activities should be suspended;
- There is a reasonable indication of possible violations of civil or criminal law;
- Federal action is required to protect the interests of those involved in the research misconduct proceeding;
- The research misconduct proceeding may be made public prematurely and federal action may be necessary to safeguard evidence and protect the rights of those involved; or
- The research community or public should be informed.

Following such consultation, the institution shall take appropriate steps to address such conditions, such as by notifying ORI or other applicable agency.

I. Computation of Time

In this policy, any reference to days shall mean calendar days. Any period of time equal to ten days or fewer shall exclude University holidays. If a deadline falls on a weekend or University holiday, the deadline shall be the next University business day.

J. Procedural Changes

1. Deadlines. Due to the sensitive nature of allegations of misconduct, each case shall be resolved as expeditiously as possible. The nature of some cases may, however, render normal deadlines difficult to meet. If at any time an established deadline cannot be met, a report shall be filed with the DO setting out the reasons why the deadline cannot be met and estimating when that stage of the process will be completed. A copy of this report shall be provided to the respondent. If PHS funding is involved, an extension must be received from the Office of Research Integrity.

2. Other Procedural Changes. Particular circumstances in an individual case may dictate variation from the procedures set out in this policy in order to ensure fair and efficient consideration of the matter. Any change in the procedures must ensure fair treatment of the respondent. Any major deviations from the procedures described in this policy shall be made only with the written approval of the DO in consultation with the respondent. Any minor deviations from the procedures described in this policy shall not require the written approval of the DO.

K. Exclusive Process

The procedures described in this policy constitute the exclusive process for raising and resolving charges of research misconduct.

V. Conducting the Assessment and Inquiry

A. Assessment of Allegations

Upon receiving an allegation of research misconduct, the RIO will immediately assess the allegation to determine whether it is sufficiently credible and specific so that potential evidence of research misconduct may be identified and further review is warranted. The RIO shall also determine whether the alleged misconduct is within the jurisdictional criteria of 42 CFR § 93.102(b), and whether the allegation falls within the definition of research misconduct in 42 CFR § 93.103. An inquiry must be conducted if these criteria are met. In conducting this assessment, the RIO may consult with the institution’s legal counsel and other appropriate University officials. If a charge is frivolous, does not raise questions of research misconduct, is more appropriately resolved by other University
The assessment period should be brief, preferably concluded within a week. In conducting the assessment, the RIO need not interview the complainant, respondent, or other witnesses, or gather data beyond any that may have been submitted with the allegation, except as necessary to determine whether the allegation is sufficiently credible and specific so that potential evidence of research misconduct may be identified and further review is warranted. The RIO shall, on or before the date on which the respondent is notified of the allegation, obtain custody of, inventory, and sequester all research records and evidence needed to conduct the research misconduct proceeding, as provided in paragraph C. of this section.

B. Initiation and Purpose of the Inquiry
If the RIO determines that the criteria for an inquiry are met, he or she will immediately initiate the inquiry process. The purpose of the inquiry is to conduct an initial review of the available evidence to determine whether to conduct an investigation. An inquiry does not require a full review of all the evidence related to the allegation.

C. Notice to Respondent; Sequestration of Research Records
At the time of or before beginning an inquiry, the RIO must make a good faith effort to notify the respondent in writing, if the respondent is known. With the approval of the respondent, the RIO will also notify the dean of the school or college in which the respondent holds his or her primary appointment. If the inquiry subsequently identifies additional respondents, they must be notified in writing. On or before the date on which the respondent is notified, or the inquiry begins, whichever is earlier, the RIO must take all reasonable and practical steps to obtain custody of all the research records and evidence needed to conduct the research misconduct proceeding, inventory the records and evidence and sequester them in a secure manner, except that where the research records or evidence encompass scientific instruments shared by a number of users, custody may be limited to copies of the data or evidence on such instruments, so long as those copies are substantially equivalent to the evidentiary value of the instruments. The RIO may consult confidentially with the institution’s legal counsel and other appropriate University officials for advice and assistance in this regard. In addition, if necessary, the RIO may consult with ORI or other applicable federal agency.

D. Appointment of the Inquiry Committee
The RIO, in consultation with other institutional officials as appropriate, shall appoint an inquiry committee and committee chair as soon after the initiation of the inquiry as is practical. The inquiry committee must consist of individuals who do not have unresolved personal, professional, or financial conflicts of interest with those involved with the inquiry and should include individuals with the appropriate scientific expertise to evaluate the evidence and issues related to the allegation, interview the principals and key witnesses, and conduct the inquiry. The RIO shall notify the respondent of the proposed inquiry committee membership. The respondent may then submit a written objection to any appointed member of the inquiry committee based on bias or conflict of interest within seven days. If an objection is raised, the RIO shall determine whether to replace the challenged member with a qualified substitute. The RIO’s decision shall be final. The RIO may, with the concurrence of the DO, appoint one or more experts to assist the inquiry committee if necessary to evaluate specific allegations. The RIO shall direct the members of the committee that the investigation and all information relating to the investigation shall be kept confidential.

E. Charge to the Committee and First Meeting
The RIO will prepare a charge for the inquiry committee that:

- Sets forth the time for completion of the inquiry;
- Describes the allegations and any related issues identified during the allegation assessment;
- States that the purpose of the inquiry is to conduct an initial review of the evidence, including the testimony of the respondent, complainant and key witnesses, to determine whether an investigation is warranted, not to determine whether research misconduct definitely occurred or who was responsible;
- States that an investigation is warranted if the committee determines: (1) there is a reasonable basis for concluding that the allegation falls within the definition of research misconduct and is within the jurisdictional criteria of 42 CFR § 93.102(b), if applicable; and; (2) the allegation may have substance, based on the committee’s review during the inquiry.

At the committee’s first meeting, the RIO will review the charge with the committee, discuss the allegations, any related issues, and the appropriate procedures for conducting the inquiry, assist the committee with organizing plans for the inquiry, and answer any questions raised by the committee. The RIO will be present or available throughout the inquiry to advise the committee as needed. Prior to the first meeting, the RIO shall also consult with legal counsel for the institution as to the need for counsel to provide legal advice to the committee at the first meeting and in subsequent phases of the inquiry, including, but not limited to, for the purpose of reviewing institutional policies governing research misconduct proceedings, confidentiality and potential conflicts of interest.

F. Inquiry Process
The inquiry committee shall interview the complainant and the respondent, and may interview witnesses as well as examine relevant research records and materials. Then the inquiry committee will evaluate the evidence, including the testimony obtained during the inquiry. After consultation with the RIO, the committee members will decide whether an investigation is warranted based on the criteria in this policy and 42 CFR § 93.307(d) as applicable. The scope of the inquiry is not required to and does not normally include deciding whether misconduct definitely occurred, determining definitely who committed the research misconduct or conducting exhaustive interviews and analyses. However, if a legally sufficient admission of research misconduct is made by the respondent, misconduct may be determined at the inquiry stage if all relevant issues are resolved. In that case, the institution shall promptly consult with ORI or other appropriate agencies, as as required, to determine the next steps that should be taken. See Section IX.

G. Time for Completion
The inquiry, including preparation of the final inquiry report and the decision of the DO on whether an investigation is warranted, must be completed within 60 days of initiation of the inquiry, unless the RIO determines that circumstances clearly warrant a longer period. If the RIO approves an extension, the inquiry record must include documentation
of the reasons for exceeding the 60-day period. The respondent will be notified of the extension.

VI. The Inquiry Report
A. Elements of the Inquiry Report
A written inquiry report must be prepared that includes the following information: (1) the name and position of the respondent; (2) a description of the allegations of research misconduct; (3) the PHS or other federal support, if any, including, for example, grant numbers, grant applications, contracts and publications listing support; (4) the basis for recommending or not recommending that the allegations warrant an investigation; (5) any comments on the draft report by the respondent or complainant. An outline for reports to be furnished to ORI is referenced in the Appendix to this policy.

Institutional counsel shall review the draft inquiry report prior to transmission of the draft to the respondent. Modifications shall be made as appropriate in consultation with the RIO and the inquiry committee. The inquiry report shall include the following information: the names and titles of the committee members and experts who conducted the inquiry; a summary of the inquiry process used; a list of the research records reviewed; summaries of any interviews; and whether any other actions should be taken if an investigation is not recommended.

B. Notification to the Respondent and Opportunity to Comment
The RIO shall notify the respondent whether the inquiry found an investigation to be warranted, together with a copy of the draft inquiry report, and a copy of or reference to 42 CFR Part 93 or other applicable federal policies and the institution’s policies and procedures on research misconduct. The report shall clearly be labeled “DRAFT” in bold and conspicuous type font. The RIO shall notify the respondent that the respondent shall have 10 days to comment on the draft inquiry report. The RIO shall also direct the respondent that the draft report shall be kept confidential.

On a case-by-case basis, the RIO may provide the complainant a copy of the draft inquiry report, or relevant portions of it, for comment. If so, the report shall clearly be labeled “DRAFT” in bold and conspicuous type font, and the complainant will be allowed no more than 10 days to submit comments to the RIO. The complainant shall be directed that the draft report shall be kept confidential.

Any comments that are submitted by the respondent or the complainant shall be attached to the final inquiry report. Based on the comments, the inquiry committee may revise the draft report as appropriate and prepare it in final form. The committee will deliver the final report to the RIO. The RIO shall notify the complainant in writing whether the inquiry found an investigation to be warranted.

C. Institutional Decision and Notification
1. Decision by Deciding Official
   a. The RIO will transmit the final inquiry report and any comments to the DO, who will determine in writing whether an investigation is warranted. The inquiry is completed when the DO makes this determination.

2. Notification to ORI and Respondent
   a. Within 30 days of the DO’s decision that an investigation is warranted, the RIO will provide ORI, if required, with the DO’s written decision and a copy of the inquiry report. The RIO shall also provide a copy of the DO’s written decision and a copy of the inquiry report to the respondent within 30 days of the DO’s decision. Subject to confidentiality, the RIO will also notify those institutional officials, if any, who need to know of the DO’s decision because they will be directly involved in the investigation or otherwise have a need to know because of their official duties. The RIO must provide the following information to ORI, if required, or other applicable federal agency upon request: (1) the institutional policies and procedures under which the inquiry was conducted; (2) the research records and evidence reviewed, transcripts or recordings of any interviews, and copies of all relevant documents; and (3) the charges to be considered in the investigation.

3. Documentation of Decision Not to Investigate
   a. If the DO decides that an investigation is not warranted, the RIO shall secure and maintain for 7 years after the termination of the inquiry sufficiently detailed documentation of the inquiry to permit a later assessment by applicable federal agencies of the reasons why an investigation was not conducted. These documents must be provided to such agencies or their authorized personnel upon request.

VII. Conducting the Investigation
A. Initiation and Purpose
The investigation must begin within 30 days, after the determination by the DO that an investigation is warranted. The purpose of the investigation is to develop a factual record by exploring the allegations in detail and examining the evidence in depth, leading to recommended findings on whether research misconduct has been committed, by whom, and to what extent. The investigation will also determine whether there are additional instances of possible research misconduct that would justify broadening the scope beyond the initial allegations. This is particularly important where the alleged research misconduct involves clinical trials or potential harm to human subjects or the general public or if it affects research that forms the basis for public policy, clinical practice, or public health practice. The findings of the investigation must be set forth in an investigation report.

B. Notifying ORI and Respondent; Sequestration of Research Records
On or before the date on which the investigation begins, the RIO must:
(1) notify the ORI Director of the decision to begin the investigation and provide ORI a copy of the inquiry report, if required; and (2) notify the respondent in writing of the allegations to be investigated. The RIO must also give the respondent written notice of any new allegations of research misconduct within a reasonable amount of time of deciding to pursue allegations not addressed during the inquiry or in the initial notice of the investigation.

The RIO will, prior to notifying respondent of the allegations, take all reasonable and practical steps to obtain custody of and sequester in a secure manner all research records and evidence needed to conduct the research misconduct proceeding that were not previously sequestered during the inquiry. The need for additional sequestration of records for the investigation may occur for any number of reasons, including the institution’s decision to investigate additional allegations not considered during the inquiry stage or the identification of records during the inquiry process that had not been previously secured. The procedures to be followed for sequestration during the investigation are the same procedures that apply during the inquiry.
C. Appointment of the Investigation Committee

The RIO, in consultation with other institutional officials as appropriate, will appoint an investigation committee and the committee chair as soon after the beginning of the investigation as is practical. The investigation committee must consist of at least three individuals who do not have unresolved personal, professional, or financial conflicts of interest with those involved with the investigation and should include individuals with the appropriate scientific expertise to evaluate the evidence and issues related to the allegation, interview the respondent and complainant and conduct the investigation. Individuals appointed to the investigation committee may also have served on the inquiry committee. When necessary to secure the necessary expertise or to avoid conflicts of interest, the RIO may select committee members from outside the institution, or, with concurrence of the DO, may appoint experts to assist the committee in particular aspects of the case. The RIO will notify the respondent of the proposed investigation committee membership and any appointed experts. If the respondent then submits a written objection to any appointed member or expert based on bias or conflict of interest within seven days, the RIO will determine whether to replace the challenged member or expert with a qualified substitute, and the decision of the RIO shall be final.

D. Charge to the Committee and the First Meeting

1. Charge to the Committee

The RIO will define the subject matter of the investigation in a written charge to the committee that:

• Describes the allegations and related issues identified during the inquiry;
• Identifies the respondent;
• Informs the committee that it must conduct the investigation as prescribed in paragraph E. of this section;
• Reviews the definition of research misconduct as stated in this Policy;
• Informs the committee that it must evaluate the evidence and testimony to determine whether, based on a preponderance of the evidence, research misconduct occurred and, if so, the type and extent of it and who was responsible;
• Informs the committee that in order to determine that the respondent committed research misconduct it must find that a preponderance of the evidence establishes that: (1) research misconduct, as defined in this policy, occurred (respondent has the burden of proving by a preponderance of the evidence any affirmative defenses raised, including honest error or a difference of opinion); (2) the research misconduct is a significant departure from accepted practices of the relevant research community; and (3) the respondent committed the research misconduct intentionally, knowingly, or recklessly; and
• Informs the committee that it must prepare or direct the preparation of a written investigation report that meets the requirements of this Policy and any other applicable federal policies, such as 42 CFR § 93.313.

2. First Meeting

The RIO will convene the first meeting of the investigation committee to review the charge, the inquiry report, and the prescribed procedures and standards for the conduct of the investigation, including the necessity for developing a specific investigation plan. The RIO shall also direct the members of the committee that the investigation and all information relating to the investigation shall be kept confidential. The investigation committee will be provided with a copy of this statement of policy and procedures and any applicable federal research misconduct policies. The RIO will be present or available throughout the investigation to advise the committee as needed. Prior to the first meeting, the RIO shall also consult with legal counsel for the institution as to the need for counsel to provide legal advice to the committee at the first meeting and in subsequent phases in the investigation, including, but not limited to, for the purpose of reviewing institutional policies governing research misconduct proceedings, confidentiality and potential conflicts of interest.

E. Investigation Process

The investigation committee and the RIO must:

• Use diligent efforts to ensure that the investigation is thorough and sufficiently documented and includes examination of all research records and evidence relevant to reaching a decision on the merits of each allegation;
• Take reasonable steps to ensure an impartial and unbiased investigation to the maximum extent practical;
• Interview each respondent, complainant, and make a good-faith effort to interview any other available person who has been reasonably identified as having information regarding any relevant aspects of the investigation, including witnesses identified by the respondent, and record or transcribe each interview, provide the recording or transcript to the interviewee for correction, and include the recording or transcript in the record of the investigation; and
• Pursue diligently all significant issues and leads discovered that are determined relevant to the investigation, including any evidence of any additional instances of possible research misconduct, and continue the investigation to completion.

F. Time for Completion

The investigation is to be completed within 120 days of the first meeting of the investigation committee, including conducting the investigation, preparing the report of findings, providing the draft report for comment and sending the final report to ORI, if applicable. However, if the RIO determines that the investigation will not be completed within this 120-day period, he/she will submit a written request for an extension to the DO and ORI or other applicable federal agencies, setting forth the reasons for the delay. If the request for an extension is approved by the DO and applicable federal agencies, then the RIO will ensure that periodic progress reports are filed with the approving officials.

G. Amended Charges

If issues of research misconduct that fall outside of the charge arise during the course of the investigation, the committee shall so inform the RIO, including in its communication the evidence on which its concerns are based. The RIO in consultation with the DO and the investigation committee, will consider the issues raised and, in the RIO’s discretion, provide the investigation committee with an amended charge. The respondent shall be notified of any such amendments.

VIII. The Investigation Report

A. Elements of the Investigation Report

The investigation committee and the RIO are responsible for preparing a written draft report of the investigation that:

• Describes the nature of the allegation of research misconduct, including identification of the respondent and the respondent’s curriculum vitae;
• Describes and documents the federal support, if any, including, for example, the numbers of any grants that are involved, grant applications, contracts, and publications listing federal support;

• Describes the specific allegations of research misconduct considered in the investigation;

• Includes the institutional policies and procedures under which the investigation was conducted;

• Identifies and summarizes the research records and evidence reviewed and identifies any evidence taken into custody but not reviewed; and

• Includes a statement of findings for each allegation of research misconduct identified during the investigation. Each statement of findings must: (1) identify whether the research misconduct was falsification, fabrication, or plagiarism, and whether it was committed intentionally, knowingly, or recklessly; (2) summarize the facts and the analysis that support the conclusion and consider the merits of any reasonable explanation by the respondent, including any effort by respondent to establish by a preponderance of the evidence that he or she did not engage in research misconduct because of honest error or a difference of opinion; (3) identify the specific federal support, if any; (4) identify whether any publications need correction or retraction; (5) identify the person(s) responsible for the misconduct; and (6) list any current support or known applications or proposals for support that the respondent has pending with federal agencies.

• If the committee determines that any allegation of research misconduct is true, the report shall recommend appropriate institutional actions in response to the findings of research misconduct.

The report and other retained documentation must be sufficiently detailed as to permit a later assessment of the investigation. An outline for reports to be furnished to ORI is referenced in the Appendix to this Policy.

B. Comments on the Draft Report and Access to Evidence

The RIO must give the respondent a copy of the draft investigation report for comment and, concurrently, a copy of, or supervised access to the evidence on which the report is based. The report shall clearly be labeled “DRAFT” in bold and conspicuous type font. The respondent will be allowed 30 days from the date he/she received the draft report to submit comments to the RIO. The respondent’s comments must be considered and made a part of the final investigation record. The respondent shall be directed that the draft report shall be kept confidential.

On a case-by-case basis, the RIO may provide the complainant a copy of the draft investigation report, or relevant portions of it, for comment. If so, the report shall clearly be labeled “DRAFT” in bold and conspicuous type font, and the complainant will be allowed no more than 30 days from the date on which he/she received the draft report to submit comments to the RIO. The complainant’s comments must be included and considered in the final report. The complainant shall be directed that the draft report shall be kept confidential.

C. Decision by Deciding Official

The RIO will assist the investigation committee in finalizing the draft investigation report, including ensuring that the respondent’s and, if applicable, complainant’s comments are included and considered, and transmit the final investigation report to the DO, who will determine in writing: (1) whether the institution accepts the investigation report, its findings, and the recommended institutional actions; and (2) the appropriate institutional actions in response to the accepted findings of research misconduct. If this determination varies from the findings of the investigation committee, the DO will, as part of his/her written determination, explain in detail the basis for rendering a decision different from the findings of the investigation committee. Alternatively, the DO may return the report to the investigation committee with a request for further fact-finding or analysis. When a final decision on the case has been reached, whether at this stage of a subsequent appeal, the RIO will notify the respondent in writing. If the DO’s findings are not appealed within ten days, the DO’s findings shall become the institution’s final decision. At the time of a final decision, whether at this stage or after an appeal, the RIO will also notify the complainant in writing of the final outcome of the case. After informing ORI or other applicable federal agency, as required, the DO will determine whether law enforcement agencies, professional societies, professional licensing boards, editors of journals in which falsified reports may have been published, collaborators of the respondent in the work, or other relevant parties should be notified of the outcome of the case. The RIO is responsible for ensuring compliance with all notification requirements of funding or sponsoring agencies.

D. Appeals

The respondent, within ten days of receiving written notification of the decision of the DO, may file an appeal with the Chancellor. The appeal may result in (i) a reversal or modification of the DO’s findings of research misconduct or determinations of institutional action, (ii) the Chancellor may direct the DO to return the report to the investigation committee with a request for further fact-finding or analysis, or (iii) other action the Chancellor deems appropriate. The appeal process must be completed within 120 days of the filing of the appeal unless an extension is granted by appropriate officials and federal agencies. The decision of the Chancellor shall be final.

E. Notice to Federal Agencies of Institutional Findings and Actions

Unless an extension has been granted, the RIO must, within the 120-day period for completing the investigation or the 120-day period for completion of an appeal, submit the following to any applicable federal agencies as required: (1) a copy of the investigation report with all attachments and any appeals; (2) the findings of research misconduct, including who committed the misconduct; (3) a statement of whether the institution accepts the findings of the investigation; and (4) a description of any pending or completed administrative actions against the respondent.

F. Maintaining Records for Review by Federal Agencies

If required, the RIO must maintain and provide to ORI, if required, or other applicable federal agencies upon request “records of research misconduct proceedings” as that term is defined by 42 CFR § 93.317 or other applicable policies, as appropriate. Unless custody has been transferred to an appropriate federal agency or such agency has advised in writing that the records no longer need to be retained, records of research misconduct proceedings must be maintained in a secure manner for 7 years after completion of the proceeding or the completion of any federal proceeding involving the research misconduct allegation. The RIO is also responsible for providing any information, documentation, research records, evidence or clarification requested by ORI or other appropriate federal agency to carry out its review of an allegation of research misconduct or of the institution’s handling of such an allegation.
IX. Completion of Cases; Reporting
Premature Closures to Federal Agencies

Generally, all inquiries and investigations will be carried through to completion and all significant issues will be pursued diligently. A case may be closed at the inquiry stage if it is determined that an investigation is not warranted. A case may be closed at the investigation stage if there is a finding that no research misconduct was committed. If the alleged misconduct was in the jurisdiction of the ORI or other federal agency, then this finding must be reported to the applicable agency. An advance notification by the RIO to any applicable federal agency must be made if there are plans to close a case at the inquiry, investigation, or appeal stage on the basis that respondent has admitted guilt, a settlement with the respondent has been reached, or for any other reason except those noted above.

X. Institutional Administrative Actions

If the DO and any subsequent appeal determine that research misconduct is substantiated by the findings, then the DO will decide on the appropriate actions to be taken, after consultation with the RIO and the Chancellor. The administrative actions may include, but are not limited to, the following:

- Withdrawal or correction of all pending or published abstracts and papers emanating from the research where research misconduct was found;
- Removal of the responsible person from the particular project, letter of reprimand, special monitoring of future work, probation, suspension, salary reduction, or initiation of steps leading to possible rank reduction or termination of employment;
- Restitution of funds to the grantor agency as appropriate; and
- Other action appropriate to the research misconduct.

XI. Other Considerations

A. Termination or Resignation Prior to Completing Inquiry or Investigation

The termination of the respondent’s institutional employment, by resignation or otherwise, before or after an allegation of possible research misconduct has been reported, will not preclude or terminate the research misconduct proceeding or otherwise limit any of the institution’s responsibilities under 42 CFR Part 93 or the corresponding research misconduct policies of other federal agencies.

If the respondent, without admitting to the misconduct, elects to resign his or her position after the institution receives an allegation of research misconduct, the assessment of the allegation will proceed, as well as the inquiry and investigation, as appropriate based on the outcome of the preceding steps. If the respondent refuses to participate in the process after resignation, the RIO and any inquiry or investigation committee will use their best efforts to reach a conclusion concerning the allegations, noting in the report the respondent’s failure to cooperate and its effect on the evidence.

B. Restoration of the Respondent’s Reputation

Following a final finding of no research misconduct, including ORI concurrence where required by 42 CFR Part 93 or other federal agencies, if required, the RIO must, at the request of the respondent, undertake all reasonable and practical efforts to restore the respondent’s reputation. Depending on the particular circumstances and the views of the respondent, the RIO should consider notifying those individuals aware of or involved in the investigation of the final outcome, publicizing the final outcome in any forum in which the allegation of research misconduct was previously publicized, and expunging all reference to the research misconduct allegation from the respondent’s personnel file. Any institutional actions to restore the respondent’s reputation should first be approved by the DO.

C. Protection of the Complainant, Witnesses and Committee Members

During the research misconduct proceeding and upon its completion, regardless of whether the institution or ORI determines that research misconduct occurred, the RIO must undertake all reasonable and practical efforts to protect the position and reputation of, or to counter potential or actual retaliation against, any complainant who made allegations of research misconduct in good faith and of any witnesses and committee members who cooperate in good faith with the research misconduct proceeding. The DO will determine, after consulting with the RIO, and with the complainant, witnesses, or committee members, respectively, what steps, if any, are needed to restore their respective positions or reputations or to counter potential or actual retaliation against them. The RIO is responsible for implementing any steps the DO approves.

D. Allegations Not Made in Good Faith

If relevant, the DO will determine whether the complainant’s allegations of research misconduct were made in good faith, or whether a witness or committee member acted in good faith. If the DO determines that there was an absence of good faith he/she will determine whether any administrative action should be taken against the person who failed to act in good faith.

Appendix

A. Summary of Items that must be Reported or Submitted to the ORI in those Cases Covered by 42 CFR Part 93

(Not: This list is subject to modification based on adherence to current ORI regulations.)

- • An annual report containing the information specified by ORI on the institution’s compliance with the final rule. Section 93.302(b).
- • Within 30 days of finding that an investigation is warranted, the written finding of the responsible official and a copy of the inquiry report. Sections 93.304(d), 93.309(a), and 93.310(a) and (b).
- • Where the institution has found that an investigation is warranted, the institution must provide to ORI upon request: (1) the institutional policies and procedures under which the inquiry was conducted; (2) the research records and evidence reviewed, transcripts or recordings of any interviews, and copies of all relevant documents; and (3) the charges for the investigation to consider. Section 93.309.
- • Periodic progress reports, if ORI grants an extension of the time limits on investigations or appeals and directs that such reports be submitted. Sections 93.311(c) and 93.314(c).
- • Following completion of the investigation report or any appeal: (1) a copy of the investigation report with all attachments and any appeals; (2) the findings of research misconduct, including who committed the misconduct; (3) a statement of whether the institution accepts the findings of the investigation; and (4) a description of any pending or completed administrative actions against the respondent. Section 93.315.
• Upon request, custody or copies of records relevant to the research misconduct allegation, including research records and evidence. Section 93.317(c).
• Notify ORI immediately of the existence of any of the special circumstances specified in Section 93.318.
• Any information, documentation, research records, evidence or clarification requested by ORI to carry out its review of an allegation of research misconduct or the institution’s handling of such an allegation. Section 93.400(b).

**B. Outline for an Inquiry/Investigation Report for ORI**
(Note: A recommended outline for inquiry and investigation reports has been furnished by ORI and is available on the Research Support and Sponsored Programs web site. Committee members should consult this outline in preparing reports. The outline is subject to modification based on adherence to current ORI regulations.)

**C. Conflict of Interest Statement**
(Note: A sample conflict of interest statement is available on the Research Support and Sponsored Programs web site. This statement shall be provided to the RIO for use in implementing the conflict of interest portions of this policy.)
Degree Requirements

The faculty of the Graduate School, under the authorization of the Board of Trustees, grants the degrees listed below. In addition, the faculty of the Graduate School offers several non-degree graduate certificates. The graduate faculty, as represented by the Dean of the Graduate School and through the Graduate Council, has primary responsibility for the development, operating policies, administration, and quality of these programs. Operating through the Graduate Dean, the faculty appoints committees that directly supervise the student’s program of study and committees that monitor research activities and approve theses and dissertations.

Doctoral Degrees

The degree of Doctor of Philosophy (Ph.D.) is conferred for advanced graduate work in a variety of disciplines including animal science; anthropology; biology; business administration; cell and molecular biology; chemistry; community health promotion; comparative literature; computer science; counselor education; crop, soil and environmental science; curriculum and instruction; economics; engineering; educational statistics and research methods; English; entomology; environmental dynamics; food science; geosciences; history; kinesiology; mathematics; microelectronics-photronics; philosophy; physics; plant science; poultry science; psychology; public policy; rehabilitation; and space and planetary sciences. See the Ph.D. and Ed.D Degrees tab above for general requirements.

The degree of Doctor of Education (Ed.D.) is conferred for advanced professional proficiency in a selected field of education. See the Ph.D. and Ed.D Degrees tab above for general requirements.

The degree of Doctor of Nursing Practice (DNP) is conferred for advanced professional proficiency in the area of nursing.

Specialist Degree

The degree of Education Specialist (Ed.S.) is conferred for specialization in one of two areas: curriculum and instruction and educational leadership. See the Specialist Degrees tab above for general requirements.

Master’s Degrees

The degree of Master of Arts (M.A.) is conferred for graduate work of which the major portion has been done in the liberal arts. For general degree requirements, see the Master’s Degrees tab above.

The degree of Master of Science (M.S.) is conferred for graduate work of which the major portion has been done in agriculture, educational statistics and research methods, engineering, kinesiology, health science, counseling, rehabilitation, human environmental sciences, biological and physical sciences, statistics, operations management, and communication disorders. For general degree requirements, see the Master’s Degrees tab above.

The degree of Master of Accountancy (M.Acc.) is conferred upon a student who completes an approved program of graduate studies in accounting. See the general degree requirements for M.Acc. degree (p. 49).

The degree of Master of Arts in Teaching (M.A.T.) is conferred upon a student who majors in childhood education or secondary education. See the Master’s Degree tab above.

The degree of Master of Business Administration (M.B.A.) is conferred upon a student whose major work is in the field of business. See the general degree requirements for M.B.A. degree (p. 69).

The degree of Master of Education (M.Ed.) is conferred upon a student who majors in the field of education. For general degree requirements, see the Master’s Degrees tab above.

The degree of Master of Information Systems (M.I.S.) is conferred upon a student who completes an approved program in information systems. See the general degree requirements for M.I.S. degree (p. 126).

The degree of Master of Music (M.M.) is conferred upon a student who completes an approved program of graduate studies in music. See the general degree requirements for M.M. degree (p. 141).

The Master of Public Administration and Nonprofit Studies (M.P.A.) is conferred upon a student who completes an approved program of graduate studies in the field of public administration. See the general degree requirements for M.P.A. degree (p. 160).

The degree of Master of Fine Arts (M.F.A.) in art, creative writing, drama, or translation is conferred upon a student who completes an approved program of graduate studies in these areas. General policies and procedures for a Master of Fine Arts degree are the same as for the Master of Arts. See the individual M.F.A. programs in Art (p. 61), Creative Writing (p. 89) and Theatre (p. 177).

The Master of Science in Nursing (M.S.N.) is conferred upon a student who completes an approved program of graduate studies in this area. See the general degree requirements for M.S.N. degree (p. 145).

The degree of Master of Social Work (M.S.W.) is conferred upon a student who completes an approved program of graduate studies in this area. See the general degree requirements for M.S.W. degree (p. 167).

Graduate Certificates (Non-degree)

As defined by the Arkansas Department of Higher Education, graduate certificate programs consist of 12 to 18 hours of required course work in a focused area of study. The awarding of the certificate will be shown on the student’s transcript. Students must meet the admission requirements of the Graduate School and the certificate program. Students who enter a graduate certificate program may use up to six hours of course work taken previously at the University of Arkansas and may use up to six hours of course work taken at another accredited university to meet certificate requirements, with approval of the program faculty and the Graduate School. The Graduate School does not impose a limit on the number of hours that may be shared between graduate certificate programs, but a limit may be set by the program. Students who enter a graduate certificate program must complete all certificate requirements within six years of admission to the program. For students who have been admitted to both a degree program and a certificate program, courses taken to meet the requirements of one may also be used to meet the requirements of the other, at the discretion of the program and the student’s Advisory Committee. See the list of Graduate Certificates (p. 48) offered.

Master of Accountancy

See the Master of Accountancy program (p. 49).

Master of Arts and Master of Science

General minimum requirements of the Graduate School follow for the degrees of Master of Arts and Master of Science – including the several engineering degrees. Program requirements may be higher. Note:
For degree requirements in the Master of Arts in Economics, see the Graduate School of Business.

1. 24 graduate semester hours and a thesis, or 30 semester hours without a thesis. (The thesis may be a departmental requirement or may be required by the major adviser.)
2. At least 50 percent of the credits (whether coursework or research) must be at the 5000 level or above.
3. A comprehensive examination.
4. A cumulative grade-point average of 2.85. (Individual departments may have higher grade standards.)

Program of Study. At the time of admission to the Graduate School and acceptance in a program of study leading to a graduate degree, the student is assigned to a major adviser. The choice of a major adviser is largely determined by the student’s choice of a major subject.

The program of study may consist of courses chosen from one department or it may include such cognate courses from other departments as may in individual instances seem to offer greatest immediate and permanent value. As a general principle, two-thirds of the courses come from the degree program in which the student is seeking a graduate degree. The program of study must be approved by the student’s Advisory Committee or, depending on program requirements, the Thesis Committee. No more than six hours of special problems (individual study) courses may count toward a 30 hour master's degree.

A student who writes a master’s thesis must register for a minimum of six semester hours of master’s thesis. No more than six semester hours of master’s thesis enrollment may be given credit in the degree program.

Students wishing to take 3000-level undergraduate courses for graduate credit will find the necessary forms on the Graduate School website (http://www.uark.edu/grad). Courses numbered at the 3000 level may be taken by graduate students for graduate credit only when the courses are not in the student’s major area of study and when the courses have been approved by the Dean of the Graduate School for graduate credit. The instructor for the course must hold graduate faculty status and must certify that he/she will make appropriate adjustments in assignments and grading scales to raise the level of expectation for the student to the graduate level. No more than 20 percent of the graded course work in the degree program may be comprised of 3000-level courses carrying graduate credit. Undergraduate courses numbered below 3000 will not be allowed to carry graduate credit.

Students wishing to take 4000-level undergraduate courses for graduate credit will find the necessary forms on the Graduate School website (http://www.uark.edu/grad). The instructor for the course must hold graduate faculty status and must certify that he/she will make appropriate adjustments in assignments and grading scales to raise the level of expectation for the student to the graduate level. However, students should be aware that a minimum of 50% of the semester hours presented for the graduate degree must be at the 5000 level or above and in the student’s field of study. Individual degree programs may have more stringent requirements.

Under ordinary circumstances graduate registration is limited to 18 hours for any one semester including undergraduate courses and courses audited. Registration above 15 hours must be approved by the Graduate Dean.

All requirements for a master's degree must be satisfied within six consecutive calendar years from the first semester of enrollment in the program.

Transfer of Credit. The University of Arkansas will permit a student to transfer six hours of graduate credit for a 30-hour degree program (12 hours for a 60-hour degree program) from an accredited graduate school in the United States as part of the master's program, provided that the grades are "B" or better, the courses were taken within six years previous to the conferral of the current degree, and the subjects are acceptable to the program concerned. (The transfer of graduate credit from institutions outside the United States is at the discretion of the Graduate Dean.) This does not, however, reduce the minimum requirement of 24 weeks of residence for the master's degree as set by state law. Students contemplating transfer of credit should consult with the Graduate School Office in advance. Please see transfer of credit regulations, below.

Transfer of Credit Regulations Established by the Graduate School for the Various Master's Degrees:

Transfer of Credit is permissible for master's programs only. Transfer of credit is not acceptable for doctoral degrees. For doctoral candidates, at the discretion of the advisory committee, the program of study may be adjusted in lieu of work taken at other colleges or universities and recognized by the candidate's committee, but it will not appear on the University of Arkansas academic record.

Criteria for Acceptable Transfer Credit:

1. The course must have been regularly offered by a regionally accredited graduate school.
2. The course must have been a bona fide graduate level course, approved for graduate credit and taught by a member of the graduate faculty.
3. The student desiring to transfer graduate credit must have been enrolled as a graduate student in the graduate school at the institution offering the course.
4. The course must appear on an official transcript as graduate credit from the institution offering the course.
5. The course grade must be a "B" or "A." (The student’s grade-point average is NOT to include grades on transfer courses.)
6. The course must be recommended by the student’s major adviser and be applicable to the degree requirement at the University of Arkansas.
7. The course must not have been taken by correspondence or for extension credit.
8. The course must be acceptable to the department concerned and to the Graduate Dean.
9. The student must have satisfied the 24-week residence requirements. (The student must have satisfactorily completed a total of 24 hours of graded graduate course work taken in residence.)
10. The course must have been taken within the six-year time limit of the student’s program at the University of Arkansas.

Petition for the transfer of credit from foreign universities may be made to the Graduate Dean by the department/program.

Graduate credit cannot be transferred to satisfy any of the requirements for the M.B.A. degree unless the school at which the course was taken is accredited by A.A.C.S.B. This requirement is not specified by the Graduate School, but by the Graduate School of Business.
**Ex Officio Committee Members:** Student committees may contain ex officio members who have graduate faculty status on the University of Arkansas campus. However, when a person does not hold graduate faculty status on the University of Arkansas campus, he/she may still be allowed to hold an ex officio position on a student’s committee, in accordance with the following policy: When a committee member does not hold graduate faculty status at the University of Arkansas, he/she will be allowed to serve on a student’s master’s thesis or doctoral dissertation committee, in addition to the minimum number of members required by the Graduate School or the department/program. The ex officio member will be allowed to sign the thesis or dissertation and his/her vote will be recorded but will not be binding for conferring the degree. This use of the term ex officio will indicate that the person does not hold graduate faculty status at the University of Arkansas and is serving in an honorary role.

**Conflict of Interest Policies:** Students should be aware that the Graduate School has policies pertaining to the composition of advisory and thesis committees. These may be found in the Graduate Student Handbook on the Graduate School website. It should also be noted that to avoid the perception of a conflict of interest, students are discouraged from providing refreshments and faculty are discouraged from creating the expectations that students will provide refreshments during oral defenses.

**Residence Requirements.** The candidate must present a minimum of 24 course hours taken at the University of Arkansas, Fayetteville. Acceptance of transferred credit does not reduce the minimum residence requirement of 24 course hours taken at the University of Arkansas, Fayetteville.

**Thesis.** The title of the thesis must be recommended by the thesis director and the thesis committee and be approved by the Dean of the Graduate School at least three months before the date of the comprehensive examination. The thesis must be submitted for approval to the thesis committee consisting of a minimum of three faculty members who have been approved by the Dean of the Graduate School. This committee must receive the thesis in time for the student to defend the thesis and submit it to the Graduate School by the posted deadline date. In order for a thesis to be submitted to the Graduate School, a majority of the thesis committee members, including the thesis adviser (chair of the thesis committee), must have voted to approve the thesis submission and the final oral defense of the thesis. If a student feels that the major adviser (chair of the thesis committee) is preventing completion of the thesis unreasonably, the student may appeal to the Graduate Dean for resolution of the matter. For instructions on submitting an approved thesis, students should consult the Graduate School’s Guide to Preparing Theses and Dissertations. Students will be required to submit their theses to University Microfilms Incorporated (UMI/ProQuest). There may be an additional charge for this submission. The thesis must be in English.

**Comprehensive Examination/Thesis Defense.** In addition to completing other requirements, the candidate for a master’s degree must take a comprehensive examination, which may be oral and/or written as recommended by the major department. If the student has completed a thesis, the final defense of the thesis must be oral. This can substitute for the comprehensive examination, if the department so chooses. If the final defense of the thesis substitutes for the comprehensive examination, the examination may include other aspects of the candidate’s graduate work. All members of the thesis committee (and advisory committee, if the thesis defense substitutes for the comprehensive examination) must participate in the thesis defense unless the Dean of the Graduate School has approved an exception. If a committee member does not participate in the final oral defense, that person will be asked by the Graduate School to resign from the committee. While this final oral defense will not be posted on the website of the Graduate School and open to the general public, as is allowed with the doctoral dissertation defense, members of the student’s degree program and/or department, as well as other affiliated areas, may be invited to the defense by the thesis committee chair. The thesis committee chair may disallow inappropriate questions from the guests.

Students may elect to participate by distance through electronic means in their final oral defense of the thesis, if approved by the thesis faculty director. In advance of the final oral defense, the student must provide to the Graduate School a written, signed statement that he/she has elected this option.

**Grades.** All courses included in a student's program of study for a degree must have an acceptable grade (a letter grade of A, B, or C, or a mark of CR). A mark of "S" does not carry credit and any course with a mark of "S" cannot be included in the final program of study. If the course is to be included in a program of study, the mark of "S" must be changed to an acceptable grade or a mark of CR. Please note that all work for the course must have been submitted by the student to the instructor by the last day of final examinations in order to be eligible for graduation for that specific semester.

**Grade-Point Average.** To receive a master’s degree, a candidate must present a minimum cumulative grade-point average of 2.85 on all graduate courses required for the degree, unless the department requires a higher grade point average. Failing to earn such an average on the minimum number of hours, the student is permitted to present up to six additional hours of graduate credit to accumulate a grade-point average of 2.85. In the computation of grade point, all courses pursued by this institution for graduate credit (including any repeated courses) shall be considered. Students who repeat a course in an endeavor to raise their grade must count the repetition toward the maximum of six additional hours. Students should also be aware that they may not use for degree credit any course in which they received a grade of D or F. There is no grade forgiveness policy at the graduate level at the University of Arkansas. Individual departments may have higher grade standards.

**Split Decisions among Advisory and Thesis Committees.** When a split decision occurs among committee members of a master’s advisory or thesis committee, the majority decision will hold.

**Sharing Courses Between Two Degrees.** When a student earns two master’s degrees, no more than six hours of course work may be used to satisfy the requirements of both degrees, i.e. shared between the degrees. This rule pertains whether the course work is taken on the University of Arkansas campus or is transferred from another university.

**Master of Arts in Teaching**

The Master of Arts in Teaching (M.A.T.) degree is the initial certification program for students at the University of Arkansas and has two areas of emphasis: childhood education and secondary education. The M.A.T. is a 33 semester-hour degree offered to a cohort of students in consecutive summer, fall, and spring semesters with initial enrollment in the summer semester.

**Admission Requirements:** Students are selected up to the maximum number designated for each cohort area of emphasis. Admission requirements for the M.A.T. degree for initial certification are: completion of an appropriate undergraduate degree program; a minimum cumulative grade-point average of 3.0 in the last 60 hours completed for the baccalaureate degree; admission to the Graduate School; admission to a Teacher Education program; completion of the pre-education core with
a minimum of a “C” grade in all courses; completion of all prerequisite courses in the teaching field; successful completion of all required Praxis I and II exams; successful completion of the required criminal background check; and payment of an internship fee. (Note: Background check materials must be submitted by May 1st prior to the student teaching/ internship school year.)

Program Requirements: The M.A.T. degree requires the completion of 10 to 12 hours of core courses to be selected from the following: CIED 5012 Measurement, Research, and Statistical Concepts for Teachers (Su); CIED 5023 Classroom Management Concepts (Fa); CIED 5033 Curriculum Theory and Development for Educators (Su); CIED 5043 Content Area Reading in Elementary Grades (Su, Fa), and CIED 5052 Seminar: Multicultural Issues (Su). In addition, students must complete course work in their areas of emphasis, and a six hour internship is required. All M.A.T. students must successfully complete a comprehensive examination and one of the following: project, internship, directed research, and/or student portfolio. To receive the degree, a candidate must present a minimum cumulative grade-point average of 3.0 on all graduate courses required for the degree. Students may not present for degree credit any course in which they earned a grade of D or F.

For information on the areas of specialization, refer to the sections of this catalog on childhood education and secondary education in the Department of Curriculum and Instruction.

Admission to candidacy, residence requirements, and other requirements are the same as for the Master of Education degree.

Teacher Licensure and Licensure of Other School Personnel: The Arkansas State Board of Education issues the regulations governing the licensure of teachers in Arkansas. The Board specifies minimum cut-off scores for the Praxis I and Praxis II exams. Each application for a teacher’s license or a request to add an additional license or endorsement area requires completion of an approved program of study and documentation of passing the Praxis exams.

The Coordinator of Teacher Education will recommend students for initial teacher license who have submitted the licensing packet and successfully completed the appropriate approved program and all state licensure requirements. Those interested in seeking an additional license or endorsement should contact the Coordinator of Teacher Education at G-22 Stone House South. All requirements must be met to be cleared for the internship. The form is available from the COEHP college Web site (http://www.uark.edu/depts/coehp/certification.htm).

Students must meet the following criteria to be cleared for internship:

1. Successful completion of the PRAXIS I test by meeting or exceeding the Arkansas Department of Education cut-off scores. This test should be taken after the student has completed 30 credit hours and upon completion of ENGL 1013, ENGL 1023, and MATH 1203. Please note that several departments have additional program requirements regarding the Praxis I and II. Please consult with your adviser for additional requirements.

2. Obtain a “C” or better in the following pre-education core courses: CIED 1013, CIED 3023 (PHED 3903 for KINS K-12 majors) and CIED 3033. For Elementary Education a minimum of “C” or higher must be earned in ENGL 1013, ENGL 1023, ENGL 2003, COMM 1313, and MATH 1203 unless University of Arkansas exemption is earned in one or more of the courses.

3. Complete additional licensure requirements. COEHP majors take PBHL 1103 and PEAC 1621. PHED majors take PBHL 1103 and PHED 3043. ELED majors take HIST 3383. SEED Social Studies students take either HIST 4583 or HIST 3383 and any ECON course.

4. Secondary Education majors except for Art and Music majors, must complete the following courses with a grade of “C” or higher: CIED 3023 or CIED 4023 and CIED 4131, or present demonstration of computer competencies in a portfolio.

5. Obtain a “C” or better in the six hours of program-specific courses. (See your adviser for information.)

6. Schedule a visit with your adviser for additional requirements including admission to upper-division courses.

7. The student should consult with his/her adviser regarding PRAXIS II requirements.

8. Earn a cumulative GPA of 2.70 or higher in the undergraduate degree program (special conditional admission will be considered on a case-by-case basis for students with a GPA between 2.5 and 2.69). Some programs require a higher GPA. Consult your adviser for the GPA requirements for your program.

Stage III: Admission to M.A.T. Degree Program

Please consult with your faculty adviser for additional requirements set by your program. The following minimum criteria are necessary to be eligible for consideration for admission:

1. Meet all requirements in Stages I & II.

2. Complete an appropriate undergraduate degree program.

3. Earn a cumulative GPA of 2.70 or higher in all previous courses completed as part of a bachelor’s degree program. Some programs require a higher GPA. Consult your adviser for the GPA requirements for your program.

4. Obtain recommendation for admission from M.A.T. program area based on successful completion of portfolios, evaluation for internship, GPA requirements, course work requirements, selected written recommendations, an interview, and other requirements specified by your program.
5. Obtain admission to the Graduate School.

Enrollment in each cohort will be limited. Transfer students will be allowed to enter the program on a space-available basis and must progress through all three admission stages.

Stage IV: Graduation requirements for the Master of Arts in Teaching (M.A.T.)

1. Meet all requirements in Stages I — III.
2. Earn a minimum cumulative GPA of 3.00.
3. Complete a minimum of 33 graduate semester hours as specified by program area.
4. Satisfactorily complete an internship. The internship will be completed at a school/district in Benton or Washington counties that has been approved by the Northwest Arkansas Partnership Steering Committee.
5. Pass the appropriate Praxis test (see adviser for the appropriate test) by meeting or exceeding the Arkansas Department of Education cut-off scores. The test is required for most programs. Please consult with your adviser.
6. Successfully complete the comprehensive examination.
7. Consult with your adviser for other requirements.
8. Apply for degree at the Graduate School, 119 Gearhart Hall.

Licensure

Students who have completed Stages I — III must obtain a licensure packet from the Coordinator of Teacher Education, Peabody Hall room 117, prior to entering internship.

NOTE: Students should always consult the Coordinator of Teacher Education for licensure requirement changes. Students will not be licensed to teach in Arkansas until they have met all requirements for licensure as set forth by the Arkansas Department of Education.

NOTE: Students who have completed the B.M. or B.F.A. in music or art education and have completed the internship may obtain the licensure packet from the Coordinator of Teacher Education, Peabody Hall room 117.

Usually licensure in another state is facilitated by qualifying for a license in Arkansas. An application in another state must be made on the application form of that state, which can be obtained by request from the State Teacher Licensure office in the capital city. An official transcript should accompany the application. In many instances the applications are referred to the Coordinator of Teacher Education to verify program completion in teacher education.

Master of Athletic Training

See the Master of Athletic Training program (p. 62).

Master of Business Administration

See the Business Administration program (p. 69).

Master of Education

Programs of advanced study leading to the degree of Master of Education (M.Ed.) are offered in adult and lifelong learning, educational leadership, educational technology, elementary education, higher education, physical education, recreation and sport management, secondary education, special education, and human resource and workforce development education.

Program Requirements: General minimum requirements for the degree of Master of Education (M.Ed.) follow:

1. 27 semester hours and a thesis or 33 semester hours and no thesis.
2. A written comprehensive examination (portfolio in educational technology)
3. A cumulative grade-point average of 3.00.
4. A minimum of 24 graded UA course hours.

Admission Requirements: After a student has been admitted to the Graduate School, the student may seek acceptance into one of the M.Ed. programs. Upon acceptance to a program area, the student is assigned an adviser. Acceptance in a program should be accomplished before the completion of the first graduate course. Some programs require students to take the Graduate Record Examinations, the Miller Analogies Test, or the National Teachers Examination. All Master of Education degree programs include a minimum of 33 semester hours.

Admission to Candidacy. Admission to candidacy will be met when the following have been completed:

1. unconditionally admitted to graduate standing.
2. accepted to a program and assigned an adviser.
3. completion of 12 semester hours of graduate credit over and above any entrance deficiencies or conditions.

Transfer of Credit. Transfer of credit regulations established by the Graduate School for the Master of Arts and Master of Science degree apply to the Master of Education degree. See the Master of Arts/Master of Science section above for more information.

Residence Requirements. The candidate must present a minimum of 24 graded course hours taken in residence at the University of Arkansas, Fayetteville. Acceptance of transferred credit does not reduce the minimum residence requirement of 24 course hours taken on the University of Arkansas, Fayetteville, campus or through approved University of Arkansas, Fayetteville, distance courses.

All requirements for a master’s degree must be satisfied within six consecutive calendar years.

Other Requirements. Students who do not have a grade-point average of 3.00 upon completion of Master of Education program requirements may be allowed to submit up to six additional hours of graduate credit in residence on the Fayetteville campus or at approved Graduate Resident Centers to accumulate a 3.00 average. Students should also be aware that they may not use for degree credit any course in which they received a grade of D or F.

The policies and procedures approved for the Master of Arts and Master of Science degrees also apply to the Master of Education degree. In addition to completing other requirements, the candidate must pass a comprehensive examination administered by the respective program area (portfolio for educational technology).

Master of Fine Arts

See the Art (p. 61), Creative Writing (p. 89) and Drama (p. 177) programs.

Master of Information Systems

See the Information Systems program (p. 126).

University of Arkansas
Master of Music  
See the Music program (p. 141).

Master of Public Administration  
See the Public Administration program (p. 160).

Master of Science in Nursing  
See the Nursing program (p. 145).

Master of Social Work  
See the Master of Social Work page (p. 167).

Programs of advanced study leading to the degree of Educational Specialist (Ed.S.) are offered in curriculum and instruction and educational leadership, and may be issued by the Graduate School to those students whose major objective is to develop educational competency in one of these specialized areas. All graduate courses applicable to this degree must be taken on the Fayetteville campus unless otherwise specified.

Admission to the Program. Students who wish to become candidates for the degree of Educational Specialist are expected to first complete work equivalent to the requirements for the master’s degree as determined by program faculty and must apply to be admitted to the Graduate School and the specific program of study. A student cannot satisfy any part of the residence requirement for the educational specialist degree until after he/she has been officially admitted to the educational specialist program.

Program Requirements. All Ed.S. programs contain a minimum of 30 semester hours of graduate work beyond the master’s degree in a planned program. The program for each student must include the requirements specified in the particular program to which the student has been accepted; assessed deficiencies in the area of specialization; assessed courses to meet current professional requirements of the Master of Education degree; a minimum of nine semester hours of graduate work in a related field(s) other than the area of specialization; a graduate course in research, statistics, or data processing applicable for educational specialists; and an original project, research paper, or report for which variable credit up to six semester hours is required. A grade-point average of 3.25 is required for the Educational Specialist degree program on all work presented as part of the Ed.S. degree program.

After a student is accepted into an Ed.S. program, a committee with a minimum of three members will be appointed, and a program of study will be established outlining the minimum requirements. Only the adviser and one other member of the student’s committee may be from the area sponsoring the program. The committee’s responsibilities include the determination of deficiencies, the acceptability of previous graduate work, the approval of the candidate’s program of study, the approval of the original project or research paper, and the conduct of a final examination. This examination will be a comprehensive oral evaluation scheduled near the end of the candidate’s program and will include one or both of the following: 1) evaluation of the original project, research paper, or report, and 2) evaluation covering material related to the background and professional preparation of the candidate. A written examination may not be taken to substitute for the oral examination. A written account of the original project, research paper, or report will be filed with the program area sponsoring the candidate’s program of study.

Residence Requirements: The last 30 hours of the program must be completed within a period of six years from the first semester of admission to the program. A minimum of 30 hours of resident study at the University of Arkansas, Fayetteville, in an approved program is required. Credit earned in any University of Arkansas center, off-campus workshop or special course will not count as residence study in the Ed.S. program. The only exception is course work completed at the University of Arkansas at Pine Bluff Graduate Resident Center, the University of Arkansas Community College at Hope Graduate Resident Center and Phillips Community College of the University of Arkansas at Helena Graduate Resident Center by students pursuing the Ed.S. degree in education with a specialization in educational leadership.

Upon completion of all requirements, candidates are issued an Educational Specialist degree. Their names appear on the commencement program, but there is no distinctive academic regalia in connection with the Educational Specialist degree.

Programs of advanced study leading to the degree of Doctor of Philosophy (Ph.D.) are offered in: animal science, anthropology, biology, business administration, cell and molecular biology, chemistry, community health promotion, comparative literature and cultural studies, computer science, counselor education, crop, soil, and environmental sciences, curriculum & instruction, economics, engineering, education policy, educational statistics and research methods, English, entomology, environmental dynamics, food science, geosciences, history, kinesiology, mathematics, microelectronics-photronics, philosophy, physics, plant science, poultry science, psychology, public policy, rehabilitation, and space and planetary sciences. (Note: For the Ph.D. in Business Administration and Economics, see the Graduate School of Business.)

Programs of advanced study leading to the degree of Doctor of Education (Ed.D.) are offered in educational leadership, higher education, recreation and sport management, and human resource and workforce development education.

The degrees of Doctor of Philosophy and Doctor of Education are awarded in recognition of high scholarly attainment as evidenced by a period of successful advanced study with at least a 3.0 cumulative grade-point average (2.85 for those students admitted to the Graduate School prior to Fall 2001), the satisfactory completion of certain prescribed examinations, and the development of a dissertation covering some significant aspect of a major field of learning.

Students who wish to become candidates for the degree of Doctor of Philosophy or Doctor of Education are expected to complete work equivalent to the requirements for the master’s degree as determined by program faculty and must apply to be admitted to the Graduate School and the specific program of study.

The University of Arkansas does not recognize any official designation such as “ABD” or “Ph.D. candidate” or “Ph.D. (c),” and it is expected that if the student uses Ph.D. or Ed.D. after his/her name, it is only after the degree has been conferred. To do otherwise will be considered academic fraud.

Immediately after admission to the program, with the approval of the Dean of the Graduate School, a Doctoral Program Advisory Committee will be appointed from the graduate faculty to evaluate the student’s preparation and fitness for further graduate work. This committee will serve in an advisory capacity in working out and directing a suitable program of advanced study and investigation. The student’s major adviser shall serve as chair of the committee. Appointment of this committee does not constitute admission to candidacy for the degree of Doctor of Philosophy or Doctor of Education, a very important and significant step in the student’s graduate career, which must be taken after the student
has completed approximately two years of graduate work beyond the baccalaureate degree.

The degree must be completed within seven consecutive calendar years from the first semester of admission to the program.

Program of Study. The objectives of the program of study leading to the degree of Doctor of Philosophy or Doctor of Education shall be scholarly achievement of high order and the development of a fundamental understanding of the major field and its relation to supporting fields of knowledge. The nature of the program of study will vary somewhat, depending upon the major field of study and the objective of the prospective candidate. However, a minimum of 50% of the first 30 credit hours and at least 42 of the final credit hours presented for the doctoral degree must be at the 5000 level or above.

Ex Officio Committee Members: Student committees may contain ex officio members who have graduate faculty status on the University of Arkansas campus. However, when a person does not hold graduate faculty status on the University of Arkansas campus, he/she may still be allowed to hold an ex officio position on a student’s committee, in accordance with the following policy:

When a committee member does not hold graduate faculty status at the University of Arkansas, he/she will be allowed to serve on a student’s master’s thesis or doctoral dissertation committee, in addition to the minimum number of members required by the Graduate School or the department/program. The ex officio member will be allowed to sign the thesis or dissertation and his/her vote will be recorded but will not be binding for conferring the degree. This use of the term ex officio will indicate that the person does not hold graduate faculty status at the University of Arkansas and is serving in an honorary role.

Conflict of Interest Policies: Students should be aware that the Graduate School has policies pertaining to the composition of advisory and dissertation committees. These may be found in the Graduate Student Handbook on the Graduate School website. It should also be noted that to avoid the perception of a conflict of interest, students are discouraged from providing refreshments and faculty are discouraged from creating the expectation that students will provide refreshments during oral defenses.

Transfer of Credit. Transfer of credit is not acceptable for doctoral degrees. For doctoral candidates, at the discretion of the advisory committee, the program of study may be adjusted in lieu of work taken at other colleges or universities and recognized by the candidate’s committee, but it will not appear on the University of Arkansas academic record.

Grades. All courses included in a student’s program of study for a degree must have an acceptable grade (a letter grade of A, B, or C) or a mark of CR. A mark of “S” does not carry degree credit and any course with a mark of “S” cannot be included in the final program of study. If the course is to be included in a program of study, the mark of “S” must be changed to an acceptable grade or a mark of CR. Please note that all work for the course must have been submitted by the student to the instructor by the last day of final examinations in order to be eligible for graduation for that specific semester.

Grade-Point Average Requirement. A minimum cumulative graduate grade-point average of 3.0 is required to earn a Doctor of Philosophy or Doctor of Education degree. Note: For students admitted to the Graduate School prior to Fall 2001, the minimum cumulative graduate grade-point average required to earn a Doctor of Philosophy or Doctor of Education degree was 2.85. Students should also be aware that they may not present for degree credit any course in which they earned a grade of D or F.

Language Requirement. Foreign language requirements for the Doctor of Philosophy degree vary from department to department. For specific details see departmental statements. These requirements should be completed early in the doctoral program. The Doctor of Education degree does not have a foreign language requirement.

Examination for Candidacy. After completing approximately two years of graduate study, the prospective candidate must take candidacy examinations in specified fields of study in accordance with the requirements of the program/department in which the candidate is working. These examinations may be either written or written and oral, but the expectation is that their purpose is to determine if a student is prepared to move to the independent research stage of his/her degree.

Upon satisfactorily completing these examinations, the student may be admitted to candidacy and may proceed to work toward completion of the remaining requirements for the degree. The Graduate School should be notified within two weeks of the student being admitted to candidacy. Note: The Graduate School considers the Advisory Committee to be responsible for administering and evaluating the candidacy examinations, but degree programs may have different structures.

Registration. All doctoral students who have been admitted to candidacy must enroll in a minimum of one hour of graduate course work or dissertation credit every semester (fall, spring, summer) until they graduate. Under unusual circumstances, this enrollment requirement may be waived for post-candidacy doctoral students for up to two years, with an approved request for a leave of absence. See the Graduate School Registration and Leave of Absence Policy (http://catalogofstudies.uark.edu/3909.php).

Dissertation. Each candidate must complete a doctoral dissertation on some topic in the major field. The topic assignment shall be made and a title filed with the Dean of the Graduate School at least one year before the final examination, the specific problem and subject of the dissertation to be determined by the major adviser, the candidate, and the advisory committee. The completed dissertation must be a definite, scholarly contribution to the major field and must be in the English language. This contribution may be in the form of new knowledge of fundamental importance, or of modification, amplification, and interpretation of existing significant knowledge.

Each doctoral candidate must register for a minimum of 18 hours of doctoral dissertation. After the student has passed the candidacy examinations, the student must register for at least one hour of dissertation (or graded course work) each semester and one hour during the summer session until the work is completed, whether the student is in residence or away from the campus. Before the final degree is conferred, registration will be assessed for each semester in which a student fails to register without prior approval of the Dean of the Graduate School.

The dissertation must be submitted for approval to the dissertation committee consisting of a minimum of three faculty members who have been approved by the Dean of the Graduate School. This committee must receive the dissertation in time for the student to defend the dissertation and submit it to the Graduate School by the posted deadline date. For instructions on submitting an approved dissertation, students should consult the Graduate School’s Guide to Preparing Theses and Dissertations. Students will be required to submit their dissertations to University Microfilms Incorporated (UMI/ProQuest).
Final Examination. The candidate’s final examination for the degree of Doctor of Philosophy or Doctor of Education will be oral. At least two weeks in advance, the major adviser will forward to the Dean of the Graduate School notification about the date, time and place of the final oral examination. The examination will be primarily concerned with the field of the dissertation, but may also include other aspects of the candidate’s graduate work. The doctoral dissertation committee is responsible for insuring that the dissertation contributes new knowledge of fundamental importance or significantly modifies, amplifies, or interprets existing knowledge in a new and important manner. All members of the dissertation committee must participate in the final oral defense of the dissertation unless the Dean of the Graduate School has approved an exception. This participation may be by distance. If they do not participate in the final oral defense, in person or by distance, they will be asked by the Graduate School to resign from the committee. While this examination is open to the public, the exam is controlled by the student’s committee chair. Questions from the public are at the discretion of the committee chair. If the committee chair expects to allow questions from the public, the student must be so advised. The chair will insure that questions from the public are appropriate by disallowing those which are not.

Students may elect to participate by distance through electronic means in their final oral defense of the dissertation, if approved by the dissertation faculty director. In advance of the final oral defense, the student must provide to the Graduate School a written, signed statement that he/she has elected this option.

Split Decisions Within Advisory and Dissertation Committees. In the situation when there is a split decision among committee members of a doctoral program advisory or dissertation committee, the situation must be resolved to the satisfaction of each committee member. In the event that each committee member is not satisfied, the committee member may insist on the necessary steps to reach a resolution or elect to step down from the committee. In unusual circumstances, the Dean of the Graduate School may remove a faculty member from a student’s thesis/dissertation or advisory committee, or make an alternative arrangement (e.g., assign a representative from the Graduate faculty to serve on the committee).
Service Learning

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The Service Learning Initiative

The Service Learning Initiative is a joint initiative between the University of Arkansas Provost Office, the Honors College, and the Division of Student Affairs. Service learning builds critical thinking skills while engaging in academic courses that promote experiential, community-based activities. Formulated service learning courses must meet the committee-approved service learning definition and criteria, and be approved for designation by the Service Learning Committee.

Service Learning Definition

Service learning is a credit-bearing, faculty-directed, teaching-learning experience that is course specific. Service Learning strengthens academic content knowledge and sense of civic responsibility. Students build critical thinking skills as they engage in experiential, community-based activities that are aligned with and integral to academic course work. At the same time, the community (real people in real situations) benefits from assistance that would otherwise not be available.

Courses Page

Students can visit the Service Learning program course page (http://servicelearning.uark.edu/student-resources/courses.php) to find courses that have been designated with service-learning components. Faculty can find criteria (http://servicelearning.uark.edu) to develop courses that will be considered for designation as service learning courses.

Service Learning Steering Committee

- Greg Herman, Department of Architecture, Fay Jones School of Architecture and Design
- Casey Kayser, J. William Fulbright College of Arts and Sciences
- Fran Hagstrom, College of Education and Health Professions
- G. Scott Osborn, Department of Biological Engineering, College of Engineering
- Jeff Miller, Department of Agricultural Education, Communications and Technology, Dale Bumpers College of Agricultural, Food and Life Sciences
- Molly Jensen, Department of Marketing, Sam M. Walton College of Business
- DeDe Long, Office of Study Abroad

- Carol Gattis, Honors College
- Angela M. Doss, School of Law
- Lora Lennertz, University Libraries
Graduate Council

Kim Needy, Dean of the Graduate School and International Education; Professor, Industrial Engineering

Patricia R. Koski, Associate Dean of the Graduate School and International Education; Associate Professor, Sociology and Criminal Justice; Chair (Ex-officio)

Vikas Anand, Associate Professor, Management

Mindy S. Bradley, Associate Professor, Sociology and Criminal Justice

Kathleen Collins, Professor, Curriculum and Instruction

T. Paul Cronan, Professor, Information Systems

Andrew J. Dowdle, Professor, Political Science

Judy Ganson, Associate Librarian, University Libraries

Valerie H. Hunt, Associate Professor, Political Science and Public Policy

Terry Martin, Associate Dean of the College of Engineering; Professor, Electrical Engineering

Michael T. Miller, Associate Dean of the College of Education and Health Professions (Ex-officio); Professor, Human Resources

Anne O’Leary-Kelly, Associate Dean of the Walton College of Business (Ex-officio); Professor, Management

Lona J. Robertson, Associate Dean, Bumpers College of Agricultural, Food and Life Sciences, Professor, Human Environmental Sciences

Melissa Harwood-Rom, Senior Associate Dean of Students (Ex-officio)

Yvette Murphy-Erby, Associate Dean of the Fulbright College of Arts and Sciences (Ex-officio); Professor, Social Work

Thad Scott, Assistant Professor, Crop, Soil and Environmental Sciences

R. Panneer Selvam, Professor, Civil Engineering

Fred Spiegel, Professor, Biological Sciences

Jacquelyn D. Wiersma, Assistant Professor, Human Environmental Sciences

Two representatives from the Graduate Dean’s Student Advisory Board
Accreditations

The University of Arkansas, Fayetteville, is accredited by the Higher Learning Commission.

Some colleges and programs are also accredited by other agencies, associations, or professional organizations, including those listed below.

Dale Bumpers College of Agricultural, Food and Life Sciences
The Jean Tyson Child Development Study Center is accredited by the National Association for the Education of Young Children (NAEYC). Teacher education programs in agriculture and family and consumer sciences are coordinated with educational programs in the College of Education and Health Professions and are accredited by the National Council for Accreditation of Teacher Education (NCATE).

J. William Fulbright College of Arts and Sciences
The Master of Music (M.M.) degree program in the Department of Music is accredited by the National Association of Schools of Music. The Doctor of Philosophy (Ph.D.) degree program in clinical psychology is accredited by the American Psychological Association. The Master of Social Work (M.S.W.) degree program is accredited by the Council of Social Work Education.

Sam M. Walton College of Business
The Sam M. Walton College of Business offers degree programs for graduate students at both the master’s and doctoral levels and has been a member of and accredited by AACSB International, the Association to Advance Collegiate Schools of Business, since 1931. The accounting program was separately accredited in 1986 at both the bachelor’s and master’s levels. The master’s in business administration program was approved in 1963. Accreditation by AACSB and membership in that organization signifies the college’s commitment to AACSB goals of promoting and achieving the highest standards of business education.

College of Education and Health Professions
The teacher education programs in the College of Education and Health Professions are accredited by the National Council for Accreditation of Teacher Education. The M.A.T. program in childhood education is in compliance with the standards of the National Association for the Education of Young Children. The various M.A.T. licensure programs in secondary education are in compliance with the standards of the specialty organizations including National Council of Teachers of English, National Council of Teachers of Mathematics, National Science Teachers Association, and National Council for the Social Studies. The Master of Science degree program in speech pathology-audiology is accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association, but is currently on probationary status. See Communication Disorders program page (p. 81) for more information. The Master of Science degree in rehabilitation counseling is accredited by the Council on Rehabilitation Education.

College of Engineering
The College of Engineering offers the following graduate programs accredited by the Engineering Accreditation Commission of ABET (visit http://www.abet.org for more information): Master of Science in Environmental Engineering (M.S.En.E.), and Master of Science in Biomedical Engineering (M.S.B.M.E.)

School of Law
The degree programs in the School of Law on the Fayetteville campus are accredited by both the American Bar Association and the Association of American Law Schools.
Graduate Faculty

Faculty

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<td>M.A. (University of Texas, Austin), Instructor, English Language and Cultural Studies</td>
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<td>Yazywinski, Tom</td>
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<td>Yeager, Mickey</td>
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<td>Yeager, Timothy J.</td>
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Graduate faculty are listed in alphabetical order.
Appendix

The Academic Common Market

The Academic Common Market is an interstate agreement among Southern states for sharing uncommon academic programs. Participating states are able to make arrangements for their residents who qualify for admission to enroll as in-state students for fee purposes.

The Common Market concept recognizes that it is impractical for every state to attempt development of programs in every field of knowledge. Each Southern state has programs which are not offered in some of the other states and which can accommodate additional students. Through the sharing of such programs, the market assists in eliminating unnecessary duplication and in increasing access to programs which meet the educational needs of the citizens of the South.

To enroll as an Academic Common Market student, you must:

1. Be accepted for admission into a program to which your state has obtained access for its residents through the Academic Common Market. Applications for admission should be made directly to the institution offering the program.
2. Obtain certification of residency from the Common Market coordinator for certification information.

The opportunities presently available at the University of Arkansas, Fayetteville, at in-state rates to residents of Southern states through the Academic Common Market are listed in the column to the right.

Academic Common Market Programs at the University of Arkansas

<table>
<thead>
<tr>
<th>Program</th>
<th>Bachelor’s</th>
<th>Master’s</th>
<th>Ph.D</th>
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<td>Landscape Architecture</td>
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<td>Transportation</td>
<td>KY, TX</td>
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Student Residence Status for Tuition and Fee Purposes

Board Policy 520.8 (Revised January 18, 1985)

The full text of the University of Arkansas Board of Trustees policy statement 520.8, Student Resident Status for Tuition and Fee Purposes, is provided below followed by a statement on implementing the policy at the University of Arkansas, Fayetteville.

Determination of Residence Status

I. Purpose

The purpose of these regulations is to enable the administrative officers of the University of Arkansas to classify students for the purpose of paying student fees, as either “in-state” or “out-of-state,” so as to accord fairness and equity to the students of the University and to the public, which provides support for the educational services provided by the University.

II. Initial Classifications

1. A student shall be admitted to the University in an “in-state” or “out-of-state” status for university fee purposes, as established under these regulations.

   Except as otherwise provided under these regulations, a student classified as “in-state” for university fee purposes at the time of admission must have established a bona fide domicile in Arkansas and must have resided continuously in this state in that bona fide domiciliary status for at least six consecutive months prior to the beginning of the term or semester for which fees are paid.

2. A bona fide domicile is a home of apparent true, fixed, and permanent nature, a place of actual residing for all purposes of living that may be distinguished from a temporary sojourn in this state as a student. The person claiming domicile in Arkansas must provide evidence of permanent connection with the State of Arkansas and demonstrate the expectation of remaining in this state beyond graduation. For purposes of implementing these policies, the administration is directed to articulate standards which will be applied in making the determination of residence.

3. Except as otherwise provided under these regulations, the domicile of an adult (18 years of age or older) or emancipated minor student shall be determined on the basis of his or her own domicile.

4. Except as otherwise provided under these regulations, the domicile and residence of an unemancipated minor student (less than 18 years of age) or an unmarried dependent who has not attained the age of 23 is legally that of the parents or surviving parent; or such other person legally standing in the place of a parent to the student and with whom the student in fact makes his or her home and who has been making substantial contributions to the support of the student for at least six consecutive months prior to the term or semester for which the fees are paid.

5. A student who cannot satisfy the criteria for Arkansas domicile and residence will be classified as an “out-of-state” student and will pay fees and tuition accordingly. The student on a temporary visa will be classified as a foreign student and will pay non-resident tuition and fees. A student who has been granted a permanent visa and has been domiciled in Arkansas for six consecutive months following receipt of the permanent visa shall be classified as an Arkansas resident for fee purposes.

6. The responsibility for registering under a proper classification for student fee purposes is placed upon the student. It is the duty of each student at each time of registration to call any question about residency classification status to the attention of the campus.
classification review officer in a timely fashion in order that the
question may be settled (see IV Procedures).
7. The six-month period required in paragraph A of these regulations
may be waived for persons, their spouses, and their unmarried
children (who have not yet attained the age of 23) who move to
Arkansas with attendance at the University only a by-product of the
primary purpose of establishing domicile in this state.
8. An unmarried student who has not reached the age of 23 years
having one parent residing in Arkansas (for at least six consecutive
months immediately prior to the beginning of the term or semester in
which the fees are to be paid) may be considered an “in-state” student
for fee purposes, even if that student resided outside the state with
the other parent before coming to Arkansas to attend the University.
9. Marriage is recognized as emancipation for both females and males.
10. The spouse of a person continuously domiciled in Arkansas (for at
least six consecutive months immediately prior to the beginning of the
term or semester in which the fees are to be paid) upon request shall
be classified as “in-state” for fee purposes.

III. Reclassifications
1. The initial classification of a student will not prejudice a different
classification for following terms or semesters. However, a student’s
prior domicile is assumed to continue until he or she clearly
establishes a new domicile in Arkansas (see IV Procedures).
2. A student previously classified as “out-of-state” may be reclassified
as “in-state” for fee purposes if he or she has established a bona fide
domicile in Arkansas and has resided continuously in this state in
that bona fide domiciliary status for at least six consecutive months
prior to his or her reclassification by the University. In order for an
adult or an emancipated minor to establish a bona fide domicile in
Arkansas for fee purposes, he or she must have left the parental
home, must have established in this state a home of a permanent
character as manifested objectively by good faith acts, and must
have the expectation of remaining in this state beyond graduation.
The single fact of presence in Arkansas for at least six months of
attendance as a student enrolled in the University of Arkansas, or
any other educational institution, neither constitutes nor necessarily
precludes reclassification as one domiciled in Arkansas, but will be a
factor to be considered.

IV. Procedures
1. A student shall have the burden of establishing any claim that he or
she is entitled to be treated as “in-state” for fee purposes. Persuasive
evidence to that effect must be presented in writing and verified under
oath by the student. Mere claims of local domicile and duration of
stay are of little weight. A student who knowingly gives erroneous
information in an attempt to evade the payment of “out-of-state” fees
may be subject to dismissal from the University.
2. All disputed classifications for student fee purposes, whether at
initial enrollment or subsequent enrollments, and all disputed
reclassifications will be decided initially on each campus by a
classification review officer designated by each Chancellor.
3. The Chancellor of each campus will designate a campus classification
appeal officer to receive petitions from decisions made by the campus
classification review officer. Each campus classification appeal
officer may, in his or her discretion, make investigations, receive
evidence, and conduct informal hearings. After considering the case,
the campus classification appeal officer will render a decision and
notify the affected student of the decision in writing. Any decision
of the campus classification appeal officer may be appealed to the
Vice President for Academic Affairs of the University of Arkansas
System, who shall recommend final disposition to the President of the
University.
4. Written notice of the appeals procedure will be provided to each
student raising a question about his or her status with the campus
residency classification review officer.
5. Determination of domicile will be based on a review of all pertinent
facts, evidence, and circumstances which collectively show, in an
objective and clear manner, the actual domicile of the student.

Note: In implementing these policies, it is presumed that dependent
students who are classified as non-residents based upon parental/
guardian domicile outside of Arkansas do not acquire Arkansas residency
under Board of Trustees Policy 520.8 unless and until their parent(s)/
guardian(s) have established a domicile in Arkansas, or the student has
left the parental home and established a domicile in Arkansas evidenced
by proof that he or she has established a home of a permanent character
as manifested objectively by good faith acts, resided in Arkansas in bona
fide domiciliary status for at least six consecutive months prior to his
or her reclassification as an Arkansas resident, and demonstrates the
expectation of remaining in this state beyond graduation.

Reclassification Deadlines
Students who have established a bona fide domicile in Arkansas following
initial classification as a non-resident must request reclassification if
they want their status recognized for fee purposes. Applications and
appropriate documentation must be received by the Office of the Registrar
no later than the fifth class day (second class day of a summer session)
of the term for which in-state fee assessment is requested. Applications
received after the deadline will be considered for the next term. All fees
are to be paid by published due dates. Students who receive a favorable
decision after payment will be provided a refund of out-of-state fees paid.
Please direct questions about residence classification review procedures
to the Registrar, 146 Silas H. Hunt Hall.

Residence Status of Native Americans
Board Policy 520.1 (Revised January 29, 1989)
Native American people in other states belonging to tribes that formerly
lived in Arkansas before relocation, and whose names are on the rolls in
tribal headquarters, shall be classified as in-state students of Arkansas for
tuition and fee purposes on all campuses of the University of Arkansas.
Tribes so identified include the Caddo, Cherokee, Chickasaw, Choctaw,
Creek, Delaware, Kickapoo, Osage, Peoria, Quapaw, Shawnee, and
Tunica.

Residence Status of Members of the
Armed Forces and Their Dependents
Board Policy 520.7 (Revised January 18, 1985)
Effective January 1, 1975, members of the Armed Forces who are
stationed in the state of Arkansas pursuant to military orders, and their
unemancipated dependents, shall be entitled to classification as in-state
Persons continuously domiciled in Arkansas for at least twelve
consecutive months, who enter active military service from this state and
who maintain Arkansas as the permanent home of record while on active
military duty, and their dependents, shall be entitled to classification as
in-state students for fee-paying purposes. This provision is forfeited if the
military person does not return to Arkansas within twelve months after separation, discharge, or retirement from active duty.

Persons serving in active military service who demonstrate a change of bona fide domicile from another state to Arkansas at least twelve consecutive months prior to separation, discharge, or retirement from active military duty, and their dependents, shall be entitled to classification as in-state students for fee-paying purposes. This provision is forfeited if the military person does not return to Arkansas within twelve months after separation, discharge, or retirement from active duty.

Residence Status of Students from Texarkana, Texas, and Bowie County, Texas

Board Policy 520.10 (Adopted November 16, 1984)

In accordance with the reciprocity agreement described in H.C.R. 32, signed by the Governor of Arkansas on February 12, 1965, residents of Texarkana, Texas, and Bowie County, Texas, will be classified as in-state students for university fee purposes at the University of Arkansas.
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