12 credits in the major and 9 credits in the minor must be completed at Alvernia University When pursuing a double major, you must have 12 distinct credits between the two majors.

| Semester 1 | Credits | Semester 2 | Credits |
| :---: | :---: | :---: | :---: |
| Diversity graduation requirement cannot be fulfilled through major courses; students should fulfill this with a Gen Ed SEARCH class |  |  |  |
| Writing Enhanced graduation requirement cannot be fulfilled through major courses; students should fulfill this <br> with a Gen Ed SEARCH class |  |  |  |
| SRH 101: Search Sem-Enduring Questions or | 3 | CS 155: Object-Oriented Programming | 3 |
| HNR 160: Honor Search-Enduring Questions |  | THE 105 or PHI 105 | 3 |
| THE 105 or PHI 105 | 3 | Gen Ed | 3 |
| CS 115: Intro to Programming | 3 | Gen Ed | 3 |
| CS 120: Intro to IT | 3 | MAT 230: Calculus I | 4 |
| MAT 131 Pre-calculus or Gen Ed if MAT 131 is not needed. | 3 |  |  |
| TOTAL <br> Complete 5 hours of Community Service | 15 | TOTAL <br> Complete 5 hours of Community Service | 16 |
| Semester 3 | Credits | Semester 4 | Credits |
| CS 210: Computer Organization \& Assembly | 3 | CS 220: Data Structures and Algorithms | 3 |
| Language |  | CYB/DS 210 | 3 |
| MAT 250: Discrete Mathematics | 3 | MAT 231: Calculus II | 4 |
| CYB/DS 110 | 3 | Gen Ed or | 3 |
| Gen Ed | 3 | Gen Ed (Foreign Language suggested) | $\underline{3}$ |
| Gen Ed (Foreign Language suggested) | $\underline{3}$ |  |  |
| TOTAL | 15 | TOTAL | 16 |
| Complete 5 hours of Community Servi |  | Complete 5 hours of Community Service |  |
| Semester 5 | Credits | Semester 6 | Credits |
| CYB/DS 310 | 3 | CS 320: Algorithm Design \& Analysis | 3 |
| CS 310: Operating Systems | 3 | CS Elective | 3 |
| MAT 209: Probability \& Statistics | 3 | Gen Ed (MAT if MAT 131 was not needed) | 3 |
| Gen Ed (Lab Course Recommended) | 4 | Gen Ed | 3 |
| Gen Ed | $\underline{3}$ | Elective | 3 |
| TOTAL <br> Complete 5 hours of Community Service | 15 | Complete 5 hours of Community Service ${ }^{\text {TOTAL }}$ | 15 |
| Semester 7 | Credits | Semester 8 | Credits |
| CS 400: Database Systems | 3 | CS 425: Software Development | 3 |
| CYB/DS 410 | 3 | CS 420: Computer Science Seminar | 3 |
| SCI 406: Research I Or SCI 480: Internship | 3 | SCI 407: Research II Or SCI 480: Internship | 3 |
| Gen Ed | 3 | Elective | 3 |
| Elective | $\underline{3}$ | Elective | $\underline{3}$ |
| TOTAL <br> Complete 5 hours of Community Service | 15 | Complete 5 hours of Community Service ${ }^{\text {TOTAL }}$ | 15 |

## Academic Policy on Eligibility for Participation of May Commencement Ceremony

The academic policy, which the Registrar follows, is: A student who has 6 or less credits remaining to complete the degree may participate in the May Commencement Ceremony. The Graduation Application is available online in myAlvernia on the 'Academics' tab. Seniors must submit the Graduation Application to the Registrar's Office as follows: October 1 for May Graduation; December 1 for August graduation; and March 1 for December graduation. If you have any questions, please call the Registrar's Office (610.796.8201)

## Curriculum Sheets, EAB Navigate, and AUAdvise

The information on this page and the Curriculum Sheet is provided in AUAdvise - EAB Navigate as a static tool for discussion purposes when meeting with students to schedule courses. Degree Audit uAcheive remains the official source for each student's curiculum audit. Degree Audit uAchieve must be used together with the Curriculum Sheet to determine whether the information noted during scheduling meetings on the curriculum sheet remains accurate.

## General Notes

- A minimum of 123 credits are required for graduation.
- Where appropriate, courses required for the major can be used to satisfy General Education requirements. However, the credits earned for these courses are applied to either Gen Ed requirements or the major, not both.
- Paths of Knowledge coursework may count towards major or minor requirements but may not fulfill a second Mid-Level Liberal Arts Exploration requirement.
- Students are expected to follow the catalog requirements for General Education, the major, and additional requirements.
- A minor or second major within the areas listed under Paths of Knowledge automatically fulfills that area of the Gen Ed requirements.
- Students must complete 45 of their last 60 credits at Alvernia University
- Students must complete community service hours as part of the General Education Program


## Degree/Major: BS COMPUTER SCIENCE

Name: $\qquad$ Id:
(PSY, HIS, POS, SOC, SSC, or ECON)

## GENERAL EDUCATION

Enduring Questions (12 cr)
SEARCH Sem. Enduring Questions
THE 105 Foundations of Theology
PHI 105 Introduction to Philosophy
COM 101 Composition \& Research
(C grade or better)
(3)
(3)
(3)
(3) $\qquad$

Creative Expressions ( 6 cr )
/ $\square /$ $\qquad$ (3)
(3)


Ethical Leaders \& Followers (6 cr)


## Paths of Knowledge ( 9 cr @ 200-400 level in ONE path)

Path 1: Interdisciplinary Study; at least two from Liberal Arts
Path 2: Multidisciplinary Study; at least two from Liberal Arts Path 3: In-depth Disciplinary Study-MATH


Human Diversity:
$\square$ Senior Capstone: Met with SCI $406 / 407$ or 480
$\square$ Writing Enhanced Course:
$\square$ Community Service Hours: Required: $\qquad$ Met: $\qquad$
$\square$ Overall GPA >= 2.00
GPA in Major $>=2.00$

## Residency Requirements:

$\square 45$ of last 60 credits
$\square$ Min 12 Alvernia credits in major
$\square$ Min 9 Alvernia credits in minor (if applicable) Min 123 non-remedial credits earned

Matriculation Year 2023-2024 - Term: $\qquad$

## COMPUTER SCIENCE ( 65 cr ) <br> Major (36 cr)

/ CS 115 Intro to Programming
CS 120 Intro to IT
CS 155 Intro Object-Oriented Prog
CS 210 Comp Org/Assembly Lang
CS 220 Data Structures \& Algorithms
CS 310 Operating Systems
CS 320 Algorithm Design \& Analysis
CS 400 Database Systems
CS 420 Computer Science Seminar
Select: 425 Software Development
/ SCI 480 Internship
SCI 480 Internship
(must complete a total of 6 credits)

## OR

/ $\square$ SCI 406 Research I
/ $\square$ SCI 407 Research II

## Choose One Track ( $\mathbf{1 5} \mathbf{~ c r}$ ) Cyber

## Security Track

## $\square$ CYB 110 Intro to CyberSecurity <br> / $\square$ / CYB 210 Modern CS Design <br> $\square /$ CYB 310 Computer Network \& CS <br> / $\square$ / CYB 410 Computer Forensics <br> / $\square$ / CS/CYB/MAT at 300+ <br> OR <br> Data Science Track <br> $\square$ DS 110 Data Analytics <br> DS 210 Data Visualization/Methods <br> / DS 310 Data Mining/Machine Learn <br> DS 410 Advanced Methods <br> / $\square$ CS/DS/MAT at 300+ <br> $\qquad$ <br> Math Related Requirements ( $\mathbf{1 4} \mathbf{~ c r}$ ) <br> $\square$ MAT 209 Probability \& Statistics

$\qquad$
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## GradeNotes:


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## _-_

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Recommended ( $\mathbf{3}$ cr):
$/ \square$ MAT 131 Pre-Calculus
(3) $\qquad$
MINOR (optional) (17-21 cr)


## ELECTIVES (as needed)



