

IDN: \_\_\_\_\_ Printed Name: \_\_\_\_\_

**BS-Information Technology-Major Code: 1044**

Concentration Codes: C033 Programming\_\_\_\_ C034 Networking\_\_\_\_ C037 Security\_\_\_\_ C039 General\_\_\_\_ C051 Data Analytics\_\_\_\_

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.*

**FRESHMAN YEAR- FALL SEMESTER: 16 hours**

**Courses**

English composition requirement	3 Hours	Note 1	Grade_____
MATH 2804 Calculus I	4 Hours		Grade_____
CS 1044 Foundations of Networking	4 Hours	Note 2	Grade_____
CS 1014 Foundations of Programming I	4 Hours	Note 2	Grade_____
STEM 1001 College Prep for STEM Majors	1 Hour		Grade_____

**FRESHMAN YEAR- SPRING SEMESTER: 15 hours**

**Courses**

CS 1024 Foundations of Programming II	4 Hours	Note 2	Grade_____
CS 1033 Foundations of Operating Systems I	3 Hours	Note 2	Grade_____
CS 2022 IT Systems Management	2 Hours	Note 2	Grade_____
SPCH 1203 Intro to Speech Communication	3 Hours		Grade_____
English composition requirement	3 Hours	Note 1	Grade_____

**SOPHOMORE YEAR- FALL SEMESTER: 16 hours**

**Courses**

CS 1063 Foundations of Operating Systems II	3 Hours	Note 2	Grade_____
CS 2003 Data Structures	3 Hours	Note 2	Grade_____
CS 2013 Database Systems I	3 Hours	Note 2	Grade_____
MATH 1903 Introductory Discrete Math	3 Hours		Grade_____
Lab Science requirement	4 Hours	Note 1	Grade_____

**SOPHOMORE YEAR- SPRING SEMESTER: 16 hours**

**Courses**

CS 2033 Web Systems	3 Hours	Note 2	Grade_____
CS 2043 Database Systems II	3 Hours	Note 2	Grade_____
STAT 2503 Probability and Statistics I or MATH 2854 Calculus II	3 Hours	Note 5	Grade_____
Lab Science requirement	4 Hours	Note 1	Grade_____
Fine Arts/Humanities/Social Sciences requirement	3 Hours	Note 1	Grade_____

**JUNIOR YEAR- FALL SEMESTER: 15 hours**

**Courses**

CS 3003 Distributed Systems	3 Hours	Note 2	Grade_____
CS 3503 IT Security	3 Hours	Note 2	Grade_____
CS 3103 Algorithm Design or CS 3223 Routing and Switching	3 Hours	Note 2	Grade_____
Concentration requirement/CS Elective	3 Hours	Note 2 & 3	Grade_____
History/Government Requirement	3 Hours	Note 1	Grade_____

**JUNIOR YEAR- SPRING SEMESTER: 15 hours**

**Courses**

CS 3013 Human Computer Interaction	3 Hours	Note 2	Grade_____
CS 3023 Research Methods in Information Tech	3 Hours	Note 2	Grade_____
CS 3113 Artificial Intelligence or CS 4213 Identity Management	3 Hours	Note 2	Grade_____

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Concentration requirement/CS Elective	3 Hours	Note 2 & 3	Grade_____
Fine Arts/Humanities/Social Sciences requirement	3 Hours	Note 1	Grade_____

**SENIOR YEAR- FALL SEMESTER: 15 hours**

**Courses**

CS 3033 Computer Architecture	3 Hours	Note 2	Grade_____
CS 4003 Systems Analysis and Design	3 Hours	Note 2	Grade_____
Concentration requirement/CS Elective	3 Hours	Note 2 & 3	Grade_____
Concentration requirement/CS Elective	3 Hours	Note 2 & 3	Grade_____
Fine Arts/Humanities/Social Sciences requirement	3 Hours	Note 1	Grade_____

**SENIOR YEAR- SPRING SEMESTER: 12 hours**

**Courses**

CS 4023 Senior Capstone	3 Hours	Note 2 & 4	Grade_____
Concentration requirement/CS Elective	3 Hours	Note 2 & 3	Grade_____
Concentration requirement/CS Elective	3 Hours	Note 2 & 3	Grade_____
Fine Arts/Humanities/Social Sciences requirement	3 Hours	Note 1	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.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog.
3. Concentrations/CS Electives, 18 hours. Select two nine-hour concentrations, or one nine-hour concentration and nine hours of upper-level CS electives, or the data analytics concentration for 18 hours, or the general concentration with eighteen upper-level CS elective hours with approval from advisor.
4. Requires a grade of C or higher.
5. Consult with advisor to select either STAT 2503 or MATH 2854.

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:**

**Programing C033**

**Select three courses from the following:**

**Courses**

CS 3123 Business Application Programming I	3 Hours	Note 2	Grade_____
CS 3133 Business Application Programming II	3 Hours	Note 2	Grade_____
CS 3143 Game Design and Development	3 Hours	Note 2	Grade_____
CS 3403 .Net Application Programming	3 Hours	Note 2	Grade_____
CS 3533 Assembly Language Programming	3 Hours	Note 2	Grade_____
CS 3543 Systems Programming	3 Hours	Note 2	Grade_____
CS 4103 Mobile Application Development	3 Hours	Note 2	Grade_____
CS 4133 Cloud Application Development	3 Hours	Note 2	Grade_____
CS 4143 Advanced Artificial Intelligence	3 Hours	Note 2	Grade_____
CS 4153 Advanced Algorithms	3 Hours	Note 2	Grade_____
CS 4933 Competitive Programming	3 Hours	Note 2	Grade_____

**Networking C034**

**Select three courses from the following:**

**Courses**

CS 3233 Network Services	3 Hours	Note 2	Grade_____
CS 4223 Computing at Scale	3 Hours	Note 2	Grade_____
CS 4233 Advanced Routing	3 Hours	Note 2	Grade_____
CS 4503 Network Security	3 Hours	Note 2	Grade_____

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**Security 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 3543 Systems Programming	3 Hours	Note 2	Grade _____
CS 4503 Network Security	3 Hours	Note 2	Grade _____
CS 4523 Cyber Crimes	3 Hours	Note 2	Grade _____

**General C039**

**Courses**

Select any six upper-level CS elective courses with advisor approval. 18 Hours Note 2 Grade \_\_\_\_\_

**Data Analytics C051**

Select six courses from the following:

**Courses**

CS 3323 Computer Graphics	3 Hours	Note 2	Grade _____
CS 3333 Big Data	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 4933 Competitive Programming	3 Hours	Note 2	Grade _____
STAT 3503 Mathematical Statistics I	3 Hours	Note 2	Grade _____
MATH 3203 Applied Linear Algebra	3 Hours	Note 2	Grade _____
MATH 4443 Combinatorics	3 Hours	Note 2	Grade _____

**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, 2018-Catalog Year 2018-2019. This document is not official until signed and dated by both the student and an authorized university representative.

Student Signature \_\_\_\_\_ Date \_\_\_\_\_

Advisor Signature \_\_\_\_\_ Date \_\_\_\_\_