

Tufts University – School of Engineering
Class of 2025 (requirements as established in the 2021-2022 Bulletin)
Bachelor of Science in Engineering (BSE)
Major Requirement

* Courses that require a letter grade (i.e., no pass/fail)

The BSE comprises credit requirements and course requirements as established by the School of Engineering and Department of Civil & Environmental Engineering. Students must satisfy the SOE requirements listed in the Credit Requirements box, as well as fulfill all course requirements. The School of Engineering requirements are shown in italics and fall outside second major double counting rules. SHU values listed for each course requirement reflect those associated with the corresponding Tufts course. Unless otherwise noted, course requirements may be satisfied with transfer courses having SHU values that are different than those shown here. In all cases, students should enter the SHUs received or earned in the correct SOE-Attribute column for a given course requirement to ensure they meet the credit requirements. For planning purposes, students completing the BSE requirements with Tufts courses will earn at least 120 SHU.

Mathematics & Natural Sciences*	SHU	SOE Attribute						Term
		C	E	M	NS	HASS	None	
MATH 32 Calculus I	4							
MATH 34 Calculus II	4							
MATH 42 Calculus III	4							
MATH 51 Differential Equations	4							
CHEM 1 Chem. Fund. w/ lab	5							
PHY 11 Gen. Physics I w/ lab	5							
<i>≥30 SHU of SOE-Mathematics + SOE-Natural Sciences are required for the degree. List additional courses below (see note a).</i>								
subtotal	≥30	-	-			-	-	

HASS	SHU	SOE Attribute						Term
		C	E	M	NS	HASS	None	
ENG 1* Expos. Writing or ENG 3	3							
Humanities Elective (b)	≥3							
Social Science Elective (c)	≥3							
<i>≥24 SHU of SOE-HASS are required for the degree. List additional courses below (see note d).</i>								
subtotal	≥24	-	-	-	-			-

Credit Requirements	SOE Attribute						Total
	E	C	M	NS	HASS	None	
<i>SOE Requirements</i>	≥30		≥30		≥24	-	≥120
<i>BSE Requirements</i>	≥45		≥30		≥24	-	≥120
Student Totals							

Engineering & Computing*	SHU	SOE Attribute						Term
		C	E	M	NS	HASS	None	
EN 1 Applications in Eng.	3							
ES 2 Intro. Comp. in Eng. or CS 11 Intro. Comp. Sci.	4							
<i>≥45 SHU of SOE-Engineering + SOE-Computing are required for the degree. List additional courses below (see note e).</i>								
subtotal	≥45			-	-	-	-	

Program Electives	SHU	SOE Attribute						Term
		C	E	M	NS	HASS	None	
<i>≥120 SHU total are required for the degree. List additional courses below.</i>								
subtotal	~21							

Abbreviations:

- SHU = Semester Hour Unit
- SOE = School of Engineering
- C = Courses having attribute SOE-Computing
- E = Courses having attribute SOE-Engineering
- M = Courses having attribute SOE-Mathematics
- NS = Courses having attribute SOE-Natural Sciences
- HASS = Course having attribute SOE-HASS (Humanities, Arts, and Social Sciences)
- None = Course without SOE attribute

Student and Advisor Notes:

BSE Notes

(a) Mathematics and Natural Sciences

Select From:

- Any course having attribute SOE-Mathematics
- Any course having attribute SOE-Natural Sciences

(b) Humanities Elective

At least 3 SHU of Humanities are required. Requirement may not be satisfied with pre-matriculation credits, ENG 1, ENG 3, or a course satisfying the Social Sciences Elective (c).

Select From:

- Any course having attribute SOE-HASS-Humanities

(c) Social Sciences Elective

At least 3 SHU of Social Sciences are required. Requirement may not be satisfied with pre-matriculation credits or a course satisfying the Humanities elective (b).

Select From:

- Any course having attribute SOE-HASS-Social Sciences

(d) Humanities, Arts or Social Sciences Electives

Select From:

- Any course having attribute SOE-HASS
- Any course having attribute SOE-HASS-Humanities
- Any course having attribute SOE-HASS-Arts
- Any course having attribute SOE-HASS-Social Sciences

(e) Engineering and Computing Electives

Select From:

- Any course having attribute SOE-Computing
- Any course having attribute SOE-Engineering