

## Bachelor of Science in Astronomy (BIC)

*A Suggested Sequence of Required Courses (2010-2011 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	<b>PHY 1420 General Physics I</b>	_____ 4	<b>PHY 1430 General Physics II</b>
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	<b>PHY 2350 Modern Physics</b>	_____ 3	MTH 3325 Ordinary Differential Equations
_____ 4	<b>PHY 2455 Foundations of Astronomy</b>	_____ 3	<b>PHY 2360 Math and Computational Physics</b>
Total: 16		Total: 15	
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	Human Performance	_____ 3	BIC 3358 Biblical Heritage/Ethics
_____ 3	MTH 3326 Partial Differential Equations	_____ 4	CSI 1430 Intro to Computer Science I w/ I
_____ 3	<b>PHY 3320 Intermediate Classical Mechanics</b>	_____ 3	MTH/Science (see below)
_____ 4	<b>PHY 3455 Observational Astronomy</b>	_____ 3	<b>PHY 3350 Topics in Astronomy</b>
_____ 1	Human Performance	_____ 1	Human Performance
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)
_____ 1	<b>PHY 4195 Senior Physics Research I</b>	_____ 1	<b>PHY 4196 Senior Physics Research II</b>
_____ 3	<b>PHY 4350 Intro. Stellar Structure</b>	_____ 3	<b>PHY 4351 Intro. Modern Cosmology</b>
_____ 3	<b>PHY 4000 level (3 hours)</b>	_____ 3	<b>PHY 4000 level (3 hours)</b>
_____ 1	<b>PHY 4150 Instructional Observing</b>	_____ 3	MTH/Science (see below)
_____ 0	<b>PHY 4001 Exit Exam</b>		
_____ 3	MTH/Science (see below)	_____ 3	Advanced Elective (Variable depending on)
Total: 14		Total: 16	

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

### Notes about major requirements:

- 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.
- 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.

Please see reverse side for important information on general requirements.

**Notes about General Requirements:**

- Course selection is subject to availability within each semester.
- Please keep in mind that this is only a suggested sequence. Actual sequence will vary according to possible second major, minor, other program of study (including pre-health), and individual circumstances (ex., transfer credit, dual credit, and credit by exam).
- In order to complete your degree, you must fulfill all requirements in your major and general requirements for the Bachelor of Science.
- To complete a double major, you may not count any courses toward both majors.
- For more specific information on general requirements, see your undergraduate catalog.
- Check your degree audit often through Bearweb to ensure that you are making timely progress toward your degree.

**Foreign Language:**

- **Option A:** One modern language through 2320 level:  
Arabic, Chinese, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish, and Swahili
- **Option B:** One classical language through 2320 level or two classical through 1302 level:  
Latin, Greek, Hebrew (If available, Akkadian, Aramaic, Syriac, and/or Ugaritic may be used)  
\*Chemistry majors must take a modern foreign language; German or Russian are strongly recommended.

**Math & Science:** You must complete a minimum of 34 hours of math and science courses. See the undergraduate catalog for a more detailed explanation.