

Coursework Requirements

Required Courses

ENGR 800	Engineering Communication	3
ENGR 801	Engineering Management	3
ENGR 844	Embedded Systems	3
ENGR 852	Advanced Digital Design	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 446/447	Control Systems & Labs (3)
ENGR 449	Communication Systems (3)
ENGR 451	Digital Signal Processing (4)
ENGR 456	Computer Systems (3)
ENGR 476	Computer Communications and Networks (3)
ENGR 478	Design with Microprocessors (4)
ENGR 845	Neural-Machine Interfaces: Design and Applications (3)
ENGR 848	Digital VLSI Design (3)
ENGR 849	Advanced Analog IC Design (3)
ENGR 850	Digital Design Verification (3)
ENGR 853	Advanced Topics in Computer Communication and Networks (3)
ENGR 856	Advanced VLSI Design (3)
ENGR 857	Reconfigurable Computing (3)
ENGR 858	Hardware Security and Trust (3)
ENGR 890	Graduate Seminar: Design of MEMS, Computer Forensic, etc (3)
ENGR 897	Research (3)
ENGR 899	Special Study (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.

1. Elective courses must not duplicate subjects used in satisfying the student's undergraduate degree requirement.
2. 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 Electrical or Computer Engineering:

MATH:	MATH 226, 227, 228, 245
PHYS:	PHYS 230/232, 240/242
ENGR:	ENGR 205, 206, 301, 305, 353, 356/357, 478