

2026-2027 Degree Map-Bachelor of Science in Computer Science: Software Development

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 ___ MATH 1203 ___ MATH 1914 ___

Possible Careers: Programming, Coding, Software Development, Computer Systems & Design, Database Administration, Technical Support

Sample Schedule

Milestones/Notes

Semester 1	Hrs.	Grade	Semester 1
ENGL 1013-Comp I (ACTS=ENGL 1013)	3	#	Draft a résumé to upload to Handshake
CSEC 1003-Introduction to Cybersecurity	3		Create a LinkedIn profile
COMS 1333-Web and Mobile Technologies	3		
TECH 1001-Orientation to the University	1		
MATH 2914-Calculus I (ACTS= MATH 2405)	4	#	Prereq: MATH ACT >26, or C> in MATH 1203/1914
Total hours	14	GPA	

Sample Schedule

Milestones/Notes

Semester 5	Hrs.	Grade	Semester 5
Fine Arts & Humanities	3		
COMS 3703-Advanced Operating Systems	3		Fall Only Prereq: COMS 2213 & COMS 2223
COMS 3213-Algorithm Design & Analysis	3		Fall Only Prereq: COMS 2213
COMS 2163-Scripting Languages	3		Prereq: COMS 1333 & COMS 2203
STAT 3153-Applied Statistics	3		Prereq: MATH 2924
Total hours	15	GPA	Do a mock interview utilizing Career Services

Semester 2	Hrs.	Grade	Semester 2
ENGL 1023-Comp II (ACTS= ENGL 1023)	3	#	Attend a career fair to observe
CSEC 1113-Introduction to Networking	3		
COMS 1013/1011-Programming Foundations I and lab	4		Prereq: MATH 1113 or higher
MATH 2924-Calculus II (ACTS= MATH 2505)	4		Prereq: C> in MATH 2914
Total hours	14	GPA	

Semester 6	Hrs.	Grade	Semester 6
Science with Lab	4		
COMS 3053-Ethical Issues in Technology	3		Prereq: Junior standing in COMS
COMS 3233-Data Design and Implementation	3		Prereq: COMS 2203
COMS 3313-Software Engineering	3		Spring Only Prereq: COMS 3213
MATH 4003-Linear Algebra I	3		Prereq: MATH 2924
Total hours	16	GPA	APPLY FOR GRADUATION

Semester 3	Hrs.	Grade	Semester 3
COMS 2203-Programming Foundations II	3		Prereq: C> COMS 1013 & C> MATH 1113 or higher
MATH 2703-Discrete Mathematics	3		Prereq: C> MATH 1113 or higher
COMS 2703-Computer Hardware & Architecture	3		
COMS 2323-Programming in Python	3		Prereq: COMS 2203
Social Sciences	3		Attend a career fair and explore part-time or volunteer options
Total hours	15	GPA	

Semester 7	Hrs.	Grade	Semester 7
Fine Arts & Humanities	3		
COMS 4913-Capstone I	3		Fall Only
COMS 4103-Organization of Programming Languages	3		Fall Only Prereq: COMS 2213 & 2223
US History/Government	3		
Approved Elective (3000-4000 level)	3		Finalize résumé, cover letter, and references and complete a senior check-in with Career Services
Total hours	15	GPA	

Semester 4	Hrs.	Grade	Semester 4
COMS 2213-Data Structures	3		Prereq: MATH 2703 and C> in COMS 2203
COMS 2223-Computer Organization and Programming	3		Prereq: COMS 2203 & MATH 2703
COMS 2013-AI Fundamentals	3		
Science with Lab	4		
COMM 2173-Business and Professional Speaking	3		COMM 2003 Public Speaking may sub
Total hours	16	GPA	COMS ADVISOR ASSIGNED

Semester 8	Hrs.	Grade	Semester 8
COMS 4923-Capstone II	3		Spring Only
Social Sciences	3		Graduation Requirements:
COMS 4413-Parallel and Distributed Computing	3		Min. hours 3000-4000 level courses: 40
Approved Elective (3000-4000 level)	3		No more than 4 PE activity hours
Approved Elective (3000-4000 level)	3		Min. hours required:120
Total Hours	15	GPA	2.00+ GPA

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/>

<p>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</p>	<p>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)</p> <p>University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum.</p>
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Approved Electives: 9 hours (3000-4000 level)
 # indicates a "C" or higher is required
Shaded classes indicate classes toward AAS-Information Technology
Consider adding AAS-Information Technology, CP-Computer Programming, CP in Mathematics.

<p>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=SOC11013) PSY 2003 General Psychology (ACTS=PSYC1103)</p>	<p>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</p> <p>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)</p>
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