

## Requirements for the Bachelor of Science Degree in Mathematics

Lower Division Requirements	Upper Division Requirements	Electives (minimum 7 units)
Mathematics 164 <sup>(4)</sup> __	Calculus I	MTH312 <sup>(2)</sup> __ MTH491 <sup>(1-4)</sup> __
Mathematics 174 <sup>(4)</sup> __	Calculus II	MTH334 <sup>(4)</sup> __ MTH492 <sup>(2)</sup> __
Mathematics 232 <sup>(2)</sup> __	Linear Algebra	MTH344 <sup>(4)</sup> __ MTH496 <sup>(2)</sup> __
Mathematics 242 <sup>(2)</sup> __	Number Theory With Proofs	MTH392 <sup>(2)</sup> __ MTH497 <sup>(1)</sup> __
Mathematics 274 <sup>(4)</sup> __	Calculus III	MTH402 <sup>(2)</sup> __ MTH498 <sup>(2)</sup> __
Computer Science 142 <sup>(2)</sup> __	Introduction to Computer Programming	MTH412 <sup>(2)</sup> __ MTH499 <sup>(1)</sup> __
Computer Science 154 <sup>(4)</sup> __	Fundamentals of Computer Science	MTH432 <sup>(2)</sup> __ HON498 <sup>(2)</sup> __
Computer Science 252 <sup>(2)</sup> __	Data Structures with Programming	MTH452 <sup>(2)</sup> __ HON499 <sup>(1)</sup> __
Physics 241 <sup>(4)</sup> __	University Physics I	MTH463 <sup>(3)</sup> __
	Choose <b>one</b> from	MTH471 <sup>(1)</sup> __
	Mathematics 312 <sup>(2)</sup> __	
	Mathematics 412 <sup>(3)</sup> __	
	Choose <b>one</b> from	
	Mathematics 334 <sup>(4)</sup> __	
	Mathematics 344 <sup>(4)</sup> __	
	Choose <b>one</b> from	
	Mathematics 432 <sup>(2)</sup> __	
	Mathematics 452 <sup>(2)</sup> __	
	Choose <b>one</b> group from	
	Mathematics 496 <sup>(2)</sup> and 497 <sup>(1)</sup>	
	Mathematics 498 <sup>(2)</sup> and 499 <sup>(1)</sup>	
	Honors 498 <sup>(2)</sup> and 499 <sup>(1)</sup>	

I. Responding to the Sacred		
Biblical Foundations	Bible 101 <sup>(2)</sup> __	and Bible 102 <sup>(3)</sup> __
The Christian Tradition	Church History 395 <sup>(3)</sup> __	or Theology 306 <sup>(3)</sup> __
	Church History 484 <sup>(3)</sup> and 485 <sup>(3)</sup> __	
II. Developing Cognitive Abilities		
Personal Development	Psychology 101 <sup>(4)</sup> (FF) __	or Psychology 103 <sup>(3)</sup> __
Critical Thinking and Communication	Writing 110 <sup>(3)</sup> __	and Communication 100 <sup>(3)</sup> __
	or Writing 120 <sup>(3)</sup> __	
Basic Competence	Writing Sample __	Writing 099 __
Problem Solving	Mathematics 303 <sup>(3)</sup> __	or Mathematics 144 <sup>(4)</sup> __
		Mathematics 164 <sup>(4)</sup> __
Basic Competence	Placement Test __	Math 099 __
	SAT 35th %ile __	ACT 35th %ile __
III. Exploring an Interdependent World		
The Natural World	Biological Science <sup>(4)</sup> __	and Physical Science <sup>(4-5)</sup> __
	One with lab __	
Physical Fitness and Nutrition	PED (One of Physical Education 102-184)	
	Take one of the following: Family & Consumer Sci. 315 <sup>(3)</sup> __	
	Physical Education 100 <sup>(1)</sup> __	Physical Education 300 <sup>(2)</sup> __
The Social World	Take one of the following:	
	Economics 101 <sup>(3)</sup> __	Sociology 101 <sup>(3)</sup> __
	Economics 102 <sup>(3)</sup> __	Sociology 201 <sup>(3)</sup> __
		Political Science 101 <sup>(3)</sup> __
		Political Science 190 <sup>(4)</sup> __

IV. Seeking Cultural Perspectives		
The History of World Civilizations	History 110 <sup>(3)</sup> __	and History 111 <sup>(3)</sup> __
The Fine Arts	Music History 100 <sup>(2)</sup> __	Art 100 <sup>(2)</sup> __
Take <b>two</b> of the following areas: (MUH, ART, TRE)	Music History 101 <sup>(2)</sup> __	Art 102 <sup>(3)</sup> __
	Theater 101 <sup>(2)</sup> __	Art 200 <sup>(3)</sup> __
		Art 201 <sup>(3)</sup> __
Philosophy	Philosophy 201 <sup>(3)</sup> __	or Philosophy 211 <sup>(3)</sup> __
Literature Masterpieces:	Take two courses, at least one from masterpieces.	
	Literature 201 <sup>(3)</sup> __	Literature 203 <sup>(3)</sup> __
	Literature 202 <sup>(3)</sup> __	
Great Works:	Literature 205 <sup>(2)</sup> __	Literature 208 <sup>(2)</sup> __
	Literature 206 <sup>(2)</sup> __	Literature 325 <sup>(3)</sup> __
	Literature 207 <sup>(2)</sup> __	
Foreign Language	Take one of the following sequences:	
	Spanish 101 <sup>(4)</sup> __	and Spanish 102 <sup>(4)</sup> __
	German 101 <sup>(4)</sup> __	and German 102 <sup>(4)</sup> __
	French 101 <sup>(4)</sup> __	and French 102 <sup>(4)</sup> __
	Biblical Lang. 205 <sup>(4)</sup> __	and Biblical Lang. 206 <sup>(4)</sup> __
	or	
	Biblical Lang. 207 <sup>(3)</sup> __	and Biblical Lang. 208 <sup>(3)</sup> __
		and Biblical Lang. 337 <sup>(3)</sup> __

