As of February 22, 2023

2023-2024 Degree Map: B.S. Mathematics General
School of Natural Sciences and 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.

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

FIRST YEAR – SPRING SEMESTER	
FRST or G-course **Optional Attributes:** W, A, H, I, R, and/or V	**4 credits**
ASD (Optional) **Optional Attributes:** W, A, H, I, R, and/or V	**4 credits**
MATH 2216 Calculus II **Attribute:** Q1	**5 credits**
PHYS 2230/35 Physics II w/lab **Attribute:** Q1	**6 credits**
First Year Credit Total Overall	**38 credits**

SECOND YEAR – FALL SEMESTER	
G-course **Optional Attributes:** W, A, H, I, R, and/or V	**4 credits**
ASD **Optional Attributes:** W, A, H, I, R, and/or V	**4 credits**
MATH 2217 Calculus III **Attribute:** Q1	**4 credits**

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MATH 3325 Foundations of Math **Attribute:** Q1	**4 credits**
MATH 4600 Mathematics Seminar	**1 credit**
Total Course Load as of Second Year Fall Semester	**59 credits**

SECOND YEAR – SPRING SEMESTER	
G-course **Optional Attributes:** W, A, H, I, R, and/or V	**4 credits**
CSCI 2101 Programming and Problem Solving **Attribute:** Q1	**4 credits**
MATH 3323 Linear Algebra **Attribute:** Q1	**4 credits**
MATH 3328 Differential Equations **Attribute:** Q1	**4 credits**
MATH 4600 Mathematics Seminar	**1 credit**
Second Year Credit Total Overall	**76 credits**

THIRD YEAR – FALL SEMESTER	
MATH 4XXX-group I[1]	**4 credits**
MATH 4XXX-group I or II [1, 2]	**4 credits**
Subject: G-course **Attribute:** A, H, I, R, and/or V	**4 credits**
Subject: ASD or G-course **Attribute:** A, H, I, R, and/or V	**4 credits**
Total Course Load as of Third Year Fall Semester	**92 credits**

THIRD YEAR – SPRING SEMESTER	
Subject: G-course **Attribute:** Q2 (preferred)	**4 credits**
Program/Cognate course (consult with preceptor or program chair)	**4 credits**
MATH 4XXX-group II[2]	**4 credits**
MATH 4XXX-group I or II[1, 2]	**4 credits**
Third Year Credit Total Overall	**108 credits**

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FOURTH YEAR – FALL SEMESTER	
Program/cognate course (consult with preceptor or program chair)	**4 credits**
Program/cognate course (consult with preceptor or program chair)	**4 credits**
[Optional: if not taken at the first year] G-course **Optional Attributes:** W, A, H, I, R, and /or V	**4 credits**
Subject: ASD or G-course **Attribute:** A, H, I, R, and/or V	**4 credits**
Total Course Load as of Fourth Year Fall Semester	**112 credits**

FOURTH YEAR – SPRING SEMESTER	
Program/cognate course (consult with preceptor or program chair)	**4 credits**
Program/cognate course (consult with preceptor or program chair)	**4 credits**
[Optional: if not taken at the first year] G-course **Optional Attributes:** W, A, H, I, R, and /or V	**4 credits**
Subject: G-course **Attribute:** W1/W2	**4 credits**
Fourth Year Credit Total Overall	**128 credits**

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.
- 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 Probably 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.

- [1]**Group I** (**Attribute:** Q1): MATH 4431 Real Analysis; MATH 4432 Complex Analysis; MATH 4441 Abstract Algebra; MATH 4445 Topics in Geometry; MATH 4481 Topics in Mathematics.
- [2]**Group II** (**Attribute:** Q1)**:** MATH 4451 Probability & Statistics I; MATH 4452 Probability & Statistics II; MATH 4461 Numerical Analysis; MATH 4471 Computer Algorithms; MATH 4472 Theory of Computation; MATH 4481 Topics in Math; MATH 4491 Partial Differential Equations.
- 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.