

2025-2026 Degree Map-Bachelor of Science in Information Technology: 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 <https://catalog.atu.edu/>

#Prerequisite Courses: ENGL 0303 ____ MATH 0803 ____ MATH 1003 ____ MATH 0903 ____ MATH 1113 ____ 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		Create a LinkedIn profile	
Total hours	16	GPA		

Semester 2	Hrs.			Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#		
MATH 2243- Calculus for Business & Econ. (ACTS=MATH 2203)	3		MATH 2914 will sub	
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		Attend a career fair and explore part-time or volunteer options	
Total hours	16	GPA		

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

Semester 4	Hrs.			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- Script Lang. OR COMS 2323- Program in	3		Prereq: COMS 1333 and COMS 2203	
COMS 2213- Data Structures	3		Prereq: MATH 2703 and C> in COMS 2203	
STAT 2163 Intro to Statistical Methods	3			
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/>

Fine Arts and Humanities ART 2123 Experiencing Art (ACTS=ARTA1003) MUS 2003 Survey of Music History (ACTS=MUSC1003) TH 2273 Introduction to Theatre (ACTS=DRAM 1003) ENGL/JOUR 2173 Introduction to Film ENGL 2003 Introduction to World Literature (ACTS=ENGL2113) ENGL 2013 Intro. to American Literature (ACTS=ENGL2653) PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103) PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003) 1013 from SPAN, FR, GER, JPN, CHIN, or LAT 1023 from SPAN, FR, GER, JPN, CHIN, or LAT LEAD 2003 Ethics in Leadership	U.S. History & Government HIST 1903 Survey of American History HIST 2003 U.S. History to 1877 (ACTS=HIST2113) HIST 2013 U.S. History since 1877 (ACTS=HIST2123) POLS 2003 American Government (ACTS=PLSC2003) University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum.
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Possible Careers: Design, Implementation, and Securing of Networks and Systems. Network Administration, Network Engineering, Security Analysis and Consulting, Penetration Testing, Network Architecture

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			
			Do a mock interview utilizing Career Services	
Total hours	15	GPA		

Semester 6	Hrs.			Semester 6
Science with Lab	4			
COMS 3053- Ethical Issues in Technology	3		Prereq: Junior standing in COMS	
COMS 3373- 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.			Semester 7
Social Sciences	3		Finalize résumé, cover letter, and references	
US History/Government	3			
COMS 3523- Human Factors in IT	3		Prereq: Jr standing	
COMS 4913- Capstone I	3			
Approved Elective (3000-4000)	3		Complete check-in with Career Services	
Total hours	15	GPA		

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

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

indicates a "C" or higher is required

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

Consider adding Certificate of Proficiency in Computer Programming and Computer Networking

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=SOC1013) PSY 2003 General Psychology (ACTS=PSYC1103)	Science with Lab 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 Science with Lab BIOL 1014- Intro. to Biological Science (ACTS= BIOL1004) BIOL/PHSC 1004- Principles of Environmental Science GEOL 1014- Physical Geology (ACTS= GEOL 1114)
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