

As of February 22, 20223

**2023-2024 Degree Map: B.S. Mathematics – Actuarial Science**  
**School of Natural Sciences & Mathematics | Stockton University**  
**USC1 – 240 | (609) 652-4546**

This is a suggested plan of study for completion of this degree program. The **goal** of a Degree Map is to ensure that students graduate with no greater than 128 credits and in four years.

- All students should speak with their preceptor about their academic programs. Students are advised to reference their Degree Works for information about their program’s At-Some-Distance and Cognate courses.
- Transfer students may not need to take all courses in the plan; they should consult with an academic advisor.

<b>FIRST YEAR – FALL SEMESTER</b>	
MATH 2215 Calculus I <b>Attribute:</b> Q1	<b>5 credits</b>
PHYS 2220/25 Physics I w/lab <b>Attribute:</b> Q1	<b>6 credits</b>
FRST or G-course <b>Attribute:</b> First Year Seminar <b>Optional Attributes:</b> W, A, H, I, R, and/or V	<b>4 credits</b>
<b>Subject:</b> ASD or G-course (Optional) <b>Attribute:</b> W1 <b>Optional Attributes:</b> A, H, V, I, R	<b>4 credits</b>
<b>Total Course Load as of First Year Fall Semester</b>	<b>19 credits</b>

<b>FIRST YEAR – SPRING SEMESTER</b>	
MATH 2216 CALCULUS II <b>Attribute:</b> Q1	<b>5 credits</b>
PHYS 2230/35 Physics II w/lab <b>Attribute:</b> Q1	<b>6 credits</b>
ECON 1200 Introduction to Microeconomics* <b>Attribute:</b> Q2	<b>4 credits</b>
<b>Subject:</b> ASD or G-courses (Optional) <b>Optional Attributes:</b> W1/W2 or A, H, V, I, R	<b>4 credits</b>
<b>First Year Credit Total Overall</b>	<b>38 credits</b>

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<b>SECOND YEAR – FALL SEMESTER</b>	
MATH 2217 Calculus III <b>Attribute:</b> Q1	<b>5 credits</b>
MATH 3325 Foundations of Math <b>Attribute:</b> Q1	<b>4 credits</b>
ECON 1400 Introduction to Microeconomics* <b>Attribute:</b> Q2	<b>4 credits</b>
CSCI 2101 Programming and Problem Solving <b>Attribute:</b> Q2	<b>4 credits</b>
MATH 4600 Mathematics Seminar	<b>1 credit</b>
<b>Total Course Load as of Second Year Fall Semester</b>	<b>56 credits</b>

<b>SECOND YEAR – SPRING SEMESTER</b>	
MATH 3323 Linear Algebra <b>Attribute:</b> Q1	<b>4 credits</b>
MATH 3328 Differential Equations <b>Attribute:</b> Q1	<b>4 credits</b>
CSCI 2102 Programming I and Problem Solving II <b>Attribute:</b> Q2	<b>4 credits</b>
G-course <b>Optional Attributes:</b> W1/W2, A, H, V, I, R	<b>4 credits</b>
<b>Second Year Credit Total Overall</b>	<b>86 credits</b>

<b>THIRD YEAR – FALL SEMESTER</b>	
MATH 4451 Probability and Statistics I <b>Attribute:</b> Q1	<b>4 credits</b>
MATH 4461 Numerical Analysis <b>Attribute:</b> Q1	<b>4 credits</b>
GIS-Course <b>Optional Attributes:</b> W1/W2, A, H, I, V, R	<b>4 credits</b>
ASD ACCT 2110 Financial Accounting*	<b>4 credits</b>
<b>Total Course Load as of Third Year Fall Semester</b>	<b>96 credits</b>

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<b>THIRD YEAR – SPRING SEMESTER</b>	
MATH 4452 Probability and Statistics II* <b>Attribute: Q1</b>	<b>4 credits</b>
MATH 4432 Complex Analysis <b>Attribute: Q1</b>	<b>4 credits</b>
GNM 3149 Mathematics of Finances <b>Attribute: Q1</b>	<b>4 credits</b>
ASD-ACCT 2120 Managerial Accounting <b>Attribute: Q2</b>	<b>4 credits</b>
<b>Third Year Credit Total Overall</b>	<b>116 credits</b>

<b>FOURTH YEAR – FALL SEMESTER</b>	
ASD-FINA 3110 Intro to Financial Management <b>Attribute: Q2</b>	<b>4 credits</b>
Program/cognate course: Discuss with Preceptor	<b>4 credits</b>
G-course <b>Optional Attributes: W1/W2, A, H, I, V, R</b>	<b>4 credits</b>
G-course <b>Optional Attributes: W1/W2, A, H, I, V, R</b>	<b>4 credits</b>
<b>Total Course Load as of Fourth Year Fall Semester</b>	<b>136 credits</b>

<b>FOURTH YEAR – SPRING SEMESTER</b>	
ASD-FINA 3120 Intro to Financial Management II <b>Attribute: Q2</b>	<b>4 credits</b>
Subject: G-course <b>Optional Attributes: W1/W2, A, H, I, V, R</b>	<b>4 credits</b>
Subject: G-course <b>Optional Attributes: W1/W2, A, H, I, V, R</b>	<b>4 credits</b>
Subject: G-course <b>Optional Attributes: W1/W2, A, H, I, V, R</b>	<b>4 credits</b>
<b>Fourth Year Credit Total Overall</b>	<b>156 credits</b>

**Program Specific Notes**

- Students must earn a “C” or higher in core courses shaded above.
- At least an overall 2.0 GPA in MATH-acronym courses is required. For the purposes of this Program requirement, if a MATH-acronym course is taken more than once, only the highest grade earned will be used. An overall GPA of 2.0 is required for all NAMS courses.
- \*Courses that have been approved by the [Society of Actuaries \(SOA\)](#) and the [Casualty Actuarial Society \(CAS\)](#) to meet the Validation by Education Experience (VEE)

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requirements with grade B- or better.

- Transfer students should note that transfer credits for non-calculus-based statistics courses, although accepted by the University, will not count as Program/Cognate credits toward a Mathematics degree.
- Graduating seniors are required to complete a content-based field test in the last semester. Graduation is not dependent on the test score.
- There are more sections of PHYS 2220/25 Physics I w/lab (**Attribute:** Q1) offered in the Fall semester than Spring. More sections of PHYS 2230/35 Physics II w/lab are offered in Spring semester than the Fall.
- Most of the following courses are offered once a year:
  - **Fall semester only:** MATH 4441 Abstract Algebra (**Attribute:** Q1), MATH 4445 Topics in Geometry (**Attribute:** Q1), MATH 4451 Probability and Statistics I (**Attribute:** Q1), and MATH 4461 Numerical Analysis (**Attribute:** Q1).
  - **Spring semester only:** MATH 4431 Real Analysis, MATH 4432 Complex Analysis (**Attribute:** Q1), and MATH 4452 Probability and Statistics II (**Attribute:** Q1).
  - **Offered in the Spring semester on as needed basis:** MATH 4471 Computer Algorithms (**Attribute:** Q1), MATH 4472 Theory of Computation (**Attribute:** Q1), and MATH 4481 Topics in Mathematics (**Attribute:** Q1), are Depending on the course content, MATH 4481 may belong to Group I or II. Please check with the instructor before you enroll in the course regarding the Group designation.
- Consult with preceptor before taking statistics courses that do not have MATH acronym. Non-calculus-based statistics courses will not count as Program/Cognate courses toward a Mathematics degree.