Bachelor of Science in **Computer Science** for Students Who Began Fall 2021 and Later



COMPUTER SCIENCE ELECTIVE OPTIONS:

Below is a sample list of electives. This list is not exhaustive and courses are subject to change. Students seeking a specialty may consider taking electives in an area of study. A few suggested areas of concentration follow:

CNT 4104

COP 4655 COP 4703

Internet Technology
Introduction to Data Communications
Mobile App Projects
Applied Database Systems

Applied Database Systems

Software Engineering

Software Engineering Project CEN 4910
Python Programming COP 4045
Object-Oriented Design and Programming COP 4331

Cybersecurity

Cyber Physical System Security CIS 4213
Foundations of Cybersecurity CNT 4403
Network and Data Security CNT 4411

Data Science

Introduction to Deep Leaning CAP 4613
Introduction to Artificial Learning CAP 4630
Intro to Data Mining and Machine Learning CAP 4770
Introduction to Data Science and Analytics CAP 4773

Computer Architecture

Structured Computer Architecture CDA 4102 Introduction to VLSI CDA 4210

Additional Options

Topics in Computer Science COT 4930
Directed Independent Study COT 4900
Internship IDS 3949

*For approval of additional elective options, please contact your academic advisor

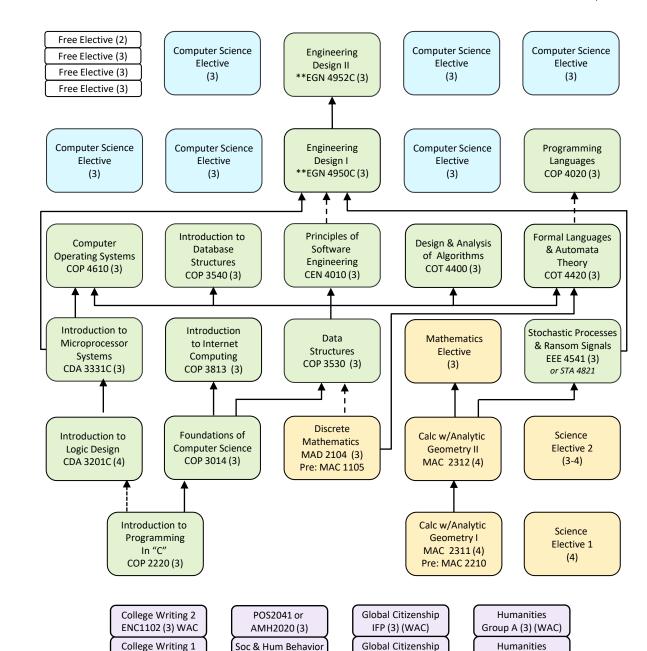
MATH ELECTIVE OPTIONS:

Calculus w/Analytic Geometry III (4 credits) MAC 2313
Numerical Methods MAD 3400
Differential Equations I MAP 2302
Matrix Theory MAS 2103
Engineering Math I MAP 3305
Modern Algebra MAS 4301

SCIENCE ELECTIVE OPTIONS:

Biological Principles BSC 1010 **Biological Principles Lab** BSC 1010L General Chemistry 1 CHM 2045 General Chemistry 1 Lab CHM 2045L General Physics for Engineers 1 PHY 2048 General Physics Lab 1 PHY 2048L Physics for Engineers 2 PHY 2044 General Physics Lab 2 PHY 2049L Physical Geology/Evolution of the Earth **GLY 2010C**

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IFP (3)

LEGEND: Grade of "C" or better REQUIRED in all green, blue, orange, and WAC courses

Pre-Requisite Pre- or Co-requisite

Science & Math

Core Courses

Elective Courses

IFP Requirements

ENC1101 (3) WAC

IFP (3)

IFP (3)