CompE, 4 semesters

1st Semester, Freshman Year, Fall 2017

- ECE 120 (Introduction to Computing) 4
- CHEM 102 (General Chemistry I) 3
- CHEM 103 (General Chemistry Lab I) 1
- MATH 221 (Calculus I) 4
- ECON 102 (Microeconomic Principles) 3
- ENG 198 (Technical Communication) (1/2 a semester class) 2

Total 17

An alternative could be to take ECE 110 and ECE 120 together. It's definitely doable provided you structure your classes such that you're not overwhelmed - maybe take a GenEd along with it to balance the load out. I was required to take ENG 198 as training for Engineering Ambassadors. It is a super cool 2 credit hour class which counts as a tech elective. You learn how to deliver technical presentations which is a really important skill to have - definitely recommend taking that class if you can fit it in.

2nd Semester, Freshman Year, Spring 2018

- ECE 110 (Introduction to Electronics) 3
- MATH 231 (Calculus II) 3
- ECE 220 (Computer Systems and Programming) 4
- PHY 211 (Mechanics) 4
- REL 110 (World Religions) 3

Total 17

You could take Phy 212 first and push 211 for later because technically, mechanics doesn't serve as a prereq for any ECE class. But 212 is supposed to be a little harder than 211 so maybe it could be beneficial to take 211 first. For anyone who doesn't have any programming experience at all, maybe learn a little bit of programming basics before you enter ECE 220 - it's definitely not required but it wouldn't hurt.

3rd Semester, Sophomore Year, Fall 2018

- CS 225 (Data Structures) 4
- CS 173 (Discrete Structures) 3
- MATH 241 (Calculus III) 4
- STAT 100 (Statistics - Online) 3
- THEA 101 (Introduction to Theatre Arts - Online section) 3

Total 17

CS 225 is a super cool class. Its really interesting plus its EXTREMELY helpful if you're looking for software engineering internships - take it as soon as you can if software development is something that interests you. When I took the class we were allowed to take 173 and 225 concurrently, however, I don't think you're allowed to do that anymore so make sure to check the rules and complete the prereqs accordingly. THEA 101 is a super easy GenEd. It's really easy and you also get the chance to watch two plays during the semester. If you're looking for an easy Humanities GenEd, definitely look into THEA 101. I took STATS because it was a prereq for business minor. It doesn't count towards graduation for ECE students though, so don't bother taking it unless you need to.
### 4th Semester, Sophomore Year, Spring 2019

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 415 (Linear Algebra)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 286 (Differential Equations)</td>
<td>4</td>
</tr>
<tr>
<td>ECE 448 (Artificial Intelligence)</td>
<td>3</td>
</tr>
<tr>
<td>PHY 212 (Electricity and Magnetism)</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 499 (Independent Study)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 17

For anyone who wants to take Machine Learning but doesn't have any Linear Algebra background, definitely look into Math 415. They teach you everything that you need to know right from the basics and it also counts as a Tech Elective. I'm doing research this semester under a professor who works at the Department of Music through the independent study course.