## **Mathematics (BS)**

The following course sequence sheet is for illustrative purposes only and should not be construed as formal academic advisement. Course selections and sequence may vary depending on course availability and counsel from your academic adviser. You should consult an academic adviser before developing an actual academic plan.

Cr.	First Semester	Cr.	<b>Second Semester</b>
4	MATH.125 Calculus I	4	MATH.126 Calculus II
4	COMPSCI.121 Object-Orient Prog w/Java	4	COMPSCI.122 Grap User Interfaces in Java
3	ENGLISH.101 Found of College Writing	3	General Education Course
3	General Education Course	3	General Education Course
1	INTSTUDY.100 (Opt) University Seminar	3	General Education Course
15	Total Semester Credits	17	Total Semester Credits
Cr.	Third Semester	Cr.	Fourth Semester
3	MATH.185 Discrete Mathematics	3	MATH.241 Probability & Statistics
4	MATH.225 Calculus III	3	General Education Course
3	General Education Course	4	PHYSICS.212 General Physics II
4	General Education Course	3	Mathematics Elective
		3	General Education Course
13	Total Semester Credits	16	Total Semester Credits
Cr.	Fifth Semester	Cr.	Sixth Semester
<b>Cr.</b> 3	Fifth Semester  MATH.314 Linear Algebra	<b>Cr.</b> 3	Sixth Semester  MATH.405 Introduction to Abstract Algebra
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3	MATH.314 Linear Algebra	3	MATH.405 Introduction to Abstract Algebra
3	MATH.314 Linear Algebra General Education Course	3	MATH.405 Introduction to Abstract Algebra MATH.421 Real Analysis
3 3 3	MATH.314 Linear Algebra General Education Course Mathematics Elective	3 3 3	MATH.405 Introduction to Abstract Algebra MATH.421 Real Analysis Mathematics Elective
3 3 3 3	MATH.314 Linear Algebra General Education Course Mathematics Elective Mathematics Elective	3 3 3 3 3	MATH.405 Introduction to Abstract Algebra MATH.421 Real Analysis Mathematics Elective Mathematics Elective
3 3 3 3 3	MATH.314 Linear Algebra General Education Course Mathematics Elective Mathematics Elective General Education Course	3 3 3 3 3	MATH.405 Introduction to Abstract Algebra MATH.421 Real Analysis Mathematics Elective Mathematics Elective General Education Course
3 3 3 3 15	MATH.314 Linear Algebra General Education Course Mathematics Elective Mathematics Elective General Education Course Total Semester Credits	3 3 3 3 15	MATH.405 Introduction to Abstract Algebra MATH.421 Real Analysis Mathematics Elective Mathematics Elective General Education Course Total Semester Credits
3 3 3 3 15 Cr.	MATH.314 Linear Algebra General Education Course Mathematics Elective Mathematics Elective General Education Course Total Semester Credits  Seventh Semester	3 3 3 3 15 Cr.	MATH.405 Introduction to Abstract Algebra MATH.421 Real Analysis Mathematics Elective Mathematics Elective General Education Course Total Semester Credits  Eighth Semester
3 3 3 3 15 Cr. 3	MATH.314 Linear Algebra General Education Course Mathematics Elective Mathematics Elective General Education Course Total Semester Credits  Seventh Semester MATH.410 Mathematical Modeling	3 3 3 3 15 <b>Cr.</b>	MATH.405 Introduction to Abstract Algebra MATH.421 Real Analysis Mathematics Elective Mathematics Elective General Education Course Total Semester Credits  Eighth Semester General Education Course
3 3 3 3 15 Cr. 3 3	MATH.314 Linear Algebra General Education Course Mathematics Elective Mathematics Elective General Education Course Total Semester Credits  Seventh Semester MATH.410 Mathematical Modeling Mathematics Elective	3 3 3 3 15 Cr. 3 3	MATH.405 Introduction to Abstract Algebra MATH.421 Real Analysis Mathematics Elective Mathematics Elective General Education Course Total Semester Credits  Eighth Semester General Education Course General Education Course General Education Course
3 3 3 3 15 Cr. 3 3 3	MATH.314 Linear Algebra General Education Course Mathematics Elective Mathematics Elective General Education Course Total Semester Credits  Seventh Semester MATH.410 Mathematical Modeling Mathematics Elective General Education Course	3 3 3 3 15 Cr. 3 3 3	MATH.405 Introduction to Abstract Algebra MATH.421 Real Analysis Mathematics Elective Mathematics Elective General Education Course Total Semester Credits  Eighth Semester General Education Course General Education Course General Education Course General Education Course

TOTAL CREDITS: 120