

ENGINEERING DESIGN AND INNOVATION

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/>).

The M.Eng. degree is a non-thesis professional master's degree that provides training for advanced professional practice. To receive the Master of Engineering degree in Engineering Design and Innovation, a student must complete at least 31 credits beyond the baccalaureate degree, which includes a culminating experience through EDI 582: Multi-disciplinary Studio (3-credits). A minimum of 18 credits must be in the 500 or 800 series.

A minimum of 31 graduate credits at the 400-, 500-, or 800-level is required as follows:

Code	Title	Credits
Required Courses		
EDSGN 581	Engineering Design Studio I	3
ENGR 411	Entrepreneurship Business Fundamentals	3
LPE 853	Engineering, Law, and Policy Systems	3
ENGR 501	Engineering Leadership for Corporate Innovation	3
EDI 590	Colloquium	1
Focus Area Electives		
Students must select at least 6 credits within one of the following focus areas from a list of approved courses maintained by the program.		6
Engineering Design (EDSGN) Focus Area		
Engineering Leadership and Innovation Management (ELIM) Focus Area		
Engineering, Law, and Policy (ELP) Focus Area		
Entrepreneurship (ESHIP) Focus Area		
General Electives		
Students must select 9 credits of general electives from a list of approved concentrations maintained by the program.		9
Culminating Experience		
Students must complete the following culminating experience course:		3
EDI 582	Multi-disciplinary Studio (Change proposal to change EDSGN 582 to EDI 582 in CIM, with additional changes to convert it to the culminating experience course for the EDI M.Eng.)	
Total Credits		31

Master of Science (M.S.)

Requirements listed here are in addition to Graduate Council policies listed under GCAC-600 Research Degree Policies. (<https://gradschool.psu.edu/graduate-education-policies/>)

The M.S. degree is an academic degree, which is strongly oriented toward research. To receive the Master of Science degree in Engineering Design and Innovation, a student must complete at least 31 credits beyond the baccalaureate degree. At least 18 credits in the 500 and 600 series, combined, must be included in the program. A minimum of 12 credits in course work (400, 500, and 800 series), as contrasted with research, must be completed in the major program. A thesis is required and at least 6 credits of thesis research (EDI 600/EDI 610) must be included in the program.

A minimum of 31 graduate credits is required as follows:

Code	Title	Credits
Required Courses		
EDSGN 581	Engineering Design Studio I	3
ENGR 411	Entrepreneurship Business Fundamentals	3
LPE 853	Engineering, Law, and Policy Systems	3
ENGR 501	Engineering Leadership for Corporate Innovation	3
EDI 590	Colloquium	1
Focus Area Electives		
Students must select at least 6 credits (with at least 3 credits at the 500-level) within one of the following focus areas from a list of approved courses maintained by the program.		6
Engineering Design (EDSGN) Focus Area		
Engineering Leadership and Innovation Management (ELIM) Focus Area		
Engineering, Law, and Policy (ELP) Focus Area		
Entrepreneurship (ESHIP) Focus Area		
General Electives		
Students must select 6 credits of general electives from a list of approved courses maintained by the program. Three of the elective credits must be chosen from a section of the elective list approved as courses with a research methodology / analysis focus. Students in the ELIM, ELP, or ESHIP focus areas must select at least 6 credits at the 500-level to fulfill the 500-level credit requirement for the M.S.		6
Culminating Experience		
EDI 600	Thesis Research (New common course proposal for EDI 600 and 610 in CIM.)	6
or EDI 610	Thesis Research Off Campus	
Total Credits		31

The M.S. in Engineering Design and Innovation requires the completion of an M.S. thesis.

¹ A list of approved focus area courses will be maintained by the program.