

**BACHELOR OF SCIENCE IN PHYSICS**  
**GENERAL CONCENTRATION with Astrophysics Minor**

The following is a course of study that will lead to a BS in Physics, General Concentration. 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.

<b>Fall – Year 1</b> (16 credits) PHYS 1600 MATH 1131 (Calc 1) CHEM 1127 ENGL 1010/1011 (Writing requirement)	<b>Spring – Year 1</b> (15 credits) PHYS 1601 MATH 1132 (Calc 2) CHEM 1128 Gen Ed Content Area I-A
<b>Fall – Year 2</b> (17 credits) PHYS 1602 MATH 2110 (Multivariable) [Related Elective 1] PHYS 2501W (Mechanics Lab) <b>PHYS 2701 (Astrophysics I)</b> [Physics Elective 1] Gen Ed Content Area I-B	<b>Spring – Year 2</b> (15 credits) PHYS 2300 (Development of Quantum Physics) PHYS 2400 (Math Methods) [Physics Elective 2] <b>PHYS 2702 (Astrophysics II)</b> [Physics Elective 3] MATH 2410 (Elem Diff Eq) [Related Elective 2] Gen Ed Content Area I-C
<b>Fall – Year 3</b> (15 credits) PHYS 3101 (Mechanics 1) PHYS 3201 (Electricity and Magnetism 1) <b>PHYS 4710* (Stars) [Astro Elective 1]</b> PHYS 3401 (Quantum Mech 1) Gen Ed Content Area I-D	<b>Spring – Year 3</b> (15 credits) PHYS 3202 (Electricity and Magnetism 2) PHYS 2502 or 3150 or 4150 (advanced lab)** <b>PHYS 4720* (Galaxies) [Astro Elective 2]</b> PHYS 3402 (Quantum Mech 2) [Physics Elective 4] Gen Ed Content Area II
<b>Fall – Year 4</b> (16 credits) BIO 1107/1108/1110 <b>PHYS 4730* (Cosmology) [Astro Elective 3]</b> Related Elective 3 Gen Ed Content Area IV (if needed) / Elective Elective (perhaps second “W” Course)	<b>Spring – Year 4</b> (15 credits) PHYS 3300 (Statistical and Thermal Mechanics) Related Elective 4 Gen Ed Content Area II Gen Ed Content Area IV (if needed) / Elective Elective

**NOTES:**

- 120 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.
  - MATH 2110-2410 are pre-reqs for physics courses, but also count towards 12 credits in a related field.
  - We encourage the related field electives to be concentrated in a particular field.
  - **\*Restricted elective selected from PHYS 4710, 4720, 4730, 4130, 4150, 4096W.**
  - \*\* Particular advanced PHYS Lab courses are not offered every year, and 4150 is typically a fall course. Students should check with their advisor for scheduling.
  - PHYS 2400 and 3402 are listed as examples and suggestions for two of four required physics electives.
  - 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.