

BS- Information Technology

Printed Name: _____ IDN: _____

Major Code: 1044

Choose one concentration : ___ C033 Programming; ___ C034 Networking; ___ C035 Database; ___ C036 Web Design; ___ C037 Security; ___ C038 Game Design; ___ C039 General; ___ C045 Enterprise Computing; ___ C046 Management of Information Systems (MIS); ___ C047 Mobile Application Development

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				FRESHMAN YEAR- SPRING SEMESTER: 16 hours			
Hrs	Courses	Notes	Grade	Hrs	Courses	Notes	Grade
3	CS 1013 Foundations of Programming I	2		3	CS 1023 Foundations of Programming II	2	
3	CS 1033 Foundations of Operating Systems	2		3	CS 1043 Foundations of Networking	2	
4	MATH 2804 Calculus I			3	Fine Arts/Humanities/Social Sciences req	1	
3	Concentration requirement	2 & 3		3	English composition requirement	1	
3	English composition requirement	1		4	Lab Science requirement	1	
SOPHOMORE YEAR- FALL SEMESTER: 15 hours				SOPHOMORE YEAR- SPRING SEMESTER: 16 hours			
Hrs	Courses	Notes	Grade	Hrs	Courses	Notes	Grade
3	CS 2003 Data Structures	2		3	CS 2033 Web Systems	2	
3	CS 2013 Database Systems I	2		3	STAT 2503 Probability and Statistics I		
3	MATH 1903 Introductory Discrete Math			3	Concentration requirement	2 & 3	
3	SPCH 1203 Intro to Speech Communication			4	Lab Science requirement	1	
3	Concentration requirement	2 & 3		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	CS 3003 Distributed Systems	2		3	CS 3013 Human Computer Interaction	2	
3	CS 3503 IT Security	2		3	CS 3023 Research Methods in Info Tech	2	
3	Concentration requirement	2 & 3		3	CS 3033 Computer Architecture	2	
3	Concentration requirement	2 & 3		3	HIST 3063 History of Technology in Society		
3	History/Government Requirement	1		3	Concentration requirement	2 & 3	
SENIOR YEAR- FALL SEMESTER: 15 hours				SENIOR YEAR- SPRING SEMESTER: 12 hours			
Hrs	Courses	Notes	Grade	Hrs	Courses	Notes	Grade
3	CS 4003 Systems Analysis and Design	2		3	CS 4023 Senior Capstone	2	
3	CS 4013 Research Project in Info Tech	2		3	Concentration requirement	2 & 3	
3	Concentration requirement	2 & 3		3	Concentration requirement	2 & 3	
3	Concentration requirement	2 & 3		3	Fine Arts/Humanities/Social Sciences req	1	
3	Fine Arts/Humanities/Social Sciences req	1					

Total Hours: 120 At least 45 hours must be upper level

NOTES

1: General Education Core requirements see Graduation Requirements section of this catalog with the following stipulation-social sciences: MIS concentration must take ECON 2813 and one other course from social sciences.

2: These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog.

3: Concentration requirement, 30 hours. MIS concentration must take MGMT 1203 during freshman year fall semester. Select one of the concentrations below in consultation with faculty advisor:

Programming 30 hrs				Networking 30 hrs			
Hrs	Courses	Notes	Grade	Hrs	Courses	Notes	Grade
3	CS 1053 Computer Hardware	2		3	CS 1053 Computer Hardware	2	
3	CS 2023 IT Systems Management	2		3	CS 2023 IT Systems Management	2	
3	CS 2043 Database Systems II	2		3	CS 2043 Database Systems II	2	
Select 21 hrs from the following:				3	CS 3203 Windows System Administration	2	
3	CS 3103 Algorithm Design	2		3	CS 3213 Linux System Administration	2	
3	CS 3113 Artificial Intelligence	2		3	CS 3223 Routing and Switching	2	
3	CS 3123 Business Application Programming I	2		3	CS 4203 Mobile and Wireless Networking	2	
3	CS 3133 Business Application Programming II	2		3	CS 4213 Identity Management	2	
3	CS 3143 Game Design and Development	2		3	CS 4503 Network Security	2	
3	CS 4103 Mobile Application Development	2		3	Three hour upper-level computer & information science elective from outside concentration	2	
3	CS 4113 Operating System Development	2					
3	CS 4123 High Performance Computing Applications	2					
3	CS 4133 Cloud Applications Development	2					
3	Three hour upper-level computer & information science elective from outside concentration	2					

Database 30 hours				Web design 30 hours			
Hrs	Courses	Notes	Grade	Hrs	Courses	Notes	Grade
3	CS 1053 Computer Hardware	2		3	ART 1103 2D Design	2	
3	CS 2023 IT Systems Management	2		3	ART 1123 Digital Imaging	2	
3	CS 2043 Database Systems II	2		3	ART 1133 Introduction to Typography	2	
3	CS 3103 Algorithm Design	2		3	GRDS 2253 Web Design I (See advisor for OVR)	2	
3	CS 3303 Database Procedures and Applications	2		3	GRDS 3273 Motion Design	2	
3	CS 3313 Data Warehousing	2		3	CS 3213 Linux System Administration	2	
3	CS 4303 Database Administration	2		3	CS 3403 .Net Application Programming	2	
3	CS 4313 Comparative Databases	2		3	CS 4133 Cloud Applications Development	2	
3	CS 4323 Data Analytics	2		3	CS 4523 Cyber Crimes	2	
3	Three hour upper-level computer & information science elective from outside concentration	2		3	Three hour upper-level computer & information science elective from outside concentration	2	
Security 30 hours				Game Design 30 hours			
Hrs	Courses	Notes	Grade	Hrs	Courses	Notes	Grade
3	CS 1053 Computer Hardware	2		4	CGT 1644 3D Visualization	2	
3	CS 2023 IT Systems Management	2		4	CGT 2664 Digital Design Level I	2	
3	CS 2043 Database Systems II	2		4	CGT 2674 Digital Layout Level I	2	
Select 21 hours from the following:				Select 15 hours from the following:			
3	CS 3513 Applied Cryptography	2		3	BSAT 3033 Motion for Applied Animation OR CS 4103 Mobile Application Development	2	
3	CS 3523 Computer Forensics	2		Select 15 hours from the following:			
3	CS 3533 Assembly Language Programming	2		4	BSAT 3014 Modeling Processes	2	
3	CS 3543 Programming in C	2		4	BSAT 3084 3D Advanced Concepts	2	
3	CS 4503 Network Security	2		2-4	BSAT 490V Advanced Special Projects	2	
3	CS 4513 Advanced Digital Forensics	2		3	CS 3113 Artificial Intelligence	2	
3	CS 4523 Cyber Crimes	2		3	CS 3143 Game Design and Development	2	
3	CS 4533 Digital Insider and Corporate Crimes	2		3	CS 3153 Game Engine Programming	2	
3	CS 4543 Advanced C Programming	2					
3	Three hour upper-level computer & information science elective from outside concentration	2					
General 30 hours				Enterprise Computing 30 hours			
Hrs	Courses	Notes	Grade	Hrs	Courses	Notes	Grade
3	CS 1053 Computer Hardware	2		3	CS 1603 Intro to Enterprise Computing on SAP	2	
3	CS 2023 IT Systems Management	2		3	CS 2603 SAP System Administration	2	
3	CS 2043 Database Systems II	2		3	CS 2613 SAP Security Administration	2	
3	One UL course in a computer & information science concentration of the student's choice	2		3	CS 3603 SAP Configuration	2	
Take one upper-level course (3000-4000) from each of the following concentration areas. 18 hrs -12 hrs must be 4000 level:				3	CS 3613 SAP Business Warehouse I	2	
3	Programming	2		3	CS 3623 SAP Business Warehouse II	2	
3	Networking	2		3	CS 4603 SAP Business Objects Reporting	2	
3	Database	2		3	CS 4613 ABAP Programming I	2	
3	Website Design	2		3	CS 4623 ABAP Programming II	2	
3	Security	2		Select one of the following:			
3	Game Design	2		3	CS 4693 Info Technology Special Topics in SAP	2	
				3	Three hour upper-level computer & information science elective from outside concentration	2	
Management of Information Systems (MIS) 30 hours				Mobile Application Development 30 hours			
3	ACCT 2803 Principles of Financial Accounting	2		3	CS 1053 Computer Hardware	2	
3	CS 2043 Database Systems II	2		3	CS 2023 IT Systems Management	2	
3	MGMT 1203 Foundations of Business	2		3	CS 2043 Database Systems II	2	
3	MKTG 3013 Principles of Marketing Management*	2		3	CS 3213 Linux System Administration	2	
Select 12 hours from the following:				3	CS 3703 IOS Mobile Application Development I	2	
3	CS 3123 Business Application Programming I	2		3	CS 3713 Android Mobile Application Development I	2	
3	CS 3133 Business Application Programming II	2		3	CS 4133 Cloud Applications Development	2	
3	CS 3213 Linux System Administration	2		3	CS 4203 Mobile and Wireless Networking	2	
3	CS 3303 Database Procedures and Application	2		3	CS 4703 IOS Mobile Application Development II	2	
3	CS 3403 .Net Application Programming	2		3	CS 4713 Android Mobile Application Development II	2	
3	CS 3523 Computer Forensics	2					
3	CS 4103 Mobile Application Development	2					
3	CS 4513 Advanced Digital Forensics	2					
3	CS 4533 Digital Insider and Corporate Crimes	2					
3	Three hour upper-level computer & information	2					

	science elective from outside concentration					
Select six hours of College of Business Courses from the following*:						
3	ACCT 3053 Accounting Information Systems	2				
3	MGMT 3173 Human Resource Management	2				
3	MGMT 3523 Operations Management	2				
3	MGMT 3913 Decision Support Systems	2				
3	MKTG 3043 E-Business Marketing	2				
3	Upper-level College of Business elective	2				
<p>*Once a student completes ECON 2813, MGMT 1203, and ACCT 2803, the College of Business will override the admission and computing competency prerequisites for these classes, assuming that formal course prerequisites for the respective courses are met. The exceptions are ACCT 3053, MGMT 3523, MGMT 3913, and MKTG 3013. Students having declared the MIS concentration are NOT required to take ACCT 2813 or ECON 2803 as prerequisites to these courses.</p>						
<p>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.</p>						

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, 2016-Catalog Year 2016-2017. This document is not official until signed and dated by both the student and an authorized university representative.

Student Signature _____ Date _____

Advisor Signature _____ Date _____