

Fayetteville State University Bachelor of Science in Computer Science

Four-Year Degree Plan

Catalog: 2016-2017

Last Update: 5/29/2017

With advisor approval, some courses listed below may be taken in an alternate semester and order. Courses that fulfill requirements are on the reverse side of this Plan. The advisor and student must consider prior credit, prerequisites, course availability, other program requirements, and student needs in developing the individual plan. Consult the appropriate Catalog for more information.

Course/Requirement	Cr	Prereq	Notes	Course/Requirement	Cr	Prereq	Notes
Year 1 Term 1				Year 1 Term 2			
UNIV 101, Freshman Seminar I	1	No	1	UNIV 102, Freshman Seminar II	1	No	1
Core Transitional Life Skills	2	No		ENGL 120, English Composition II	3	Yes	
ENGL 110, English Composition I	3	No		Core Ethics Civic Engagement	3	Check	2
PHIL 110 Or PHIL 220	3	No	2	CSC 120, Intro Programming Methodology	3	Yes	
CSC 105, Intro Computer Tech Majors	3	No		MATH 142, Calculus with Analytic Geometry	4	Yes	
MATH 131, Algebra and Trigonometry	3	Yes	3	MATH 150, Discrete Mathematics	3	Yes	
Term Total	15			Term Total	17		
Year 2 Term 1				Year 2 Term 2			
BADM 215 Or SPEE 200	3	Yes		Core Natural Science	4	Yes	4
Core Natural Science	4	Yes	4	CSC 202 or CSC 204	3	Check	6
CSC 130, Program Design & Implement	3	Yes		CSC 201, Basic Cmptr Org & Assembly Lan	3	Yes	
MATH 241, Calculus with Anal Geometry II	4	Yes		CSC 220, Data Structure/ Algorithms	3	Yes	
MATH 251, Linear Algebra	3	Yes		STAT 202, Basic Probability and Stats	3	Yes	
Term Total	17			Term Total	16		
Year 3 Term 1				Year 3 Term 2			
Core Humanities Creative Arts	3	Check		Core Social Science	3	Check	
Core Global Literacy	3	Check	5	CSC 303, Computer Org & Architecture II	3	Yes	
CSC 207, Logic Programming	3	Yes		CSC 320, Design and Analysis of Algorit	3	Yes	
CSC 200 or higher	3	Check	7	CSC 322, Programming Languages	3	Yes	
CSC 431, Prin Operating Systems	3	Yes		CSC 200 or higher	3	Check	7
Term Total	15			Term Total	15		
Year 4 Term 1				Year 4 Term 2			
CSC 350, Service Learning	2	Yes		CSC 490, Senior Project	3	Yes	
CSC 403, Social/Eth & Prof Issues	1	Yes		CSC 200 or higher	3	Check	7
CSC 470, Software Engineering	3	Yes		Major Elective	3	Yes	
Major Elective	3	Yes		Free Elective	3	Check	
Science Elective	4	Yes		Term Total	12		
Term Total	13						

Prereq--Yes: Course/Requirement has prerequisite(s). No: Course/Requirement has no prerequisite. Check: Some courses satisfying requirement have prerequisites and/or courses have non-prerequisite restrictions. Check Catalog and advisor for details.

- UNIV 101-102 required for first time students; UNIV 110 for transfers with fewer than 30 transfer credits. No credit earned if waived. UNIV 111 may be required based on academic performance.
- Not required for students with 60+ transfer credits. No credit earned if waived.
- MATH 121 may be required based on profile scores. Some core courses require a one-hour lab.
- At least one natural science class must include a lab. Some majors require two lab sciences, increasing requirement to 8 credits.
- Not required for students with 30+ transfer credits from a foreign institution. No credit earned if waived.
- CSC 202 offered only in the Fall. Students may take Core Humanities in Spring Year 2 and CSC 202 in Fall of Year 3.

Degree Requirements

Bachelor of Science in Computer Science

Catalog 2016-2017

Requirement: Courses	Pr	Cr
Core		
Transitional UNIV: (UNIV 101 And UNIV 102) Or UNIV 110 Or UNIV 111	No	2
Transitional Life Skills: ENTR 100 Or FINC 100 Or GEOG 110 Or HEED 112 Or PEDU 101 Or PEDU 107 Or PEDU 112 Or PEDU 120 Or PEDU 122 Or PEDU 130 Or PEDU 132 Or PEDU 140	No	2
Written Communication: ENGL 110	No	3
Oral Communication: BADM 215 Or SPEE 200	Yes	3
Critical Thinking: PHIL 110 Or PHIL 220	No	3
Quantitative Reasoning: MATH 129 And MATH 130 Or MATH 131	Yes	3
Information Literacy: ENGL 120	Yes	3
Natural Science: BIOL 150 And BIOL 160 Or CHEM 141 And CHEM 142 And CHEM 161 And CHEM 162 Or PHYS 121 And PHYS 122	Yes	8
Social Science: CRJC 210 Or ECON 211 Or ECON 212 Or GEOG 210 Or HIST 212 Or POLI 200 Or POLI 210 Or POLI 220 Or PSYC 210 Or SOCI 210	Check	3
Humanities Creative Arts: ART 210 Or COMM 220 Or ENGL 220 Or ENGL 223 Or ENGL 240 Or ENGL 250 Or ENGL 253 Or HIST 210 Or HUMN 211 Or HUMN 212 Or MUSI 210 Or MUSI 225 Or MUSI 260 Or PHIL 210 Or RELI 215 Or THEA 203	Check	3
Global Literacy: ANTH 210 Or ART 150 Or ART 215 Or BADM 210 Or CHIN 110 Or CHIN 120 Or ENGL 211 Or ENGL 212 Or FREN 110 Or FREN 120 Or GEOG 220 Or GLOB 200 Or HIST 110 Or HIST 120 Or HIST 270 Or PHIL 211 Or POLI 230 Or SOCI 150 Or SPAN 110 Or SPAN 112 Or SPAN 120 Or SPAN 122 Or THEA 242 Or YORU 110 Or YORU 120	Check	3
Ethics Civic Engagement: BADM 220 Or CRJC 203 Or EDUC 211 Or ENGL 232 Or ENGL 233 Or ETCE 101 Or ETCE 102 Or ETCE 103 Or ETCE 200 Or GEOG 270 Or HCM 200 Or HIST 211 Or PHIL 120 Or PHIL 212 Or PNUR 210 Or POLI 110 Or POLI 150 Or SWRK 220	Check	3
Core Total:		39
Program		
Computer Science: CSC 105 And CSC 120 And CSC 130 And CSC 201 And CSC 207 And CSC 220 And CSC 303 And CSC 320 And CSC 322 And CSC 350 And CSC 403 And CSC 431 And CSC 470 And CSC 490 And three credits from CSC 200 or higher And three credits from CSC 300 or higher And three credits from CSC 400 or higher And select one from the following: CSC 202 Or CSC 204	Check	51
Math and Stats: MATH 142 And MATH 150 And MATH 241 And MATH 251 And STAT 202	Yes	17
Major Elective: Select six credits from the following: GEOG 320 Or GEOG 325 Or MATH 242 Or MATH 260 Or MATH 300 or higher Or CSC 300 or higher Or PHYS 200 or higher Or STAT 300 or higher (students must enroll in the GEOINT certificate program and complete the program to be eligible to have GEOG 320 and GEOG 325 counted towards computer science major requirements).	Yes	6
Science Electives: Select at least four credits in addition to core requirement from the following: BIOL 150 Or BIOL 160 Or BIOL 200 Or CHEM 141 And CHEM 142 Or CHEM 161 And CHEM 162 Or CHEM 220 Or CHEM 221 Or GEOG 320 Or GEOG 325 Or PHYS 121 Or PHYS 122 Or PHYS 211 Or PHYS 212 Or ZOOL 200 Or higher (students must enroll in the GEOINT certificate program and complete the program to be eligible to have GEOG 320 and GEOG 325 counted towards computer science major requirements).	Yes	4
Free Elective:	Check	3
Program Total:		81
Degree Total:		120

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