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, Mechanical, and Transportation Engineering as well as a Master of Science in Operations Management. 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 or for those students who wish to pursue a curriculum emphasizing engineering management.

Graduate courses in engineering are offered by the faculty of the College of Engineering at the University of Arkansas, Fayetteville, that will satisfy both the academic requirements and the 30-week residence requirement for the Master of Science in Engineering degree.

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. Other students are required to have credit for the basic mathematics (through differential equations), chemistry, and physics courses required for undergraduate degrees in engineering.

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. 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.
3. 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.

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