Master of Engineering VS Master of Science in Engineering

WHAT'S THE DIFFERENCE?
Rather than a difference in curricula, structure, or time, the true distinction in these degrees lies in the result of which career path they'll take you.

MASTER OF ENGINEERING (MENG)
MEng degrees tend toward business management, helping working engineers move into leadership roles.
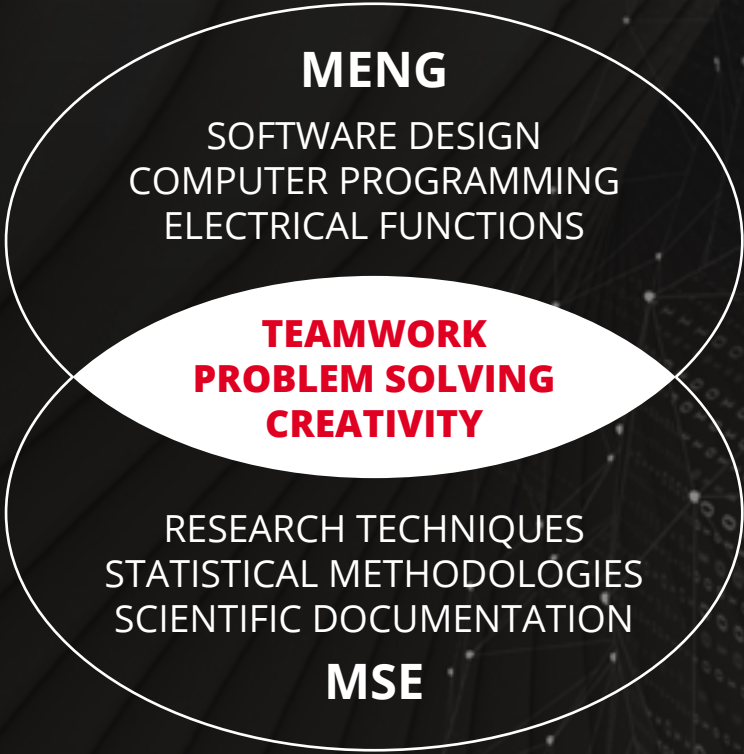
MASTER OF SCIENCE IN ENGINEERING (MSE)
MSE degrees tend toward research, supporting those looking to pursue a Ph.D. or a career in academia.

Specifications

	MENG	MSE
GRE SCORE REQUIRED	NO	YES
CURRICULUM	GENERALIZED	SPECIALIZED
SKILLS FOCUS	PRACTICAL	RESEARCH
FINAL PROJECT REQUIRED	NO	YES
YEARS TO COMPLETE	1-2	2-3
ROLES/CAREER PATHS	INDUSTRY	RESEARCH & ACADEMIC

Essential Skills

MENG
SOFTWARE DESIGN
COMPUTER PROGRAMMING
ELECTRICAL FUNCTIONS

TEAMWORK
PROBLEM SOLVING
CREATIVITY

RESEARCH TECHNIQUES
STATISTICAL METHODOLOGIES
SCIENTIFIC DOCUMENTATION
MSE

Work Environments

Although both degrees reinforce a career in engineering, most MEng graduates work in environments conducive to their engineering specialty, while MSE graduates may work in numerous disciplines, spending their days in laboratories, offices, or universities.

Common MEng Industries

- Aerospace & Aviation
- Architectural Engineering
- Cyber Security
- Data Science
- Robotics
- Software Publishing

Common MSE Industries

- Academia
- Computational Intelligence
- Consulting
- Healthcare
- Research & Development
- Systems Biology

UC Online Master of Engineering Degrees

The **Master of Engineering in Electrical Engineering** focuses on advancements in technology within the manufacturing space to embrace challenges and solve problems.

The **Master of Engineering in Robotics & Intelligent Autonomous Systems** focuses on advanced intelligent hardware and software to design sophisticated autonomous robotic devices.

The **Master of Engineering in Mechanical Engineering** focuses on combining physics and mathematics principles to design, create, and maintain mechanical systems.

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