

Coursework Requirements

Required Courses

ENGR 800	Engineering Communication	3
ENGR 801	Engineering Management	3
ENGR 820	Energy Resources and Sustainability	3
ENGR 863	Advanced Thermal Fluids	3

Option A

ENGR 897	Research	3
ENGR 898	Thesis	3

Option B

ENGR 895	Applied Research Project	3
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Engineering Electives¹	6-15
Non-Engineering Electives²	0-6
Minimum total	30 units

1. Engineering Electives

ENGR 448	Electrical Power Systems (3)
ENGR 458	Industrial and Commercial Power Systems (3)
ENGR 463	Thermal Power Systems (3)
ENGR 465	Principles of HVAC (3)
ENGR 466	Gas Dynamics and B.L. Flow (3)
ENGR 469	Renewable Energy Systems (3)
ENGR 694	Cooperative Education in Engineering (1,2,3) (approval from engineering graduate coordinator is required)
ENGR 865	Energy-Efficient Buildings (3)
ENGR 866	Engineering Aspects of Air Pollution (3)
ENGR 867	Energy Auditing, Measurement, and Verification
ENGR 871	Advanced Electrical Power Systems (3)

Note: International Students have one semester of grace period, after completion of their course work, not including the ENGR 895 or ENGR 898, to request a Reduced Course Load (RCL) with zero units. After this grace period, they will be required to register for 3 units in engineering. Students should speak to an International Student Advisor at OIP if they wish to request a RCL with zero units.

2. Non-Engineering Electives

Courses selected primarily from sciences, mathematics, social science, or business, upon approval of the graduate coordinator.

a. Elective courses must not duplicate subjects used in satisfying the student's undergraduate degree requirement.

b. A program cannot contain more than 9 units of courses with course number below 700 and higher than 400.

Minimum Prerequisites for conditionally accepted graduate student with a B.S. degree in a program other than Mechanical or Chemical Engineering:

MATH:	MATH 226, 227, 228, 245
PHYS:	PHYS 230/232, 240/242
ENGR:	ENGR 205, 303, 304, 467