

CLAS BACHELOR OF SCIENCE IN ENGINEERING PHYSICS BS

Electrical Engineering (EE)

FRESHMEN YEAR

| Fall Semester | Credits | Spring Semester | Credits |
|--------------------------------------|----------|---------------------------------------|----------|
| MATH 1131Q– Calculus I | 4 | MATH 1132Q – Calculus II | 4 |
| CHEM 1127Q – Gen. Chem. I | 4 | CHEM 1128Q – Calculus II | 4 |
| PHYS 1501Q – Physics for Engineers I | 4 | PHYS 1502Q – Physics for Engineers II | 4 |
| ENGL 1010 or ENGL 1011 Acad. Writing | 4 | Gen Ed Content Area I-A | 3 |
| ENGR 1000 - Orientation | 1 | CSE 1010C – Intro To Computing | 3 |
| | <hr/> 17 | | <hr/> 18 |

SOPHOMORE YEAR

| Fall Semester | Credits | Spring Semester | Credits |
|--|----------|-------------------------------------|----------|
| MATH 2110Q – Multivariable Calculus | 4 | MATH 2410Q – Differential Equations | 3 |
| PHYS 3101Q – Mechanics I | 3 | ECE 2001W – Electric Circuits | 4 |
| PHYS 2501W – Lab in Electricity, Magnetism, & Mechanics | 3 | PHYS 2300Q – Quantum Physics | 3 |
| CSE 2300 – Logic Design | 4 | Gen Ed Content Area 1-C | 3 |
| Gen Ed Content Area 1-B | 3 | Gen Ed Content Area II | 3 |
| | <hr/> 17 | | <hr/> 16 |

JUNIOR YEAR

| Fall Semester | Credits | Spring Semester | Credits |
|--------------------------------------|----------|--------------------------------------|----------|
| ECE 3201 – Elect. Devices & Circuits | 4 | ECE 3111 – Systems Analysis | 3 |
| ECE 3101 – Signals and Systems | 3 | PHYS 3202Q – Elect. and Magnetism II | 3 |
| PHYS 3201Q – Elect. & Magnetism I | 3 | STAT 3345Q – Prob. Mod. For Engr. | 3 |
| MATH 2210Q – Linear Algebra | 3 | Gen Ed Content Area II | 3 |
| MATH 3410Q – Diff. Eqns. Appl. | 3 | Gen Ed Content Area IV If needed) | 3 |
| | <hr/> 16 | | <hr/> 15 |

SENIOR YEAR

| Fall Semester | Credits | Spring Semester | Credits |
|--|----------|--|----------|
| ECE 4901 – Comp. & Elec. Eng. Design I | 2 | ECE 4902 – Comp. & Elec. Engr. Design II | 3 |
| ECE 4111 – Communication Systems | 3 | ECE 4211 – Micro/Optoelectronic Device | 3 |
| Gen Ed Content Area I-D | 3 | BIO 1107/1108/1110 | 4 |
| PHYS 3401Q – Quantum Mechanics | 3 | Gen Ed Area IV (if needed/Elective) | 3 |
| PHYS 3300Q – Stat./Therm. Physics | 3 | ECE 3225 – Optical Engineering Lab | 3 |
| ECE 3223 – Optical Engineering | 3 | | |
| | <hr/> 17 | | <hr/> 16 |

NOTES:

- 128 total credits are required for a degree.
 - The CHEM, MATH, PHYS, and BIO 1XXX courses are CLAS BS requirements, Gen Ed Area III; alternate choices exist.
 - An appropriate number of Gen Ed courses are listed, though the order they appear is arbitrary and specific choices are not made, with the exception of AREA III – Science and Technology.
- For a synopsis of Gen Ed requirements for CLAS, students should see the catalog for the year in which their major is declared, or the webpage of the academic services center <http://clasadvising.uconn.edu/general-education-requirements/>
- For more details please see the university catalog, the physics plan of study, and contact your advisor.