

Major Planning Worksheet

Software Engineering (49-51 hours)

Bachelor of Science

2024-2025 Catalog

Name: _____

ID Number: _____

Planned Degree Completion Date: Mo. _____ Yr. _____

Required Courses		Hours
CPTR 111	Foundations of Computer Science I	4.0
CPTR 113	Foundations of Computer Science II	3.0
CPTR 231	Object-Oriented Programming	3.0
CPTR 310	Algorithms and Data Structures	3.0
CPTR 340	Software Engineering Methodologies	3.0
CPTR 342	Software Quality	3.0
CPTR 420	Software Requirements Engineering	3.0
CPTR 422	Software Architecture and Design	3.0
CPTR 475	Internship in Software Engineering	
OR		3.0
CPTR 499	Senior Project	
DATA 231	Database Programming and Design	4.0
IDIV 205	Technical Writing	3.0
MATH 125	Mathematical Modeling	4.0
MATH 130	Discrete Mathematics	4.0

Six or more hours of approved electives selected from:

CPTR 308	Computer Architecture	3.0
CPTR 410	Topics in Computer Science	4.0
CPTR 424	Cloud Programming	4.0
CPTR 430	Machine Learning	3.0
MATH 315	Probability and Simulation	3.0

Notes: