

DOCTOR OF ENGINEERING IN THE FIELD OF SYSTEMS ENGINEERING - ONLINE

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/>) 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
Coursework phase		
Required core courses		
EMSE 6765	Data Analysis for Engineers and Scientists	
EMSE 8100	The Praxis Proposal	
Electives		
6 courses (18 credits) selected in consultation with the advisor.		

Research phase

EMSE 8199

Praxis Research (taken for a total of 24 credits)