

Bachelor of Arts in Astrophysics (BIC)

A Suggested Sequence of Required Courses (2014-2015 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: 16		Total: 16	
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	_____ 3	PHY 2360 Math and Computational Physics
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)
_____ 3	MTH 3326 Partial Differential Equations	_____ 3	BIC 3358 Biblical Heritage/Ethics
_____ 3	PHY 3320 Intermediate Classical Mechanics	_____ 3	PHY 3330 Inter. Electricity & Magnetism
_____ 3	PHY 3372 Intro Quantum Mechanics I	_____ 3	PHY 3350 Topics in Astronomy
_____ 4	CSI 1430 Intro to Computer Sci I w/ Lab	_____ 1	Lifetime Fitness
Total: 16-17		Total: 13-14	
S e n i o r Y e a r			
Fall		Spring	
_____ 3	BIC 4374 World Cultures V	_____ 3	BIC 4389 Capstone
_____ 3	Foreign Language 2310 (see reverse)	_____ 3	Foreign Language 2320 (see reverse)
_____ 4	Lab Science - Area 1 (see below)	_____ 3	Elective
_____ 3	PHY 4350 Intro. Stellar Structure	_____ 3	PHY 4351 Intro. Modern Cosmology
_____ 0	PHY 4001 Exit Exam	_____ 3	Elective
_____ 3	Elective	_____ 1	Lifetime Fitness
Total: 16		Total: 16	

*Petition NW I from PHY 1430; Petition NW II from Lab Science options below

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

Notes about major requirements:

- Lab Science options: BIO 1305/1105, 1306/1106; NSC 1306/1106; BIO 1401; GEO 1401, 1402, 1403, 1405, 1406, 1408
- 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.

Bachelor of Arts

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 Arts.
- To complete a double major, you may not count any courses toward both majors.
- For more specific information on general requirements, see the 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)

Math:

- MTH 1301 (Ideas in Math) or MTH 1320* (Pre-cal) or MTH 1321 (Calculus) or STA 1380. *Math 1320 is intended only for students who intend to take 1321.

Lab Science (4 hours in addition to Natural World I and II) Choose one science/lab course from below

*Credit allowed for only one of these courses.

Area 1	Area 2	Area 3
BIO 1305/1105 Modern Concepts of Bio	*CHE 1300/1100 Intro to Chemistry	ANT 1404
BIO 1306/1106 Modern Concepts of Bio II	*CHE 1301/1101 Basic Prin of Mod Chem I	ENV 1301/1101 Exploring Env Issues
BIO 1401 General Biology	CHE 1302/1102/Basic Prin of Mod Chem II	ENV 1303/1103 Wildlife Ecology
BIO 1403 Exploring the Living World	*CHE 1405 Chemistry in Society	Or any other lab science including:
*GEO 1401 Earthquakes & Other Disasters	CHE 1341/1146 Intro to Organic Biochemistry	BIO, CHE, GEO, PHY, and FAS 1407
GEO 1402 World Oceans		
*GEO 1403 Environmental Geology	PHY 1404 Light, Vision, and Optics	
*GEO 1405 The Dynamic Earth	PHY 1405 General Physics for BA Students	
GEO 1406 Earth Through Time	PHY 1407 Sound and Acoustics	
GEO 1408 Earth Science	PHY 1408 Gen Physics-Natural & Behav Sci	
	PHY 1420 General Physics I	
NSC 1306/1106 Intro to Neuroscience	PHY 1455 Descriptive Astronomy	

Biology/Chemistry Prerequisite Policies

Biology- In order to register for BIO 1305 and 1306, students must have either a satisfactory math score on the ACT or SAT OR have completed MTH 1320 (Pre-Calculus) with a grade of B or better.

Chemistry- In order to register for CHE 1301, students must have either a satisfactory math score on the ACT or SAT or have a minimum grade of B in CHE 1300 AND a minimum grade of B in either MTH 1320 (Pre-Calculus) or MTH 1321 (Calculus)