

DOCTOR OF ENGINEERING IN THE FIELD OF SYSTEMS ENGINEERING

EMSE 8199

Praxis Research (taken for a total of 24 credits)

The doctor of engineering (DEng) in systems engineering addresses the widespread need for practitioners who can apply knowledge from the program of study in a business or technical environment. The DEng student engages a practical problem and takes a new approach to its resolution, applying advanced systems engineering theories and practices to research and recommend a useful solution. The DEng degree empowers the student—who is likely already a practicing engineer—to create advanced, hands-on treatments of complex systems engineering problems.

ADMISSIONS

Admissions Completed GW application for graduate admission Requirements:

Bachelor's and master's degrees (the program does not allow for direct entry students) in engineering, applied science, mathematics, computer science, information technology or related field from accredited institutions

A minimum graduate level GPA of 3.2

3 years relevant professional experience preferred

Up-to-date resume

Standardized TOEFL, IELTS, or PTE scores are required of all test scores: applicants who are not citizens of countries where English is the official language. Check our International Students Page: <https://graduate.engineering.gwu.edu/international-admissions> (<https://graduate.engineering.gwu.edu/international-admissions/>)

to learn about the SEAS English language requirements and exemption policy. Test scores may not be more than two years old.

REQUIREMENTS

The following requirements must be fulfilled: 48 credits, including 6 credits in required core courses, 18 credits in elective courses, and 24 credits in Praxis research.

Code	Title	Credits
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Coursework phase

Required core courses

EMSE 6765	Data Analysis for Engineers and Scientists	
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EMSE 8100	The Praxis Proposal	
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Electives

6 courses (18 credits) selected in consultation with the advisor.

Research phase