

Graduate Certificate in Systems Engineering

The online Graduate Certificate in Systems Engineering is designed for students pursuing education in the systems engineering field. In this program, students will gain the skills to apply systems thinking to engineering and operational challenges, use tools to manage systems throughout their lifecycle, interpret stakeholder requirements for analysis and design, and apply quantitative analysis techniques to solve complex engineering problems.

The Systems Engineering certification is available exclusively to students enrolled in the Master of Science in Engineering Management.

Note: Certificate programs are not eligible for Title IV Federal Financial Aid unless taken as part of a degree program.

Program-Level Student Learning Outcomes

Students will:

- Apply systems thinking tools to engineering and operational problems.
- Employ systems engineering tools to different types of systems throughout their lifecycle.
- Interpret stakeholder requirements for use in system analysis and design.
- Perform quantitative analysis techniques to systems engineering problems.

Worldwide Certificate Requirements

SYSE 500	Fundamentals of Systems Engineering	3
SYSE 530	System Requirements Analysis and Modeling	3
SYSE 560	Introduction to Systems Engineering Management	3
SYSE 610	System Architecture Design and Modeling	3
Total Credits		12