

BACHELOR OF SCIENCE IN MATH – PHYSICS PHYSICS EMPHASIS

The following is a course of study that will lead to a BS in Mathematics-Physics, with an emphasis in Physics. It assumes quality high school preparation in pre-calculus mathematics and physics but no entering credit. Please note that this is only a suggested schedule. Differing circumstances and interests will cause individual schedules to vary from this list.

Fall – Year 1 (16 credits) PHYS 1600 MATH 1131 (Calc 1) CHEM 1127* ENGL 1010/1011 (Writing requirement)	Spring – Year 1 (18 credits) PHYS 1601 MATH 1132 (Cal 2) CHEM 1128* Gen Ed Content Area I-A Gen Ed Content Area II
Fall – Year 2 (17 credits) PHYS 1602 MATH 2110 (Multivariable) PHYS 2501W (Laboratory in Mechanics) Gen Ed Content Area I-B Gen Ed Content Area II	Spring – Year 2 (16 credits) MATH 2210 (Applied Linear Algebra) PHYS 2300 (Development of Quantum Physics) BIO 1107/1108/1110 PHYS <u>Restricted</u> Elective 1 (see below)‡ Gen Ed Content Area I-C
Fall – Year 3 (15 credits) MATH 2410 (Elem Diff Equations) PHYS 3101 (Mechanics 1) PHYS 3201 (Electricity and Magnetism 1) PHYS 3401 (Quantum Mech 1) Gen Ed Content Area I-D	Spring – Year 3 (15 credits) MATH 3146 (Intro to Complex Variables) PHYS 3202 (Electricity and Magnetism 2) PHYS 3300 (Statistical and Thermal Mechanics) Elective Elective
Fall – Year 4 (12 credits) MATH 3410 (Diff Equations for Applications) PHYS <u>Restricted</u> Elective 2 (see below) ‡ Elective (perhaps second “W” Course) Gen Ed Content Area IV (if needed) / Elective	Spring – Year 4 (12 credits) MATH 3510 PHYS <u>Restricted</u> Elective 3 (see below)* Elective Gen Ed Content Area IV (if needed) / Elective

NOTES:

- 120 total credits are required for a degree.
- * Student might consider taking over the summer or a later semester to balance load.
- The CHEM, MATH, PHYS, and BIO 1XXX courses are CLAS BS requirements, Gen Ed Area III; alternate choices exist.
- ‡ 9 credits of PHYS restricted electives to be selected from 2200, 2400, 2502, 3102, 3103, 3104, 3150, 3989, 4093, 4095, 4096, 4098, 4099, 3402, 4100, 4130, 4140, 4150, 4210, 4300, 4350, 4900.
- 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.
- In addition to those listed, students must take one other W course and satisfy the foreign language requirement. 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).