DOCTOR OF ENGINEERING IN THE FIELD OF ENGINEERING MANAGEMENT

The Doctor of Engineering (DEng) in the field of Engineering Management (EM) is designed for students who seek a practice- or praxis-oriented doctoral degree. Such students typically have professional needs that the traditional PhD degree does not meet. The DEng (EM) focuses on solutions to real-world problems. Unlike the PhD, for which fundamental research leads to foundational work that is published and contributes to the basic understanding of a field, the DEng (EM) is applied, not basic research.

In a broad-based program of study, the DEng (EM) course work culminates in the student’s production of a praxis for use by practicing engineers. The DEng (EM) is ideal for individuals doing advanced engineering in the workplace, who want to update their knowledge with cutting-edge techniques from the engineering disciplines, and cap it with a formal degree that recognizes their contributions to the field.

Specific admission requirements are shown on the Graduate Program Finder. [http://www.gwu.edu/all-graduate-programs](http://www.gwu.edu/all-graduate-programs)

Visit the program website [http://emse.offcampus.gwu.edu/doctor-engineering-degree-program](http://emse.offcampus.gwu.edu/doctor-engineering-degree-program) for additional information.

REQUIREMENTS

Credit Requirements

The following requirements must be fulfilled: 45 credits, including 30 credits in required courses and 15 credits in research culminating in a practice-based case study.

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Required</td>
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<tr>
<td>EMSE 6115</td>
<td>Uncertainty Analysis for Engineers</td>
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<tr>
<td>EMSE 6992</td>
<td>Special Topics (Quantitative Methods for Engineering Managers)</td>
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A minimum of 6 credits of EMSE analytical methods courses selected in consultation with advisor.

A minimum of 9 credits of EMSE engineering management courses selected in consultation with advisor.

Electives

6 credits selected in consultation with advisor

Praxis

EMSE 6992 Special Topics (Research Methods for the Praxis)  

*Students must complete the praxis proposal examination by preparing and defending their proposal before a committee of at least two full-time SEAS faculty members and one outside advisor external to the faculty.