

# COLLEGE OF ENGINEERING (GRADUATE)

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### Graduate Programs

The Master of Science in Engineering is a set of professional masters programs that build on an undergraduate engineering program by offering additional depth and greater mastery in a number of technical areas.

- The MSE in Mobility Systems (formerly Automotive Systems) is intended for individuals who desire a deeper understanding and knowledge of mechanical, electrical, computer, industrial, and manufacturing systems used in mobility. Courses cover subjects such as conventional and electric propulsion systems; safety systems, including connected and autonomous systems; and modern manufacturing systems. Students select courses from a structured framework in order to customize a program that best meets their individual and career needs.
- The MSE in Computer Engineering is a research-intensive on-campus program designed to deepen students' understanding of computer engineering and to develop their skills in independent research. Courses within the computer engineering program include digital systems design, real-time embedded systems, mobile robotics and haptic systems. This program has a thesis requirement.
- The MSE in Electrical & Computer Engineering - Advanced Mobility is designed for individuals who wish to acquire a deeper understanding and applied knowledge of the engineering principles of autonomous and electric mobility. In addition, the program provides an opportunity to study business, finance, and management concepts which are valuable to practicing engineers. This program is available online only.
- The MSE in Electrical Engineering is a research-intensive on-campus program designed for individuals who wish to deepen their understanding of electrical engineering principles and applications and to develop their skills in independent research. Students study topics such as digital systems, electric machine design, fuel cell system integration and packaging, and robot dynamics and control. This program has a thesis requirement.
- The MSE in Mechanical Engineering program is designed for individuals who wish to deepen their understanding of mechanical engineering principles and applications and to develop their skills in independent research. Students can study a variety of topics including fuel cells, unmanned aerial vehicles, engineering optimization, green energy conversion, composite materials and lightweighting, and mechanics of materials. This program has a thesis option.