

Proposed Graduate Learning Goals for College of Engineering

MS Degrees

College of Engineering Master of Science graduate students are expected to achieve the following learning goals by the end of their degree work:

- demonstrate a strong understanding of mathematical, scientific, and engineering principles in the field
- demonstrate an ability to formulate, analyze, and solve advanced engineering problems
- demonstrate creative, independent problem solving skills
- apply the latest scientific and technological advancements, advanced techniques, and modern engineering tools to these problems
- recognize and apply principles of ethical and professional conduct

MEng Degrees

College of Engineering Master of Engineering graduate students are expected to achieve the following learning goals by the end of their degree work:

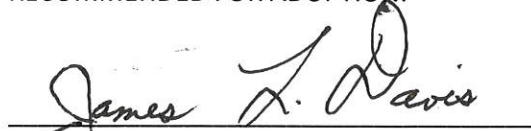
- acquire a strong background in engineering principles and a thorough knowledge of the latest technologies in the field which extends beyond the undergraduate experience.
- acquire practical engineering experience that will be immediately applicable in the workplace
- demonstrate an ability to formulate, analyze, and solve advanced engineering problems
- demonstrate creative, independent problem solving skills
- apply the latest scientific and technological advancements, advanced techniques, and modern engineering tools to these problems
- acquire knowledge and practice of career-enhancing competencies that enhance professional opportunities and personal success
- recognize and apply principles of ethical and professional conduct

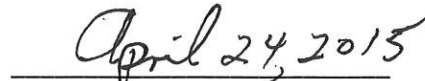
PhD Degrees

Beyond the MS or MEng, our graduates will


- acquire an exceptional, deep background in their discipline
- demonstrate an ability to synthesize knowledge from a subset of the biological, physical, and social sciences to help frame problems critical to the future of their discipline
- conduct original research
- demonstrate an ability to create new knowledge and communicate it to their peers

RECOMMENDED FOR ADOPTION:



Chair, Academic Planning Council



Date


Chair, Leadership Council


Date

ADOPTED:


Dean, College of Engineering


Date