# Bachelor of Science in Computer Science 

FAU for Students Who Began Fall 2021 and Later

COLLEGE OF ENGINEERING
$\&$ COMPUTER SCIENCE
engineering-advising@fau.edu • 561.297.2780 • dessa.fau.edu • ceecs.fau.edu

## COMPUTER SCIENCE ELECTIVE OPTIONS:

Florida Atlantic University
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:

Internet Technology
Introduction to Data Communications
CNT 410
Mobile App Projects
Applied Database Systems
Software Engineering
Software Engineering Project
Python Programming
Object-Oriented Design and Programming 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 <br> 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 231

| Numerical Methods | MAD 340 |
| :--- | :--- |
| Differential Equations I | MAP 230 |
| Matrix Theory | MAS 2103 |

Matrix Theory
MAP 3305

| 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 |


| College Writing 2 <br> ENC1102 (3) WAC |
| :---: |
| College Writing 1 <br> ENC1101 (3) WAC |
| POS2041 or <br> AMH2O20 (3) |
| Soc \& Hum Behavior <br> IFP (3) |



LEGEND: Grade of "C" or better REQUIRED in all green, blue, orange, and WAC courses Pre- or Co-requisite Science \& Math Core Courses Elective Courses IFP Requirements is flowchart is reviewed periodically and is subject to change as new requirements become necessary to educate engineers. The information is intended to inform and is not a replacement for a degree audit conducted with an academic advisor

