

Bachelor of Science in Applied Mathematics (Differential Equations) (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		_____ 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	
_____ 4 Lab Science (see below)		_____ 3 Elective	
_____ 3 MTH 1321 (if eligible) Calculus I		_____ 3 MTH 1322 Calculus 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	
_____ 3-4 Foreign Language 1401/1412 (see reverse)		_____ 3-4 Foreign Language 1402/2310 (see reverse)	
_____ 3 Elective		_____ 3 MTH 2311 Linear Algebra	
_____ 3 MTH 2321 Calculus III		_____ 3 MTH 3325 Ord. Differential Equations	
Total: 15-16		Total: 15-16	
J u n i o r Y e a r			
Fall		Spring	
_____ 3 Elective		_____ 3 BIC 3358 Biblical Heritage/Ethics	
_____ 4 CSI 1430 Intr to Comp Sci I w/lab		_____ 4 CSI 1440 Intr. to Comp Sci II w/ Lab	
_____ 3 Foreign Lang. 2310 (see below/reverse)		_____ 3 Foreign Lang. 2320 (see below/reverse)	
_____ 3 MTH 3300 Foundations of Mathematics		_____ 3 STA 3381 Probability and Stats.	
_____ 3 MTH 3326 Partial Differential Equation:		_____ 3 MTH Advanced Elective	
Total: 16		Total: 16	
S e n i o r Y e a r			
Fall		Spring	
_____ 3 MTH 4329 Func Complex Variable		_____ 3 MTH Advanced Elective	
_____ 3 MTH Elective (see below)		_____ 3 MTH Advanced Elective	
_____ 1 Lifetime Fitness		_____ 1 Lifetime Fitness	
_____ 3 Advanced Elective		_____ 3 Advanced Elective	
_____ 3 Elective		_____ 3 Elective (variable)	
_____ 3 Elective		_____ 3 Elective	
Total: 16		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 Electives: Choose one of the following options based on semester availability: MTH 3312, 3323, 4314, or 4326.

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

At least nine hours of the MTH electives or MTH Advanced electives must be at the "3000" level or above.

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

– 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 the undergraduate catalog.

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