

BS- Information Technology

IDN: _____ Printed Name: _____

Major Code: 1044

Choose one concentration: ___ 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: 15 hours				FRESHMAN YEAR- SPRING SEMESTER: 16 hours			
Hrs	Courses	Notes	Grade	Hrs	Courses	Notes	Grade
3	English composition requirement	1		3	English composition requirement	1	
4	CS 1044 Foundations of Networking	2		3	SPCH 1203 Intro to Speech Communication		
4	MATH 2804 Calculus I			4	CS 1024 Foundations of Programming II	2	
4	CS 1014 Foundations of Programming I	2		3	CS 2023 IT Systems Management	2	
				3	CS 1033 Foundations of Operating Systems I	2	
SOPHOMORE YEAR- FALL SEMESTER: 16 hours				SOPHOMORE YEAR- SPRING SEMESTER: 16 hours			
Hrs	Courses	Notes	Grade	Hrs	Courses	Notes	Grade
4	Lab Science requirement	1		4	Lab Science requirement	1	
3	CS 2013 Database Systems I	2		3	STAT 2503 Probability and Statistics I		
3	MATH 1903 Introductory Discrete Math			3	CS 2033 Web Systems	2	
3	CS 2003 Data Structures	2		3	CS 2043 Database Systems II	2	
3	CS 1063 Foundations of Operating Systems II	2		3	Fine Arts/Humanities/Social Sciences req	1	
JUNIOR YEAR- FALL SEMESTER: 15 hours				JUNIOR YEAR- SPRING SEMESTER: 15 hours			
Hrs	Courses	Notes	Grade	Hrs	Courses	Notes	Grade
3	History/Government Requirement	1		3	CS 3113 Artificial Intelligence or CS 4213 Identity Management	2	
3	CS 3003 Distributed Systems	2		3	CS 3023 Research Methods in Info Tech	2	
3	CS 3503 IT Security	2		3	Concentration requirement/CS Elective	2 & 3	
3	Concentration requirement/CS Elective	2 & 3		3	CS 3013 Human Computer Interaction	2	
3	CS 3103 Algorithm Design or CS 3223 Routing and Switching	2		3	Fine Arts/Humanities/Social Sciences req	1	
SENIOR YEAR- FALL SEMESTER: 15 hours				SENIOR YEAR- SPRING SEMESTER: 12 hours			
Hrs	Courses	Notes	Grade	Hrs	Courses	Notes	Grade
3	Fine Arts/Humanities/Social Sciences req	1		3	Fine Arts/Humanities/Social Sciences req	1	
3	CS 3033 Computer Architecture	2		3	CS 4023 Senior Capstone	2 & 4	
3	Concentration requirement/CS Elective	2 & 3		3	Concentration requirement/CS Elective	2 & 3	
3	Concentration requirement/CS Elective	2 & 3		3	Concentration requirement/CS Elective	2 & 3	
3	CS 4003 Systems Analysis and Design	2					

Total Hours: 120 At least 45 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 concentrations OR one concentration and nine hours of upper-level CS electives OR the general concentration with eighteen upper-level CS elective hours with approval from advisor.
- 4: Requires a grade of C or higher.

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.

Programming C033				Networking C034			
Select three courses from the following:				Select three courses from the following:			
Hrs	Courses	Notes	Grade	Hrs	Courses	Notes	Grade
3	CS 3123 Business Application Programming I	2		3	CS 3233 Network Services	2	
3	CS 3133 Business Application Programming II	2		3	CS 4223 Computing at Scale	2	
3	CS 3143 Game Design and Development	2		3	CS 4233 Advanced Routing	2	
3	CS 3403 .Net Application Programming	2		3	CS 4503 Network Security	2	
3	CS 3533 Assembly Language Programming	2					
3	CS 3543 Programming in C	2					
3	CS 4103 Mobile Application Development	2					
3	CS 4133 Cloud Application Development	2					
3	CS 4143 Advanced Artificial Intelligence	2					
3	CS 4153 Advanced Algorithms	2					

Security C037				Data Analytics C051			
Select three courses from the following:				Select three courses from the following:			
Hrs	Courses	Notes	Grade	Hrs	Courses	Notes	Grade
3	CS 3513 Applied Cryptography	2		3	CS 3323 Computer Graphics	2	
3	CS 3523 Computer Forensics	2		3	CS 3333 Big Data	2	
3	CS 3543 Programming in C	2		3	CS 4153 Advanced Algorithms	2	
3	CS 4503 Network Security	2		3	CS 4323 Data Analytics	2	
3	CS 4523 Cyber Crimes	2		3	CS 4333 Machine Learning	2	
General C039							
18	Select any six upper-level CS elective courses with advisor approval.	2					

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, 2017-Catalog Year 2017-2018. This document is not official until signed and dated by both the student and an authorized university representative.

Student Signature _____ Date _____

Advisor Signature _____ Date _____