Name:_____ Date:_____

Bachelor of Science in Astrophysics

A Suggested Sequence of Required Courses (2015-2016 Catalog)

Freshman Year

Fall			Spring		
_____	0	Chapel (CHA 1088)	_____	0	Chapel (CHA 1088)
_____	3	REL 1310	_____	3	REL 1350
_____	3-4	Foreign Language 1401/1412 (see reverse)	_____	3-4	Foreign Language 1402/2310 (see reverse)
_____	3	ENG 1302 or FAS 1302	_____	3	CHE (1301 recommended/see reverse)
_____	3	MTH 1321 Calculus I (*if eligible*)	_____	3	MTH 1322 Calculus II
_____	4	**PHY 1420 General Physics I**	_____	4	**PHY 1430 General Physics II**
Total:	16-17		Total:	16-17	

Sophomore Year

Fall			Spring		
_____	3	Foreign Language 2310 (see reverse)	_____	3	Foreign Language 2320 (see reverse)
_____	3	MTH 2311 Linear Algebra	_____	3	ENG 2301 or ENG 2304/2306/GTX
_____	3	MTH 2321 Calculus III	_____	4	CSI 1430 Intro to Computer Science I w/ Lab
_____	3	**PHY 2350 Modern Physics**	_____	3	MTH 3325 Ordinary Differential Equations
_____	4	**PHY 2455 Foundations of Astronomy**	_____	1	**PHY 2190 Introduction to Research**
			_____	3	**PHY 2360 Math and Computational Physics**
Total:	16		Total:	17	

Junior Year

Fall			Spring		
_____	3	ENG 2301 or ENG 2304/2306/GTX	_____	3	ENG 3300 (see below)
_____	3	History/Social Science (see reverse)	_____	3	PSC 2302
_____	1	Lifetime Fitness	_____	1	Lifetime Fitness
_____	3	MTH 3326 Partial Differential Equations	_____	3	**PHY 3350 Topics in Astronomy**
_____	3	**PHY 3320 Intermediate Classical Mechanics**	_____	3	**PHY 3330 Inter. Electricity & Magnetism**
_____	3	**PHY 3372 Intro Quantum Mechanics I**	_____	3	**PHY 3373 Intro Quantum Mechanics II**
Total:	16		Total:	16	

Senior Year

Fall			Spring		
_____	1	**PHY 4190 Dissemination of Research Results**	_____	3	**PHY 4351 Intro. Modern Cosmology**
_____	3	**PHY 4340 Statistical & Thermal Physics**	_____	3	**PHY 4000 level (3 hours)**
_____	3	**PHY 4350 Intro. Stellar Structure**	_____	3	MTH/Science (see below)
_____	0	**PHY 4001 Exit Exam**	_____	3	MTH/Science (see below)
_____	3	MTH/Science (see below)	_____	1	Lifetime Fitness
_____	3	History/Social Science (see reverse)			
_____	1	Lifetime Fitness			
Total:	14		Total:	13	

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 (at *least* 2 courses) may need to be advanced level courses to fulfill the 3000-4000 level course requirement.
- English requirement: It is recommended that science majors take ENG 3300 during their junior year rather than ENG 1304. Students may also take FAS 1118, 1128, and 1138 instead of ENG 1304.
- 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.
- Many required courses are offered only one time each year in either the fall semester or the spring semester.
- 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.

History/Social Science (choose 2 courses from the following areas - 6 hours):

- Anthropology, Economics, History, Honors, Philosophy, Political Science, Psychology, Sociology, GEOG 1300, FAS 1303, 1304 or 1305, or 3 courses from FAS 1115, 1125, 1135.
- Check your major to determine if special courses are needed.

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 or refer to your audit for specific science/math courses that may be required by your major.

Fine Arts: None required for this degree.

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-Calculas) 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).