

APPLIED ENGINEERING MANAGEMENT, CAPSTONE CERTIFICATE

The Applied Engineering Management capstone certificate is a fully online curriculum designed to enable engineers to successfully lead technical teams. It incorporates fundamental applied management skills such as leadership, data-driven decision-making, and economic analysis for managers. This capstone certificate can be a standalone credential or a stepping stone to the master's degree in Engineering Management, for qualified applicants.

HOW TO GET IN

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APPLICANT REQUIREMENTS

- BS degree in engineering from an ABET-approved program.*
- Minimum undergraduate grade point average (GPA) of 2.75 on the equivalent of the last 60 semester hours (approximately two years of work).
 - Applicants from an international institution must have a strong academic performance comparable to a 2.75 for an undergraduate degree. All GPAs are based on a 4.0 scale.
- GRE: Not required but may be considered if available.
- International degree-seeking applicants must demonstrate English proficiency by providing official results of an English proficiency exam. Scores must be within two years of the anticipated start of enrollment.
 - TOEFL: 92 internet (iBT)
 - IELTS: 7.0
 - Duolingo English Test: 125

* Interested applicants with BS degrees in related fields should contact the Graduate Academic Advisor for more specific admission information at gradadmissions@interpro.wisc.edu. For further details about the program, please see the program website.

ADMISSION

Applications are accepted for admission to all three terms (fall, spring, summer).

- Fall deadline: Aug 1
- Spring deadline: Dec 1
- Summer deadline: June 1

APPLICATION STEPS

1. Submit an online application for admission (<http://continuingstudies.wisc.edu/advising/apply.htm>) as a University Special student, selecting UNCS Capstone Certificate and the program: Applied Engineering Management. This application is received and processed by Adult Career and Special Student Services with final decision held for approval from the specific capstone certificate coordinator.

2. Submit the following materials to gradadmissions@interpro.wisc.edu:
 - a. Resume/CV that includes educational history and professional experience
 - b. Transcripts of all previous college work
 - c. Two letters of recommendation submitted by the recommender. Use this recommendation form (<https://uwmadison.box.com/s/104t5ce1rvo4qaccsbepe1qlwhd1sakw/>).
3. After a decision has been made, the Graduate Advisor will contact you by email to inform you of the decision and inform you of next steps.

REQUIREMENTS

REQUIREMENTS GRADE REQUIREMENTS

- Students must complete all courses with a minimum GPA of 2.00 to continue to the next class.

REQUIRED COURSES

Students must complete 9 credits from the following courses.

Code	Title	Credits
E P D 610	Engineering Analysis for Decision Making	3
E P D 611	Engineering Economics and Management	3
E P D 710	Foundations of Engineering Leadership	2
Select one of the following:		1
E P D 701	Writing for Professionals	
E P D 702	Professional Presentations	
E P D 712	Ethics for Professionals	
E P D/GEN BUS/OTM 784	Project Management Essentials	
E P D 605	Fundamentals of Technical Project Management	

Total Credits **9**

MINIMUM REQUIREMENTS FOR CAPSTONE CERTIFICATE COMPLETION

- Students must earn a minimum grade of C in each course used to meet Capstone Certificate requirements.
- Courses in which a student elects the pass/fail or audit option will not count toward completion of Capstone Certificate requirements.
- All of the Capstone Certificate credits must be earned "in residence" (which includes on campus and distance-delivered courses) at UW-Madison.
- All of the Capstone Certificate credits must be earned while enrolled in the Capstone Certificate program.

Individual Capstone Certificate programs may have additional requirements for completion, which will be listed above as/if applicable.

LEARNING OUTCOMES

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1. Assess foundational engineering management and leadership qualities/skills.
2. Evaluate nuances of financial decision making and capital budgeting.
3. Apply data analysis tools and decision-making methodology to engineering applications.
4. Implement a plan to intentionally grow skillset in one engineering management area: project management, communications or ethics.