

2025-2026 Degree Map-Bachelor of Science in Information Technology: Program, Database, and Web

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		Draft a résumé and upload it to Handshake and create a LinkedIn profile	
COMS 1333- Web and Mobile Technologies	3			
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	
ENGL 2053-Technical Writing (ACTS=ENGL 2023)	3		Prereq: ENGL 1023	
MATH 2703-Discrete Mathematics	3		Prereq: C> MATH 1113 or higher	
General Elective	3			
Total hours	16	GPA		

Semester 4	Hrs.			Semester 4
COMM 2173- Business and Professional Speaking	3		COMM 2003 Public Speaking may sub	
COMS 2213- Data Structures	3		Prereq: MATH 2703 and C> in COMS 2203	
STAT 2163- Intro to Statistical Methods	3		Prereq: MATH 1003 or higher	
COMS 2323- Programming in Python	3		Prereq: COMS 2203	
COMS 2163- Scripting Languages	3		Prereq: COMS 1333 and COMS 2203	
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: Software Development, Web Development, Database Development or Administration, Project Management, Quality Assurance, Technical Consulting, E-Commerce Development

Sample Schedule

Semester 5	Hrs.	Grade	Milestones/Notes	Semester 5
Science with Lab	4			
COMS 3523- Human Factors in IT	3		Fall Only Prereq: Jr standing	
COMS 3233- Data Design and Implementation	3		Prereq: COMS 2203	
COMS 3413- App Development	3		Fall Only Prereq: COMS 1333 and 2213	
Approved Elective (3000-4000)	2			
			Do a mock interview utilizing Career Services	
Total hours	15	GPA		

Semester 6	Hrs.			Semester 6
Fine Arts & Humanities	3			
COMS 3163- Web Programming (Spring Only)	3		Prereq: COMS 1333, COMS 2213, and COMS 3233	
COMS 3053- Ethical Issues in Technology	3		Prereq: Junior standing in COMS	
COMS 3243- Data Mining	3		Spring Only . Prereq: COMS 3233 and 3-hr stats	
Approved Elective (3000-4000)	3			
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 4033- Systems Analysis and Design	3		Fall Only Prereq: COMS 3233	
COMS 4913- Capstone I	3			
COMS 3363 Server Administration	3		Fall Only	
Total hours	15	GPA	Complete check-in with Career Services	

Semester 8	Hrs.			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 4213- Database Administration (Spring Only)	3			
COMS 4923- Capstone II (Spring Only)	3			
Approved Elective (3000-4000)	3			
Total Hours	12	GPA		

General Electives: 3 hours, Approved Electives 3000-4000: 8 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

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)	Social Sciences 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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