

Undeclared Engineering Major Requirement Check List 2017-2018

The following courses are required of all engineering students regardless of major. Undeclared students should explore the different majors through freshman seminars, service learning, research experiences and contact with faculty and graduate students.

Requirement	Completed	Units
University Requirements		
University of California Entry Level Writing		n/a
American History and Institutions		n/a
Campus Requirements		
CORE 001 (4)		
WRI 010 (4)		
School of Engineering Requirements		
General Education		
MATH 021 (4) Calculus I		
MATH 032 (4) Statistics		
PHYS 008/008H (4) Intro to Physics I		
Science Requirement* (4-5)		
Computer Science Requirement**(3-4)		
Arts/Humanities GE (4)		
Social Science GE (4)		
Upper-Division Writing Course (4)		
ENGR 097 or SSHA GE course (3)		
Major Preparation		
PHYS 009 (4) Physics II		
MATH 022 (4) Calculus II		
MATH 023 (4) Vector Calculus		
MATH 024 (4) Linear Algebra and Differential Equations		
MATH 032 (4) Probability and Statistics		

* Students must select from BIO 001: Contemporary Biology (4), BIO 005: Concepts and Issues in Biology Today (4), ESS 001: Introduction to Earth Systems Science (4) or ESS 005: Introduction to Biological Earth Systems (4).

- Bioengineering students must take Bio 001 and Bio 001L as part of their major.
- All other Engineering majors (CSE/ENVE/ME/MSE) may choose one course from the above list.

**Students must complete one computer science requirement. Student will take ME 021: Engineering Computing (4), or BIOE 021: Computing for Bioengineers (3), or CSE 020: Introduction to Computing I (2) and CSE 021: Introduction to Computing II (2)

- Bioengineering students must take BIOE 021 as part of their major.
- Computer Science & Engineering students must take CSE 020 and CSE 021 as part of their major.
- All other Engineering majors (ENVE/ME/MSE) must take ME 021 as part of their major.

Notes/Comments