

**Sample Program of Study  
Mathematics Major – Statistics option (BS)  
(with minor using 21 credits<sup>1</sup>)**

<b>First Year</b>			
<b>First Semester</b>		<b>Second Semester</b>	
Math 181 (Calculus I)	4 credits	Math 182 (Calculus II)	4 credits
English 101	3 credits	English 102	3 credits
Natural Science core	3 credits	Natural Science core	3 credits
Computer Science 135	3 credits	Computer Science 202	3 credits
Minor course	3 credits	Minor course	3 credits
...			
<b>Second Year</b>			
<b>First Semester</b>		<b>Second Semester</b>	
Math 283 (Calculus III)	4 credits	Math 285 (Differential Equations)	3 credits
Minor course	3 credits	Minor course	3 credits
CH 201	3 credits	CH 202	3 credits
Social Science core	3 credits	CH 203	3 credits
Diversity core	3 credits	Fine Arts core	3 credits
...			
<b>Third Year</b>			
<b>First Semester</b>		<b>Second Semester</b>	
Math 310 (Introduction to Analysis I) <sup>2</sup>	3 credits	Math 311 (Introduction to Analysis II)	3 credits
Math 330 (Linear Algebra)	3 credits	Stat 467 (Statistical Theory)	3 credits
Math/Stat 461 (Probability Theory)	3 credits	Math Elective <sup>3</sup>	3 credits
Minor course	3 credits	Minor course	3 credits
Elective	3 credits	Elective	3 credits
...			
<b>Fourth Year</b>			
<b>First Semester</b>		<b>Second Semester</b>	
Math 466 (Numerical Methods I)	3 credits	Math 420 (Math Modeling – capstone)	3 credits
Stat 452 (Statistics I)	3 credits	Math Elective <sup>3</sup>	3 credits
General capstone course	3 credits	Math Elective <sup>3</sup>	3 credits
Minor course	3 credits	Minor course	3 credits

Electives

6 credits Electives

5 credits

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Total

128 credits

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**Notes:**

1. We assume a minor using 21 credits (7 three-credit courses, e.g. Art, Accounting, or History). If a student's minor requires less, electives may be substitute for the difference.
2. Some students might find it advantageous to take MATH 373 before taking MATH 310.
3. This elective must be a course numbered 300 or above, which is related to statistics. Some courses from outside the MATH/STAT Department may count. For a list of such courses, please consult an advisor from the Math/Stat department.