

Bachelor of Science in Astronomy (BIC)

A Suggested Sequence of Required Courses (2018-2019 Catalog)

F r e s h m a n Y e a r

Fall	Spring
_____ 0 Chapel (CHA 1088)	_____ 0 Chapel (CHA 1088)
_____ 2 BIC 1212 Examined Life I	_____ 3 CHE (1301 recommended)
_____ 3 BIC 1314 World Cultures I	_____ 3 BIC 1324 World Cultures II
_____ 4 BIC 1413 Rhetoric I	_____ 3 BIC 1323 Rhetoric II
_____ 3 MTH 1321 Calculus I (<i>if eligible</i>)	_____ 3 MTH 1322 Calculus II
_____ 4 PHY 1420 General Physics I	_____ 4 PHY 1430 General Physics II
Total: 17	Total: 17

S o p h o m o r e Y e a r

Fall	Spring
_____ 3 BIC 2330 Social World I	_____ 3 BIC 2340 Social World II
_____ 3 BIC 2334 World Cultures III	_____ 3 BIC 2344 World Cultures IV
_____ 3 MTH 2321 Calculus III	_____ 3 MTH 2311 Linear Algebra
_____ 3 PHY 2350 Modern Physics	_____ 3 MTH 3325 Ordinary Differential Equations
_____ 4 PHY 2455 Foundations of Astronomy	_____ 1 PHY 2190 Intr to Research
	_____ 3 PHY 2360 Math and Computational Physic
Total: 16	Total: 16

J u n i o r Y e a r

Fall	Spring
_____ 3-4 Foreign Language 1401/1412 (see reverse)	_____ 3-4 Foreign Language 1402/2310 (see reverse)
_____ 1 Lifetime Fitness	_____ 3 BIC 3358 Biblical Heritage/Ethics
_____ 3 MTH 3326 Partial Differential Equations	_____ 4 CSI 1430 Intro to Computer Science I w/ Lab
_____ 3 PHY 3320 Intermediate Classical Mechanic	_____ 3 MTH/Science (see below)
_____ 4 PHY 3455 Observational Astronomy	_____ 3 PHY 3350 Topics in Astronomy
	_____ 1 Lifetime Fitness
Total: 14-15	Total: 16-17

S e n i o r Y e a r

Fall	Spring
_____ 3 Foreign Language 2310 (see reverse)	_____ 3 Foreign Language 2320 (see reverse)
_____ 3 PHY 4350 Intro. Stellar Structure	_____ 3 PHY 4351 Intro. Modern Cosmology
_____ 3 PHY 4000 level (3 hours)	_____ 3 PHY 4000 level (3 hours)
_____ 1 PHY 4150 Instructional Observing	_____ 3 MTH/Science (see below)
_____ 0 PHY 4001 Exit Exam	_____ 3 Advanced Elective (Variable depending on h
_____ 1 PHY 4190 Dissemination of Research	
_____ 3 MTH/Science (see below)	
Total: 14	Total: 15

*All students must graduate with a minimum of 124 hours,
36 of which must be at the 3000/4000 level.*

Notes about major requirements:

Note: Any student pursuing a major or secondary major within the Department of Physics (BA or BS, all concentrations) must complete PHY 1420 with a grade of B- or better in order to enroll in PHY 1430. A student who fails to make a B- or better in the course, yet wishes to continue as a major within the Department of Physics must petition to repeat PHY 1420. Any student pursuing a major or secondary major within the Department of Physics (BA or BS, all concentrations) must complete PHY 1430 with a grade of C or better in order to enroll in PHY 2350. A student who fails to make a C or better in the course (where a C- is insufficient) yet wishes to continue in the major within the Department of Physics must petition to repeat PHY 1430.

- MTH/Science requirement - Complete 9 hours from: BIO, CHE, CSI, GEO, MTH or STA. Some of these hours may need to be advanced level courses to fulfill the 3000-4000 level course requirement.
- Prior to taking PHY 4190, students are expected to make substantial progress on a research project. Research typically begins when PHY 2190 is taken in the sophomore year. Students involved in research during their junior year should enroll in PHY 3V95 (Undergraduate Research). In addition, students are strongly encouraged to participate in summer research opportunities.
- Check your degree audit often through Bearweb to ensure that you are making timely progress toward your degree.
- For more information, see the undergraduate catalog.