

ENGINEERING LEADERSHIP AND INNOVATION MANAGEMENT

Degree Requirements

Master of Engineering (M.Eng.)

Requirements listed here are in addition to Graduate Council policies listed under GCAC-700 Professional Degree Policies (<https://gradschool.psu.edu/graduate-education-policies/>).

Total required credits for the ELIM program is 30 credits.

Code	Title	Credits
Required Courses		
ENGR 405	Project Management for Professionals ¹	3
ENGR 408	Leadership Principles ¹	3
ENGR 411	Entrepreneurship Business Basics ¹	3
ENGR 501	Engineering Leadership for Corporate Innovation	3
ENGR 802	Engineering Across Cultures and Nations	3
ENGR 804	Engineering Product Innovation	3
Electives ²		
	500-level elective	3
	500- or 800-level elective	3
	400-, 500-, or 800-level elective	3
Culminating Experience		
ENGR 805	ELIM Capstone Project ³	3
Total Credits		30

- identify and assess the impact of opportunities and threats in a company's external environment, including its industry and its set of competitors;
- identify and assess a company's internal strengths and weaknesses, and match them with its opportunities and threats to suggest alternative strategies;
- define the business-level strategies of a company;
- define competitors, competitive rivalry, competitive behavior, and competitive dynamics;
- and describe corporate-level strategy of the company as it relates to the capstone project.

¹ Students entering the program who have previously taken ENGR 405, ENGR 408 or ENGR 411 will be required to substitute alternate courses under the direction of the program director.

² These electives (course options list available) will be chosen by the student, in consultation with their company (if they are associated with a sponsoring company) and the ELIM program director. Electives should be chosen to meet the needs and interests of the student and can be selected from across the university. The electives can utilize existing courses within the graduate curricula of the College of Engineering, as well as any courses that are open to students from across the university such as the Smeal College of Business, Psychology, or Organization Development and Change and Workforce Education and Development within the College of Education, allowing the student to expand his/her knowledge in a technical, business or psychology focus area. Students may also pursue a graduate certificate or minor through the completion of these elective credits. A list of recommended courses and potential certificates/minors that may be of interest to our students is maintained by the program office.

³ The Capstone course provides an opportunity to apply and integrate the knowledge and skills that were gained throughout the ELIM program with strategic management concepts. Capstone projects will target real world opportunities, problems, and challenges of an existing organization. Students who successfully complete this course will be able to: