Name:_____ Date:_____

Bachelor of Science in Applied Mathematics (Numerical Methods Option) (BIC)

A Suggested Sequence of Required Courses (2013-2014 Catalog)

Freshman Year

Fall			Spring		
_____	0	Chapel (CHA 1088)	_____	0	Chapel (CHA 1088)
_____	2	BIC 1212 Examined Life I	_____	4	Lab Science (see below)
_____	3	BIC 1314 World Cultures I	_____	3	BIC 1324 World Cultures II
_____	4	BIC 1413 Rhetoric I	_____	3	BIC 1323 Rhetoric II
_____	3-4	Foreign Language 1401/1412 (see reverse)	_____	3-4	Foreign Language 1402/2310 (see reverse)
_____	3	**MTH 1321** (if eligible) Calculus I	_____	3	**MTH 1322 Calculus II**
Total:	15-16		Total:	16-17	

Sophomore Year

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	Foreign Lang. 2310 (see below/reverse)	_____	3	Foreign Lang. 2320 (see below/reverse)
_____	4	CSI 1430 Intro. To Comp Sci. I w/ Lab	_____	3	**MTH Advanced Elect.** (3325 recommended)
_____	3	**MTH 2321 Calculus III**	_____	3	**MTH 2311 Linear Algebra**
Total:	16		Total:	15	

Junior Year

Fall			Spring		
_____	4	Lab Science (see below)	_____	3	BIC 3358 Biblical Heritage/Ethics
_____	4	CSI 1440 Intro. To Comp. Sci. II w/ Lab	_____	3	Advanced Elective
_____	1	Lifetime Fitness	_____	1	Lifetime Fitness
_____	3	**MTH 3300 Foundations of Mathematics**	_____	3	**MTH 4322 or 4328**
_____	3	**MTH 3324 Numerical Methods**	_____	3	**MTH Advanced Elective**
			_____	3	Elective
Total:	15		Total:	16	

Senior Year

Fall			Spring		
_____	3	**STA 3381 Probability and Statistics**	_____	3	**MTH 4328 or 4322**
_____	3	**MTH Advanced Elective** (4000-level)	_____	3	**MTH Advanced Elective** (3000-4000-lev
_____	3	Advanced Elective	_____	3	Advanced Elective
_____	3	Elective	_____	3	Advanced Elective
_____	3	Elective	_____	3	Elective
Total:	15		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:

− MTH Electives: choose one from the following options based on semester availability: MTH 3312, 3323, 4314, or 4326.

− MTH Advanced Electives: An additional nine semester hours of mathematics courses at the 3000 level or above are required.

− At least nine hours of the MTH electives or MTH Advanced electives must be at the 4000 level.

− Lab science (8 hours): One course and lab from: BIO 1305-1105, BIO 1306-1106, CHE 1301-1101 CHE 1302-1102, GEO 1406. One course and lab from: GEO 1401, GEO 1402, GEO 1403, GEO 1405, GEO 1408, NSC 1306-1106, PHY 1420, PHY 1430.

− A grade of "C" or better must be earned in all 39 hours of math.

− Check your degree audit often through Bearweb to ensure that you are making timely progress toward your degree.

− For more information, see undergraduate catalog.

*Because of the number of electives, there is enough room for a minor with this major.

Please see reverse side for important information on general requirements.

Bachelor of Science

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.

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)