IDN: _____   Printed Name: _____

<h1 style="text-align:center">BS-Computer Science-Major Code: 1054</h1>

Concentration Codes: C037 Cybersecurity_____   C039 General_____   C051 Data Science and Artificial intelligence_____

This degree is available in a guaranteed 8-semester plan for qualified freshmen. **See your advisor to declare your major and sign an official degree plan.**
The prerequisites and corequisites of the degree requirements are subject to change.

MATH/ENGL prerequisite/co-requisite courses if student does not meet placement requirements:
Prerequisites: MATH 0304 _____   **Corequisites:** ENGL 0201_____   ENGL 0202_____   MATH 0301 _____   MATH 0201_____

FRESHMAN YEAR- FALL SEMESTER: 14 hours

Courses

Course	Hours	Note	Grade
English composition requirement	3 Hours	Note 1	Grade_____
MATH 2804 Calculus I	4 Hours		Grade_____
CS 1093 Computer Science Concepts	3 Hours	Note 2 & 4	Grade_____
Fine Arts/Humanities/Social Sciences requirement	3 Hours	Note 1	Grade_____
STEM 1001 College Prep for STEM Majors	1 Hour		Grade_____

FRESHMAN YEAR- SPRING SEMESTER: 15 hours

Courses

Course	Hours	Note	Grade
English composition requirement	3 Hours	Note 1	Grade_____
MATH 2854 Calculus II	4 Hours		Grade_____
CS 1014 Foundations of Programming I	4 Hours	Note 2 & 4	Grade_____
CS 1044 Foundations of Networking	4 Hours	Note 2 & 4	Grade_____

SOPHOMORE YEAR- FALL SEMESTER: 15 hours

Courses

Course	Hours	Note	Grade
Lab Science requirement	4 Hours	Note 1	Grade_____
CS 2053 Foundations of CyberSecurity	3 Hours	Note 2 & 4	Grade_____
CS 1024 Foundations of Programming II	4 Hours	Note 2 & 4	Grade_____
CS (1000-2000) Lower-Level Elective	3 Hours	Note 2 & 3	Grade_____
FIN 1521 Personal Finance Applications	1 Hours	Note 6	Grade_____

SOPHOMORE YEAR- SPRING SEMESTER: 16 hours

Courses

Course	Hours	Note	Grade
Lab Science requirement	4 Hours	Note 1	Grade_____
MATH 2443 Discrete Mathematics I	3 Hours		Grade_____
CS 2033 Web Systems	3 Hours	Note 2 & 4	Grade_____
CS 2003 Data Structures	3 Hours	Note 2 & 4	Grade_____
SPCH 1203 Intro to Speech Communication	3 Hours		Grade_____

JUNIOR YEAR- FALL SEMESTER: 15 hours

Courses

Course	Hours	Note	Grade
MATH 3303 Discrete Mathematics II	3 Hours		Grade_____
CS 3033 Computer Architecture	3 Hours	Note 2 & 4	Grade_____
CS 3043 Database Systems	3 Hours	Note 2 & 4	Grade_____
CS 3103 Algorithms	3 Hours	Note 2 & 4	Grade_____
Concentration requirement or CS/MATH/STAT elective	3 Hours	Note 2 & 3	Grade_____

JUNIOR YEAR- SPRING SEMESTER: 15 hours

Courses

Course	Hours	Note	Grade
CS 3003 Distributed Systems	3 Hours	Note 2 & 4	Grade_____
CS 3053 Operating Systems	3 Hours	Note 2 & 4	Grade_____
CS 3113 Artificial Intelligence	3 Hours	Note 2 & 4	Grade_____
Fine Arts/Humanities/Social Sciences requirement	3 Hours	Note 1	Grade_____
Concentration requirement or CS/MATH/STAT elective	3 Hours	Note 2 & 3	Grade_____

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SENIOR YEAR- FALL SEMESTER: 15 hours

Courses

Fine Arts/Humanities/Social Sciences requirement	3 Hours	Note 1	Grade_____
CS 4003 Software Engineering	3 Hours	Note 2 & 4	Grade_____
CS 4033 Ethics and Professional Practice	3 Hours	Note 2 & 4	Grade_____
History/Government Requirement	3 Hours	Note 1	Grade_____
Concentration requirement or CS/MATH/STAT elective	3 Hours	Note 2 & 3	Grade_____

SENIOR YEAR- SPRING SEMESTER: 15 hours

Courses

Fine Arts/Humanities/Social Sciences requirement	3 Hours	Note 1	Grade_____
Concentration requirement or CS/MATH/STAT elective	3 Hours	Note 2 & 3	Grade_____
CS 4023 Senior Capstone	3 Hours	Note 2 & 4	Grade_____
CS 4043 Formal Languages	3 Hours	Note 2 & 4	Grade_____
MATH/STAT Upper-level elective	3 Hours	Note 5	Grade_____

Total Hours: 120   At least 40 hours must be upper-level

NOTES

1. General Education Core requirements, see Graduation Requirements section of this catalog. Follow requirements with the following stipulations: lab science – select two from the following: GEOL 1253/1251 Physical Geology/Lab, CHEM 1403/1401 College Chemistry I/Lab, CHEM 1413/1411 College Chemistry II/Lab, PHYS 2903/2911 University Physics I/Lab, PHYS 2923/2931 University Physics II/Lab.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog.
3. Select one concentration of nine hours, one CS lower-level elective, and one CS/MATH/STAT upper-level elective with approval from advisor.
4. Requires a grade of C or higher.
5. Select a MATH/STAT upper-level elective course with advisor approval.
6. Prior to graduation students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 Personal Finance Applications (or an approved substitution) with a grade of C or better, or by a score of 70% or more on a challenge exam for FIN 1521.

Depending on the Concentration you choose see below for course choices:

CyberSecurity C037
Select three courses from the following:

Courses

CS 3513 Applied Cryptography	3 Hours	Note 2	Grade_____
CS 3523 Computer Forensics	3 Hours	Note 2	Grade_____
CS 4213 Identity Management	3 Hours	Note 2	Grade_____
CS 4503 CyberOps	3 Hours	Note 2	Grade_____
CS 4523 Cyber Crimes	3 Hours	Note 2	Grade_____

General C039

Courses

Select any three upper-level CS elective courses with advisor approval.	9 Hours	Note 2	Grade_____

Data Science and Artificial Intelligence C051
Select three courses from the following:

Courses

CS 3323 Computer Graphics	3 Hours	Note 2	Grade_____
CS 3333 Big Data	3 Hours	Note 2	Grade_____
CS 4143 Deep Learning	3 Hours	Note 2	Grade_____
CS 4153 Advanced Algorithms	3 Hours	Note 2	Grade_____
CS 4323 Data Analytics	3 Hours	Note 2	Grade_____
CS 4333 Machine Learning	3 Hours	Note 2	Grade_____
CS 4343 Natural Language Processing	3 Hours	Note 2	Grade_____
CS 4363 Internet of Things Development	3 Hours	Note 2	Grade_____
CS 4373 Information Retrieval	3 Hours	Note 2	Grade_____

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Transfer Course Information

The Arkansas Course Transfer System (ACTS) contains information about the transferability of courses within Arkansas public colleges and universities. Students are guaranteed the transfer of applicable credits and the equitable treatment of the application of credits for the admissions and degree requirements. Courses transferability is not guaranteed for courses listed in ACTS as "No Comparable Courses." ACTS-Arkansas Course Transfer System http://acts.adhe.edu -select Course Transfer. See Acceptance of Transfer Credits section of the current academic catalog for a complete list of transfer provisions.

Student Degree Program Requirements

A student's degree program requirements are those specified in the catalog in effect at the time of declaration of program major. If not on the Guaranteed 8-semester degree plan, students may choose to meet the program requirements specified in the catalog for a later year from when they began their program of study. Students must meet the above program requirements and the graduation requirements as indicated by institutional and college policy. The program can be changed only with the approval of the official advisor.

If original courses are eliminated, students may be required to meet new curriculum requirements in the degree program. If students are not enrolled for two or more consecutive terms (excluding summer terms), they must re-enter under the program requirements of the current catalog. Students are responsible for understanding program requirements and changes.

Guaranteed 8-Semester Degree Completion Program Pursuant to Act 1014 of 2005, qualified first-time freshmen with a declared major may elect to participate in the guaranteed 8-semester degree completion program. Students must follow the above degree plan and meet all requirements as outlined in the Guaranteed 8-semester Degree Completion Program contract. The contract and this degree plan must be signed and filed with the advisor before the first day of classes for the student's first term of attendance. The official copy of the contract and degree plan are filed in the Records Office.

Approved by Dr. Georgia Hale, March 1, 2022-Catalog Year 2022-2023. This document is not official until signed and dated by both the student and an authorized university representative.

Student Signature _____ Date _____

Advisor Signature _____ Date _____