

Plan of Study — Mechanical Engineering S.B. Concentration

Effective for students declaring after August 1, 2026 · AY 2026–2027

Name:

Class:

Email:

Date:

This Plan of Study is a: Declaration Revision

ME Core track: Mechanical Systems Thermal Systems

8-SEMESTER COURSE SCHEDULE (type directly in any cell to change a course)

Fall 1	Spring 1	Fall 2	Spring 2	Fall 3	Spring 3	Fall 4	Spring 4

Click a cell to type. Requirement dropdowns offer course choices; approved alternatives are on page 2.

REQUIRED COURSES

EXAMPLE COURSES — edit to match your plan

Mathematics (sequence by placement)	
Physics (2 courses)	
Chemistry / Advanced Science (2)	
Computer Science (1 course)	
Electronics (1 course)	
ME Core — 6 required (track checked above)	
of which materials — choose one	
Track Elective (1 — list on page 2)	
General Engineering Elective (1 — page 2)	
Engineering Design (2: prereq + ES 100HF)	

ABET distribution to verify: 20 courses total · 4 mathematics · 4 basic science · 12 engineering topics

Advisor notes:

Required Signatures

No concentration course may be taken Pass/Fail or SAT/UNS.

Signing confirms the plan meets the ABET distribution requirements (4 mathematics, 4 basic science, 12 engineering).

Student

Date:

Concentration Advisor

Date:

Click a signature box to sign — in Adobe Acrobat Reader, or via Harvard DocuSign / Adobe Sign for a binding, audit-trailed signature.

Approved Courses & Planning Reference

Reference only — fill in the form on page 1. AY 2026–2027 requirements; the SEAS handbook governs.

Completing this form

- Open in Acrobat Reader. Edit courses, fill the schedule, and save. Sign after advisor review.
- Review courses for your placement. PDF fields do not recalculate or validate edits.
- S.B.: choose a track, then edit its courses manually.
- Check current offerings and prerequisites. Count each course under one requirement only.

Mathematics — follow your placement

- Sequence: Math 1a, 1b, 21a, 21b; begin at your placement. Math 22a/22b may replace 21a/21b.
- Math MA + MB replaces Math 1a; next take Math 1b. Math MA is preparatory and is not counted separately.

Applied Mathematics & Statistics

- Math MA/1a start: no AM 105 or statistics. Math 1b start: add AM 105; no statistics.
- Math 21a start: add AM 105 and one of AM 101, ECE 150, STAT 110. Math 21b start: also add approved higher math to reach four math courses.

Physics (2 courses)

- Physics A: PS 12a, Physics 15a, Physics 16, or AP 50a.
- Physics B: PS 12b, Physics 15b, or AP 50b.

Chemistry / Advanced Science (2 courses)

- Introductory: LS 1a, LPS A, PS 1, PS 10, PS 11, CHEM 10, Physics 15c.
- Upper-level: CHEM 160, PHYS 19, PHYS 125, PHYS 143a, PHYS 151, PHYS 153.
- Only ONE life-science intro (LS 1a or LPS A) may count toward the two.

Computer Science (1 course)

- AM 10 (Fall), CS 32 (Spring), CS 50 (Fall/Spring), or SCI 5 (Spring).

Electronics (1 course)

- ECE 50 (Spring) — the usual choice.
- Or ECE 152 (Fall) together with CS 1140; CS 1140 then counts as the general engineering elective.

ME Core — 6 required courses

- Both tracks: ES 120, ES 123, ES 125, ES 181.
- Add ES 51 for Mechanical Systems OR ES 183 for Thermal Systems.
- Add ONE materials course: ES 190 (Spring) or ES 192 (Fall). Materials counts as core, not an elective.

Track elective — Mechanical Systems

- Choose ONE: ES 128, ECE 155, ECE 159, ES 183, ES 231, ES 220, ES 240.

Track elective — Thermal Systems

- Choose ONE: ES 51, ES 128, ECE 155, ES 231, ES 220, ES 240.

General Engineering Elective — 1 course

- Choose a second eligible track-list course OR one of: ECE 141, ECE 151, ECE 152, ECE 173, ECE 177, ES 53, ES 111, ES 115, ES 121, ES 162, ES 227, ESE 160, ESE 166, CS 51, CS 61, CS 1140, AP 195, BE 110, BE 124, BE 128.
- Do not reuse core, electronics, design, or track-elective credit.
- Math, statistics, and science courses do not count here. Other courses require advisor approval.

Engineering Design — 2 courses

- Choose ES 55 (sophomore year, preferred), ES 96 (junior year), or ES 227 (junior Spring).
- Then complete ES 100HF across senior Fall and Spring; enter ES 100HFA and ES 100HFB in the grid.

Before submitting

- S.B.: at least 20 courses, including 4 math, 4 basic science, and 12 engineering topics.
- Record approved substitutions in Advisor notes. Acrobat dropdowns accept typed entries; use notes if Preview does not.
- No Pass/Fail or SAT/UNS. Count no more than three of ESE 6, ECE 50, ES 51, ES 53.
- S.B. does not allow joint or double concentrations.
- Obtain advisor approval and file a revision whenever your plan changes.

Prerequisite planning

Physics A = PS 12a / Physics 15a / AP 50a · Physics B = PS 12b / Physics 15b / AP 50b · Co: = may be a co-requisite

Course	Offered	Math	Physics / other
ES 51	Fall, Spring	—	—
ES 120	Spring	Math 21a, Co: Math 21b	Physics A
ES 123	Spring	Math 21a, Math 21b	Physics A
ES 125	Fall	Math 21a, Math 21b	Physics A
ES 181	Fall	—	Physics A
ES 183	Spring	Math 21a, Math 21b	Physics A, ES 181
ES 190	Spring	Math 21a, Math 21b	Physics A, Physics B
ES 192	Fall	—	—
ES 55	Fall, Spring	—	sophomore year
ES 96	Fall, Spring	—	junior year
ES 227	Spring	—	ECE 50 or ES 51, junior year
ES 100HF	Fall, Spring	—	ES 55 or ES 96 or ES 227, senior year, full year
ECE 50	Spring	—	—
ECE 152	Fall	Math 1a, Math 1b	Co: Physics B
ES 128	Fall	Math 21a, Math 21b	Physics A, ES 120
ECE 155	Fall	Math 21a, Math 21b	—
ECE 159	Spring	—	Physics A, rec. CS 50
ES 231	Spring	Math 21a, Math 21b	—