

# Major Planning Worksheet

## Applied Mathematics (44-46 hours)

### Bachelor of Science

2024-2025 Catalog

Name: \_\_\_\_\_ ID Number: \_\_\_\_\_

Planned Degree Completion Date: Mo. \_\_\_\_\_ Yr. \_\_\_\_\_

<b>Required Courses</b>		<b>Hours</b>
	CPTR 105      Computer Programming	3.0
	OR	
	CPTR 111      Foundations of Computer Science I	4.0
	DATA 210      Statistical Analysis	4.0
	MATH 121      Calculus I	4.0
	MATH 122      Calculus II	4.0
	MATH 130      Discrete Mathematics	4.0
	MATH 233      Scientific Computing	3.0
	MATH 245      Ordinary Differential Equations	3.0
	MATH 251      Linear Algebra I	4.0
	MATH 315      Probability and Simulation	3.0
	MATH 330      Operations Research Models	3.0
	MATH 475      Internship in Mathematics	
	OR	3.0
	MATH 499      Senior Project	

**Six hours of approved electives selected from:**

	CHEM 341      Physical Chemistry I	3.0
	CPTR 310      Algorithms & Data Structures	3.0
	CPTR 430      Machine Learning	3.0
	DATA 242      Data Analytics	3.0
	MATH 231      Multivariable Calculus	4.0
	MATH 340      Linear Algebra II	3.0
	MATH 380/480      Special Problems	1.0-4.0
	MATH 385/485      Seminar	1.0-4.0

Notes: