## Tufts University – School of Engineering

### Class of 2026 (requirements as established in the 2022-2023 Bulletin)

**Bachelor of Science in Engineering Physics (BSEP)**

### Major Requirement

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

The BSEP comprises credit requirements and course requirements as established by the School of Engineering and Department of Electrical & Computer Engineering in collaboration with the Department of Physics and Astronomy. 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 BSEP requirements with Tufts courses will earn at least 120 SHU.

<table>
<thead>
<tr>
<th>SOE Attribute</th>
<th>Credit Requirements</th>
<th>E</th>
<th>C</th>
<th>M</th>
<th>NS</th>
<th>HASS</th>
<th>None</th>
<th>Term</th>
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<tr>
<td>Mathematics &amp; Natural Sciences*</td>
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<td>CHEM 1 Gen. Chem. I w/ lab or CHEM 11 Exp. Gen. Chem. I w/ lab or CHEM 16 Chem. of Materials</td>
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<td>EN 1 Applications in Eng.</td>
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<td>ES 2 Intro. Comp. in Eng. or CS 11 Intro. Comp. Sci.</td>
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<tr>
<th>SOE Attribute</th>
<th>Total</th>
<th>E</th>
<th>C</th>
<th>M</th>
<th>NS</th>
<th>HASS</th>
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**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:**

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**BSEP Notes**
(a) Probability and Statistics
Select From:
PHY 153, ES 56, MATH 165, MATH 166, BIO 132, EE24

(b) Physics and Astronomy Electives
Select From:
Any PHY or ASTRO course having attribute SOE-Natural Sciences

(c) 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 (d).
Select From:
Any course having attribute SOE-HASS-Humanities

(d) 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 (c).
Select From:
Any course having attribute SOE-HASS-Social Sciences

(e) Humanities, Arts or Social Sciences Electives
Select From:
Any course having attribute SOE-HASS-Humanities
Any course having attribute SOE-HASS-Arts
Any course having attribute SOE-HASS-Social Sciences

(f) Engineering Sciences Electives
Select From:
ES 4, ES 5, ES 7, ES 8, ES 9, ES 10, ES 11, & ES 15

(g) Engineering and Computing Discipline Electives
Concentrated study in one area Engineering or Computing. Courses must be at least 3 SHU each and cannot be used to satisfy any other course or elective requirement.
Select from:
Any course having attribute SOE-Engineering or SOE-Computing within a selected discipline.

(h) Engineering and Computing Electives
Select From:
Any course having attribute SOE-Computing
Any course having attribute SOE-Engineering

(i) Technical Electives
Select From:
Any course having attribute SOE-Computing
Any course having attribute SOE-Engineering
Any course having attribute SOE-Mathematics

(j) Technical Electives
Select From:
Any course having attribute SOE-Computing
Any course having attribute SOE-Engineering
Any course having attribute SOE-Mathematics
Any PHY or ASTRO course having attribute SOE-Natural Sciences