

Mission of the Electrical Engineering Department

The University of Arkansas is the state land grant university and is a nationally competitive, student-centered, research university serving Arkansas and the world. As such, our mission encompasses education, research, and service.

The educational mission of the department is conducted through both the undergraduate and graduate programs. The educational objectives for the undergraduate program, which leads to a Bachelor of Science degree in Electrical Engineering, are to produce graduates who:

1. Are recruited in a competitive market and valued as reliable and competent employees by a wide variety of industries, in particular electrical engineering industries,
2. Succeed in graduate studies, such as, engineering, science, law, medicine, business, and other professions, if pursued,
3. Understand the need for life-long learning and continued professional development for a successful and rewarding career, and
4. Accept responsibility for leadership roles, in their profession, in their communities, and in the global society.

The graduate program offers a Master of Science degree in Electrical Engineering (M.S.E.E.), a Master of Science Degree in Engineering (M.S.E.), and a Doctor of Philosophy degree in Engineering. Having received additional instruction and hands-on experience beyond the undergraduate level, an additional educational objective for the graduate program is to produce graduates that are prepared to promptly address critical issues and assume advanced positions in the profession, such as management, design, and development.

In summary, the Electrical Engineering program is designed to offer a high-quality course of instruction involving classroom, laboratory, and extracurricular activities that results in graduates qualified and prepared to meet the demands of a professional career in the present and future work place and able to assume a responsible place of leadership in a complex technological society.

The department also participates in the Honors Program to challenge gifted students with a more in-depth academic program and research experience and to provide a structure for working more closely with faculty members and other students in a team environment.

The research mission of the department is conducted mainly through the graduate program. Internal and external funded research projects serve to:

1. Discover new knowledge, address technical problems, and develop new electrical/electronic technologies;
2. Provide the tools and resources which keep our faculty at the cutting edge of electrical engineering;
3. Provide financial support for graduate students and gifted undergraduate students; and
4. Improve the quality of life for the citizens of Arkansas and the world.

The graduate program also supports the undergraduate program by giving qualified undergraduate students access to research laboratories with state-of-the-art equipment

and software. Topics covered in graduate courses migrate into senior undergraduate elective courses and eventually into required undergraduate courses.

Faculty, students, administrators, and staff conduct the service mission of the department. The electrical engineering program, including faculty, students, staff, and facilities, is a major resource of the state, region, and nation. Faculty members are encouraged to provide services to both the community and the profession. Our faculty members are active in local, state, national, and international professional and service organizations, as well as public and private schools involving grades K-12.