

Major Planning Worksheet

Software Engineering (49-51 hours)

Bachelor of Science

2022-2023 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 (W)	3.0
OR	3.0
CPTR 499 Senior Project (W)	3.0
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

*Courses satisfy the Bachelor of Science Degree requirement

Notes: