Major Planning Worksheet
Applied Mathematics: Secondary Education (89.5 - 92.5 hours)
Bachelor of Science
2024-2025 Catalog

Name: _____ ID Number: _____

Planned Degree Completion Date: Mo._____ Yr._____

Required Courses   **Hours**

	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

Six hours of approved electives selected from:

	CPTR 310	Algorithms and 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
	MATH 440	Secondary Methods	3.0

Professional Education Requirements

	EDUC 111	Exploring Educational Systems	3.0
	EDUC 112	The Exceptional Learner	3.0
	EDUC 202	Professional Learning Communities I	0.5
	EDUC 204	Professional Learning Communities II	0.5
	EDUC 207	Integrating Tech into the Classroom	3.0
	EDUC 223	Child & Adolescent Development	3.0
	EDUC 230	Educational Psychology	3.0
	EDUC 246	Educational Assessment	3.0
	EDUC 302	Professional Communities III	0.5
	EDUC 304	Professional Communities IV	0.5
	EDUC 343	Disciplinary Literacy	3.0
	EDUC 402	Professional Learning Communities V	0.5
	EDUC 430	Culturally Responsive Classroom Communities	3.0
	EDUC 440	General Methods for Adolescent Teachers	3.0
	EDUC 475	High School Student Teaching	7.0
	EDUC 477	Jr. High/Middle School Student Teaching	6.0
	ENG/MODL 350	Teaching English to Speakers of Other Languages	3.0
	INTD 355	Critical Issues in Education	3.0

Notes: