

2023-2024 Degree Map-Bachelor of Science in Information Technology (Track 2: Network and Security)

This map is a term-by-term sample course schedule. The milestones listed to the right of each term are designed to keep you on course to graduate in four years. The Sample Schedule serves as a general guideline to help you build a full schedule each term. See course descriptions and prerequisites at <http://www.atu.edu/catalog/>

Possible careers include: Computer and Information Systems Manager, Computer Systems Analyst, IT Administrator, Webmaster

#Prerequisite Courses: ENGL 0303 _____ MATH 0803 _____ MATH 1003 _____ MATH 0903 _____ MATH 1110 _____

Sample Schedule

Semester 1	Hrs.	Grade	Milestones/Notes	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#		
MATH 1113- College Algebra (ACTS= MATH 1103)	3	#	If ACT math 22 or higher, use as General Elective	
TECH 1001- Orientation to the University	1			
CSEC 1003- Introduction to Cybersecurity	3			
CSEC 1113- Introduction to Networking	3			
COMS 1333- Web and Mobile Technologies	3			
Total hours	16	GPA		

Semester 2	Hrs.	Grade	Milestones/Notes	Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#		
MATH 2243- Calculus for Business & Econ. (ACTS=MATH 2203)	3		Prereq: MATH ACT >22, or # in MATH 1113 or higher	
Social Sciences	3			
COMS 1013- Programming Foundations I	3	#	Prereq: MATH 1113 or higher	
COMS 1011- Programming Foundations I Lab	1	#	PASS/FAIL - Coreq: COMS 1013	
COMS 2703- Computer Hardware & Architecture	3			
Total hours	16	GPA		

Semester 3	Hrs.	Grade	Milestones/Notes	Semester 3
Science with Lab	4			
COMS 2203- Programming Foundations II	3	#	Milestone - Prereq: # COMS 1013 & # MATH 1113 or higher	
MATH 2703-Discrete Mathematics	3		Milestone - Prereq: # MATH 1113 or higher	
CSEC 2213- Network Forensics and Incident Response	3		Prereq: CSEC 1113	
CSEC 2223- Virtualization	3		Fall Only Prereq: CSEC 1113	
Total hours	16	GPA		

Semester 4	Hrs.	Grade	Milestones/Notes	Semester 4
ENGL 2053-Technical Writing (ACTS=ENGL 2023)	3		Prereq: ENGL 1023	
COMM 2173- Business and Professional Speaking	3		COMM 2003 Public Speaking may sub	
COMS 2163- Scripting Languages OR COMS 2323- Programming in Python	3		Prereq: COMS 1333 and 3-hr programming course Prereq: COMS 2203	
COMS 2213- Data Structures	3		Milestone - Prereq: MATH 2703 and # in COMS 2203	
COMS 2713- Survey of Operating Systems	3		COMS 3703 Adv. Operating Systems will sub	
Total hours	15	GPA	COMS ADVISOR ASSIGNED	

The Arkansas Course Transfer System (ACTS) is designed to assist in planning the academic progress of students. This system contains information about the transferability of courses within Arkansas public colleges and universities. The Arkansas Course Transfer System can be accessed by searching keyword "ACTS" at <https://adhe.edu/>

indicates a "C" or higher is required

MATH 2914 may sub for MATH 2243.

Fine Arts and Humanities	U.S. History & Government
ART 2123 Experiencing Art (ACTS=ARTA1003)	HIST 1903 Survey of American History
MUS 2003 Introduction to Music (ACTS=MUSC1003)	HIST 2003 U.S. History to 1877 (ACTS=HIST2113)
TH 2273 Introduction to Theatre (ACTS=DRAM 1003)	HIST 2013 U.S. History since 1877 (ACTS=HIST2123)
ENGL/JOUR 2173 Introduction to Film	POLS 2003 American Government (ACTS=PLSC2003)
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)	
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)	Science with Lab
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)	BIOL 1014- Intro. to Biological Science (ACTS= BIOL1004)
PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)	BIOL/PHSC 1004- Principles of Environmental Science
1013 from SPAN, FR, GER, JPN, CHIN, or LAT	GEOL 1014- Physical Geology (ACTS= GEOL 1114)
1023 from SPAN, FR, GER, JPN, CHIN, or LAT	PHSC 1013/1021- Physical Sci/Lab (ACTS= PHSC 1004)

University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum.

Sample Schedule

Semester 5	Hrs.	Grade	Milestones/Notes	Semester 5
Fine Arts & Humanities	3			
COMS 3233- Data Design and Implementation	3		Prereq: COMS 2203	
COMS 3363- Server Administration	3		Fall Only -Prereq: COMS 2703 and 2713	
CSEC 3123- Cyber Defense I	3		Fall Only-Prereq: CSEC 2213 and CSEC 2223	
Approved Elective (3000-4000)	3			
Total hours	15	GPA		

Semester 6	Hrs.	Grade	Milestones/Notes	Semester 6
Science with Lab	4			
COMS 3053- Ethical Issues in Technology	3		Prereq: Junior standing in COMS	
COMS 3733- Data Center Operations	3		Spring Only	
CSEC 3233- Cyber Defense II	3		Spring Only - Prereq: CSEC 3123	
Approved Elective (3000-4000)	2			
Total hours	15	GPA	APPLY FOR GRADUATION	

Semester 7	Hrs.	Grade	Milestones/Notes	Semester 7
Social Sciences	3			
US History/Government	3			
COMS 3523- Human Factors in IT	3		Prereq: Jr standing	
COMS 4913- Capstone I	3			
Approved Elective (3000-4000)	3			
Total hours	15	GPA		

Semester 8	Hrs.	Grade	Milestones/Notes	Semester 8
Fine Arts & Humanities	3		Graduation Requirements: Min. hours 3000-4000 level courses: 40 No more than 4 PE activity hours Min. hours required:120 2.00+ GPA	
COMS 4713- Networking Practicum	3			
COMS 4923- Capstone II	3			
Approved Elective (3000-4000)	3			
Total Hours	12	GPA		

General Electives: 0 hours. Approved 3000-4000 Electives: 11 hours.

*TECH 1013 Introduction to the University is a sub for TECH 1001 Orientation to University. General Electives would reduce from 3 hours to 1 hour.

Shading indicates courses that would directly apply the AAS-ITAS degree.

Students should consider CP in Computer Programming and Computer Networking. See Catalog

Social Sciences
HIST 1503 World History to 1500 (ACTS=HIST1113)
HIST 1513 World History since 1500 (ACTS=HIST1123)
HIST 2003 U.S. History to 1877 (ACTS=HIST2113)
HIST 2013 U.S. History since 1877 (ACTS=HIST2123)
HIST 1903 Survey of American History
POLS 2003 American Government (ACTS=PLSC2003)
ECON 2003 Principles of Macroeconomics (ACTS=ECON2103)
ECON 2013 Principles of Microeconomics (ACTS=ECON2203)
SOC 1003 Introductory Sociology (ACTS=SOCI1013)
PSY 2003 General Psychology (ACTS=PSYC1103)
ANTH 1213 Intro. to Anthropology (ACTS=ANTH1013)
ANTH 2003 Cultural Anthropology (ACTS=ANTH2013)
GEOG 2013 Regional Geography of the World (ACTS=GEOG2103)
AMST 2003 American Studies
FIN 2013 Personal Finance
LEAD 1003 Introduction to Leadership