

Computer Science

PO Box 7883 Arkadelphia, AR 71999-0001

Bachelor of Science – Computer Science

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The following outlines those courses that are required for the Bachelor of Science degree in Computer Science. Of particular importance in the listing is the sequence of computer science and mathematics courses. Students deviating from the suggested listing should be aware of course prerequisites and that all courses are not conducted each semester. Consultation with an academic advisor in computer science is strongly recommended prior to making changes to the suggested course sequence.

First Semester Freshman

Cat. No.	Course	Hours
CSC 1104	Foundations I	4
CSC 1104L	Foundations I Lab	0
GEN 1031	Henderson Seminar	1
	English	3
	Physical Well Being	1
	Social Sciences	3
	Elective/Minor	3
	Total Hours	15

First Semester Sophomore

Cat. No.	Course	Hours
CSC 2173	Assembler Language	3
CSC 2203	Data Structures	3
MTH 1294	Calculus I	4
	Fine Arts & Humanities	3
	Social Sciences	3
	Total Hours	16

First Semester Junior

Cat. No.	Course	Hours
CSC 3193	Operating Systems	3
CSC 3463	Software Engineering	3
MTH 2283	Discrete Mathematics	3
ENG 3613	Technical Writing	3
	Non-Western Culture	3
	Total Hours	15

First Semester Senior

Cat. No.	Course	Hours
CSC 3433	Computational Complexity	3
CSC 3472	Technology & Society	2
CSC	Jr/Sr Computer Science	3
MTH	Jr/Sr Mathematics	3
	Science Sequence I	4
	Total Hours	15

Second Semester Freshman

Cat. No.	Cat. No. Course	
CSC 1114	Foundations II	4
CSC 1114L	Foundations II Lab	0
COM 2013	Oral Communications	3
	English	3
	Social Sciences	3
	Fine Arts & Humanities	3
	Total Hours	16

Second Semester Sophomore

Cat. No.	Cat. No. Course	
CSC 3223	Algorithm Analysis	3
CSC 3443	Computer Organization	3
MTH 2044	Calculus II	4
	Biological or Life Science	4
	Total Hours	14

Second Semester Junior

Cat. No.	Hours	
CSC 3133	Database Theory	3
CSC 3453	Programming Languages	3
CSC	Jr/Sr Computer Science	3
STA 2323	Statistical Methods	3
	Elective/Minor	3
	Total Hours	15

Second Semester Senior

Cat. No. Course		Hours
CSC 4483	Capstone	3
CSC	Jr/Sr Computer Science	3
COM 3813	Business & Prof. Comm.	3
	Elective/Minor	1
	Science Sequence II	4
	Total Hours	14

	Skills (13 hour				
Engli	ish (6 Hours) Required:	(Students mus ENG 1463	t pass English courses with a grade English A*	of "C" or above.)
	Choose One:	ENG 1403 ENG 1473	English B	ENG 1803	Honors English
			her on the English and Reading section a grade of "C" or above.	ns of the ACT will	be exempt from ENG 1463 after completion of 15 hours at Henderson with a 2.00 or higher GPA, a
Com	munication (3 Required:	hours) COM 2013	Oral Communication		
			orar ooninnanidatori		
Math	Choose One':	MTH 1033 MTH 1253	Mathematics for Liberal Arts Plane Trigonometry	MTH 1243 MTH 1273	College Algebra Precalculus Mathematics
			urse as sophisticated as College Alget e requirement of MTH1294 – Calculus		
Phys	sical Well-Bein	a (1 hour)			
	Choose One':	HPR 1011	Life Fitness Concepts	HPR 1xx1	PE Activity Course
		MSC 1011 THA 2022	Introduction to ROTC Ballet I	MSC 1021 THA 2012	Introduction to Leadership Theatre Dance I
		THA 2772	Jazz Dance I	THA 4552	Modern Dance
	* Alternatively, one	year or more of	active duty military service will satisfy	this requirement.	
demic	Enrichment (2	3 hours)			
	Arts and Hum		ours)		
	Choose One:	ENG 2013	World Literature I	ENG 2023	World Literature II
		ENG 2053	Studies in Literature	ENG 2793	Masters of Western Literature Honors
	Choose One:	ART 2033 HUM 2093	Humanities: Art Fine Arts Honors	ART 2603 MUS 2033	Humanities: Studio Art Humanities: Music
		THA 2033	Humanities: Theatre Arts		
Socia	al Sciences (9	hours)			
	Choose One:	HIS 1013	Civilization to 1660	HIS 1023	Civilization since 1660
	Choose One:	HIS 1043 HIS 2053	Civilization since 1660 Honors United States to 1877	HIS 1323 HIS 2063	Civilization to 1660 Honors United States since 1877
		PSC 1013	American National Government	PSC 1263	American National Government Honors
	Choose One':	ANT 2013 CRJ 2033	Intro. to Cultural Anthropology	CRJ 2013 ECO 2013	Intro to Criminal Justice System Macroeconomics
		ECO 2023	Intro. to Criminology Microeconomics	GEO 1023	Introduction to Geography
		GEO 2163	World Geography	PSC 1023 PSY 1013	State and Local Government
		PSC 2193 PSY 1073	Global Politics General Psychology Honors	SOC 1013	General Psychology Intro to Sociology
	[•] Or any Civilization	, US History, or	American National Government cours	e listed above not	used to fulfill another requirement.
Notu	ral Science (8	hours)			
Natu	Choose One:		21 Intro. to Biology (with lab)	BIO 2104	General Botany
		BIO 2114	General Zoology		
	Choose One:	CHM 1004 CHM 1034	Intro. to Chemistry General Chemistry Non-Majors	CHM 1014 CHM 1044	University Chemistry I General Organic and Biochemistry
		CHM 1234	Intro. to Forensic Chemistry	PHY 1024	Introduction to Astronomy
		PHY 2034	General Physics I	PHY 2234	University Physics I
	Note: The Compute requirement other the			niversity Chemistry	I/II, PHY 2034/2044 - General Physics I/II, or PHY 2234/2244 University Physics I/II fulfills this co
er (9 h	ours)				
Non-	Western Cultu	ire (3 hours	5)		Ward Cultures
	Choose One:	ANT 3043 ART 4103	North American Indians Art of the Nonwestern World	ANT 4053 BIO 4044	World Cultures Neotropical Ecology
		BIO 4324	Tropical Marine Biology	EDU 4543	Culturally Diverse Learners
		ENG 3043 GEO 3073	Nonwestern Literature Geography of Asia	GEN 4083 HIS 4253	Study Abroad: Non-Western African Kingdoms
		HIS 4273	Islam and the West	HIS 4303	Sex and Gender in Africa
		HIS 4343 HIS 4683	Africa in the American South The Modern Middle East	HIS 4673 HIS 4693	Asian Civilizations African History
		HPR 3973	History of Nonwestern Leisure	MUS 3473	Survey of Nonwestern Music
		NSG 3643	Trans-cultural Health Care	PHI 3023	Religions of the World
		PHI 4203 PSC 4233	Asian Philosophy Comp. Pol. in the Mid. East	PHY 4293 PSC 4243	Nonwestern Cosmology Comp. Politics in Africa
		PSC 4253 PSY 3053	South Asian Politics	PSY 3043	Cross-Cultural Psychology North American Indians
		SOC 4063	Multicultural Mental Health World Cultures	SOC 3043 THA 3483	North American Indians Theatre of the Nonwestern World
C	Elective /2 !	urs)	N. C. Martina	FRE 1013	French I (or higher level)
Core	Elective (3 ho Choose One:	FCS 2103	NUTRITION		
Core	Elective (3 ho Choose One':	FCS 2103 GER 1013	Nutrition German I (or higher level)	HUM 2153	Intro. Women's and Gender Studies
Core					

Writing Across the Curriculum Requirements (3 hours) Choose One: COM 4063 Magazine & Feature Writing

e One':	COM 4063	Magazine & Feature Writing	COM 4293	Creative Nonfiction	
	ENG 3313	University Writing	ENG 3613	Technical Writing	
	ENG 4453	Advanced Composition	HIS 3383	Writing History	
	NSG 3603	Healthcare Research			

Writing Intensive (WI) Requirement. While not part of the Liberal Arts Core, each student must take one additional 3000- or 4000- level writing intensive course in the major area of study. Approved courses are identified with "WI." The courses must be passed with a grade of "C" or above.
 Note: The Computer Science degree requirement of ENG 3613 – Technical Writing fulfills this core requirement.

Additional Requirements: (consult latest university catalog for most current requirements)
While not part of the Liberal Arts Core, GEN 1031 Henderson Seminar is required of all freshmen during the first semester. Students who fail the class have the option to retake it during their second semester. This course must be taken at the freshman level.
No more than seven (7) hours of "D" may be counted in the Liberal Arts Core.
In order to obtain a bachelor's degree, a minimum of 120 semester hours of work must be completed with a passing grade and a minimum GPA of 2.00 must be met on all work.
A total of forty-two (42) semester hours of credit must be earned from junior- and/or senior-level courses.