Engineering Physics majors have the opportunity to focus their elective course work in a specific concentration area and earn a certificate if they are interested in a more focused field of study. Successful completion of an ENGP certificate requires a student to choose any four out of the seven total electives (i.e., out of the four engineering electives, one contemporary physics elective, one classical physics elective, and one broader technical elective) from within a particular concentration area.

Engineering Physics Major (https://catalog.tulane.edu/science-engineering/physics-engineering/engineering-physics-major/)

The allowable electives for the Electrical Engineering Certificate are listed in the Requirements.

### Requirements

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>
| ENGP 3560 | Photonic Materials & Devices  
| ENGP 3570 | Semiconductor Devices  
| ENGP 3620 | MicroFab and Nanotech  
| PHYS 3230 | Quantum Information Sci & Eng  
| PHYS 3310 | Quantum Optics  
| PHYS 3630 | Electromagnetic Theory  
| ENGP 3700 | Elect Prop of Materls  
| PHYS 4470 | Intro Quantum Mechanics  
| PHYS 4650 | Optics  
| MUSC 4400 | Music & Dsp  
| MUSC 4410 | Music Performance System  
| BMEN 2730 | Biomedical Electronics  
| BMEN 3730 | Biomedical Signals and Systems  
| BMEN 6170 | Biomedical Optics  
| CENG 4500 | Chemical Process Control  
| CENG 4780 | Special Topics (Electrochemistry)  
| ARCH 2213 | Building, Climate, Comfort  
| ARCH 2223 | Building, Climate, Comfort Lab  

Total Credit Hours 22

1 Satisfies a Broader Technical elective.
2 Satisfies a Classical Physics elective.
3 Satisfies a Contemporary Physics elective.
4 Satisfies an Engineering elective.