

# Enterprise Systems (ENTS)

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The Graduate Certificate in Enterprise Systems is a part-time program offered on campus, blended, and online. It is designed to provide graduate students with knowledge and experience in 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 four tracks for the Graduate Certificate in Enterprise Systems: Blockchain Enterprise Systems, Business Analytics, Cybersecurity and Data, 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 part-time Master of Information Systems program (Professional M.I.S.) 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 tracks below. Students are required to take 9 hours of coursework in the Walton College of Business and 3 hours of electives related to Enterprise Systems 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

Choose at least one of the following depending on the track chosen:

ISYS 50103	Data and Cybersecurity
ISYS 51703	Blockchain Fundamentals
ISYS 51003	Data Analytics Fundamentals
ISYS 52103	ERP Fundamentals

## Blockchain Enterprise Systems Track

This track is open to individuals with backgrounds in fields other than Information Systems and is designed to provide non-IS graduate students with the fundamental knowledge and skills needed to successfully transition to a career in the Information Systems field. Students who complete this track will have exposure to fundamental principles of blockchain, enterprise information systems, and techniques for management and development of blockchain projects.

### Required Courses (9 hours)

ISYS 51703	Blockchain Fundamentals	3
ISYS 51303	Blockchain and E Business Development	3
ISYS 54503	Blockchain and Enterprise Data	3

Students should choose 3 hours of coursework from among the following:

ISYS 51003	Data Analytics Fundamentals (recommended)
ISYS 52103	ERP Fundamentals
ISYS 58303	Data Management Systems

**Total Hours** 12

## Cybersecurity and Data Track

This track is open to individuals with backgrounds in any discipline and is designed to provide business and non-business graduate students a foundation to help organizations assess and detect threats while securing and protecting data and data-driven systems against a myriad of threats such as malicious software, hacking, insider threats, and other cybercrimes.

Required Courses:

ISYS 50103	Data and Cybersecurity	3
ISYS 50203	Data and System Security	3
ISYS 50403	Cybersecurity, Crime, and Data Privacy Law I	3

Students should choose 3 hours of coursework from among the following:

ISYS 50303	Advanced Data and Cybersecurity Management
ISYS 50503	Cybersecurity, Crime and Privacy Law II
ISYS 5110V	IT Toolkit & Skills Seminar
ISYS 51003	Data Analytics Fundamentals
ISYS 51703	Blockchain Fundamentals
ISYS 52103	ERP Fundamentals

**Total Hours** 12

## Business Analytics Track

This track 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 track 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 track may be eligible to receive a certificate endorsed by the SAS Institute.

### Required Courses (9 hours)

ISYS 51003	Data Analytics Fundamentals	3
ISYS 55003	Decision Support and Analytics	3
ISYS 58303	Data Management Systems	3

Students should choose 3 hours of coursework from among the following:

ISYS 5110V	IT Toolkit & Skills Seminar (this course may not be used for the Master of Information Systems degree)
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ISYS 51303	Blockchain and E Business Development	
ISYS 52103	ERP Fundamentals	
ISYS 54203	Seminar in Systems Development	
ISYS 58403	Seminar in Business Intelligence and Knowledge Management	
<b>Total Hours</b>		<b>12</b>

## Enterprise Resource Planning Track

This track 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 track will have exposure to fundamental principles of ERP and techniques for configuration, implementation, and development of ERP systems. Students completing this track may be eligible to receive a certificate endorsed by SAP America and the SAP University Alliances Program.

### Required Courses (9 hours)

ISYS 52103	ERP Fundamentals	3
ISYS 52203	ERP Configuration and Implementation	3
ISYS 52303	Seminar in ERP Development	3
Students should choose 3 hours of coursework from among the following:		3
ISYS 5110V	IT Toolkit & Skills Seminar (recommended)	
ISYS 51003	Data Analytics Fundamentals	
ISYS 51703	Blockchain Fundamentals	
ISYS 54503	Blockchain and Enterprise Data	
ISYS 58303	Data Management Systems	
<b>Total Hours</b>		<b>12</b>