

Engineering, College of (ENGR)

Kevin Hall
Associate Dean
479-575-8695
Email: kdhall@uark.edu

College of Engineering Website (<https://engineering.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 Doctor 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.

Master of Science in Engineering

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 sessions 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 discipline-specific engineering degrees.

Admission Requirements for the Master of Science in Engineering Degree:

In addition to the requirements of the Graduate School, a Bachelor of Science degree from any engineering program accredited by the Engineering Accreditation Commission or Computing Accreditation Commission of ABET, www.abet.org (<http://www.abet.org>), is required for entry into the program. Graduates from programs accredited in accordance with the Washington or Seoul Accords may be considered for admission.

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 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, and

- d. A maximum of four Operations Management (OMGT) courses; EMGT 5033 Introduction to Engineering Management is included in the count of four.
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 (<http://catalog.uark.edu/graduatecatalog/degree requirements/#mastersdegreestext>).

Courses

GNEG 5103. Globalization and Innovation. 3 Hours.

Integration of engineering in the globalized business environment. Innovation and integration models. Global survival skills. International organizational value-chain. Conducting business with emerging nations. Case studies; field trips; guest lectures. Experiential learning design component. Taken by students participating in departmental approved study abroad programs. (Typically offered: Irregular)

GNEG 550V. Master's Research Project. 1-3 Hour.

Required course for MSE students who wish to complete a Master's research project as part of their degree program. Prerequisite: Instructor permission. (Typically offered: Irregular)

GNEG 5801. Parallel Cooperative Education. 1 Hour.

Part time supervised experience in industry where students apply focused, discipline specific, classroom and research skills to problems directly related to their area of study in a professional work place setting. May be repeated for up to 3 hours of non-degree credit. Prerequisite: Instructor permission. (Typically offered: Fall, Spring and Summer)

GNEG 5811. Alternating Cooperative Education. 1 Hour.

Full time supervised experience in industry where students apply focused, discipline specific, classroom and research skills to problems directly related to their area of study in a professional work place setting. May be repeated for up to 3 hours of non-degree credit. Prerequisite: Instructor permission. (Typically offered: Fall, Spring and Summer)

GNEG 590V. Special Topics. 1-4 Hour.

Consideration of current engineering topics not covered in other courses. Prerequisite: Instructor's consent. (Typically offered: Irregular) May be repeated for up to 16 hours of degree credit.