Technical Electives (TEs) are designed to provide additional breadth and depth in the Biomedical and partner major degrees. BME-EE-L&O students take 9 credits of ECE TEs chosen from the following lists.

<table>
<thead>
<tr>
<th>Key:</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>F - Fall</td>
<td>* Available Every Other Year (Even)</td>
</tr>
<tr>
<td>S - Spring</td>
<td>** Available Every Other Year (Odd)</td>
</tr>
<tr>
<td>SS - Summer</td>
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</tbody>
</table>

◆ See below for information on how to obtain course overrides

Note: 1. Classes otherwise required for the degree are not allowed for TE credit.
2. Course availability changes frequently. Please check with individual departments regarding course availability.

| BME-EE-L&O students must take 9 credits of ECE TEs from the following list: |
|-----------------------------|----------------|
| **ECE Technical Electives** |                  |
| COURSE                     | NAME                  | TERM | CR |
| ECE 312                    | Linear System Analysis II | S    | 3  |
| ECE/MATH 430               | Fourier and Wavelet Analysis with Apps | S    | 3  |
| ECE471A                    | Semiconductor Physics | F    | 1  |
| ECE471B                    | Semiconductor Junctions | F    | 1  |
| ECE495 (A-C)²              | Independent Study     | F, S | 1-6|
| ECE 503                    | Ultrafast Optics      | S    | 3  |
| ECE 504                    | Physical Optics       | F    | 3  |
| ECE 505                    | Nanostructures: Fundamentals & Applications | F    | 3  |
| ECE 506                    | Optical Interferometry & Laser Metrology | F    | 3  |
| ECE 507                    | Plasma Physics and Applications | S    | 3  |
| ECE/Biom 517               | Advanced Optical Imaging | F    | 3  |
| ECE/Biom 518               | Biophotonics          | F    | 3  |
| ECE/Biom 526               | Biological Physics    | F    | 3  |
| ECE 546                    | Laser Fundamentals & Devices | S    | 3  |
| ECE 572                    | Semiconductor Transistors | S    | 1  |
| ECE 573                    | Semiconductor Optoelectronics Laboratory | S    | 3  |
| ECE 574                    | Optical Properties in Solids | S    | 3  |
| Math 419                   | Introduction to Complex Variables | F    | 3  |
| PH 315                     | Modern Physics Lab    | S    | 2  |
| PH 425                     | Advanced Physics Lab  | S    | 2  |
| PH 452                     | Intro to Quantum Mechanics II | S    | 3  |
| PH 462                     | Statistical Physics   | F    | 3  |

ECE 48X and 58X (experimental) courses in Lasers and Optics may also be available; check with your ECE Adviser

² A maximum total of 3 credits of 495 Independent Study may be applied towards EE technical elective degree requirements.

◆ For 500-level ECE courses, you should be able to register if you meet the pre-requisites. If you need an override, forward permission to Courtney.Johnsrud@colostate.edu

◆ To request overrides for other courses (e.g. 500-level or prereq override), email the course professor or the department teaching the course.