

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 – Chem. 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
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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 2301 – Logic Design	4	Gen Ed Content Area 1-C	3
Gen Ed Content Area 1-B	3	Gen Ed Content Area II	3
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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
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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		
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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.

Beginning Fall 2019 one “E” course required (can simultaneously fulfill a Gen Ed Content Area requirement).