# COMPUTER SCIENCE, BACHELOR OF SCIENCE WITH A CONCENTRATION IN COMPUTER TECHNOLOGY (B.S.) 

## Program Objectives

The mission of the Bachelor of Science in Computer Science program is to provide students with an education that will prepare them to develop a career in the fields of computer science or computer forensics.

## Program Requirements

CIP Code: 11.0101
$\begin{array}{ll}\text { Summary Checklist for General Education } \\ \text { Tode } & \text { Title }\end{array}$

## Element 1

A: Written Communication (http://catalogs.eku.edu/undergraduate/ 3 general-academic-information/general-education-requirements/ element-1/)
B: Written Communication (http://catalogs.eku.edu/undergraduate/ general-academic-information/general-education-requirements/ element-1/)
C: Oral Communication (http://catalogs.eku.edu/undergraduate/ general-academic-information/general-education-requirements/ element-1/)

## Element 2

Quantitative Reasoning (http://catalogs.eku.edu/undergraduate/ general-academic-information/general-education-requirements/ element-2/)

## Element 3

A: Arts (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/)
B: Humanities (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/)

## Element 4

Natural Sciences (http://catalogs.eku.edu/undergraduate/general-
academic-information/general-education-requirements/element-4/)

## Element 5

A: Historical Science (http://catalogs.eku.edu/undergraduate/
general-academic-information/general-education-requirements/ element-5/)
B: Social Behavioral Science (http://catalogs.eku.edu/ undergraduate/general-academic-information/general-education-requirements/element-5/)

## Element 6

Diversity of Perspectives Experiences (http://catalogs.eku.edu/ undergraduate/general-academic-information/general-education-requirements/element-6/)

## Total Hours

36

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code Title Hours
University Graduation Requirements
General Education

## Student Success Seminar

| SCO 1001 | Student Success Seminar in Computer Science <br> (waived for transfers with $30+$ hrs.) | 1 |
| :--- | :--- | :--- |

Upper division courses ( 42 hrs. distributed throughout Major/ Supporting/Gen Ed/Free Electives categories)

## Major Requirements

Core Courses
CSC 185 Discrete Structures $I^{1} 3$

CSC 190 Object- Oriented Programming I ${ }^{1} 3$
CSC 191 Object-Oriented Programming II 3
CSC 195 Discrete Structures II 3
CSC 308 Mobile App Development for Apple iOS 3
CSC 310 Data Structures 3
CSC 313 Database Systems 3
CSC 338 Fundamentals of Cybersecurity 3
CSC 340 Ethics \& Software Engineering 3
CSC $499 \quad$ CS Career Preparation 1
Concentrations
Students must select one of the following Concentrations:
Computer Science (General)
Computer Technology
Interactive Multimedia
Artificial Intelligence in Data Science

## Free Electives

Choose from 9-10 hours of free electives 9-10
Total Hours 120
1
Students without a 25 ACT or 590 SAT will be advised to take CSC 170 Intro to Game Programming as preparation for CSC 185 Discrete Structures I and CSC 190 Object- Oriented Programming I.

## Concentration

Code Title Hours
Concentration Courses
CSC 360 Computer Org \& Architecture 3
CSC 440 Applied Software Engineering 3
CSC 460 Computer Network \& System Administration 3
CSC 545 Theory of Database Systems 3
CSC 349 Applied Learning in Computer Science ${ }^{1} 3$
CSC $330 \quad 3$
or CSC 544 Database Admin and Security
Choose from one three credit CSC course at 300-level or above ${ }^{2} \quad 3$
Choose from one hour of the following: 1

| CSC 494 | Innovative Problem Solving |
| :--- | :--- |
| CSC 495 | Independent Work |
| CSC 496 | Senior Seminar |



