



Bachelor of Science in Computer Science
COMPUTER SCIENCE
2009-2010 Undergraduate Catalog
Degree Progression Plan

Freshman Year							
1st term				2nd term			
CS 126	Computer Science I	3		CS 136	Computer Science II	3	
CS 126L	Computer Science I Lab	1		CS 136L	Computer Science II Lab	1	
MAT 136	Calculus I (SCI: SAS)	4		MAT 137	Calculus II (FNRQ)	4	
LS	Liberal Studies **	3		ENG 105	Critical Reading and Writing (FNRQ)	4	
LS/DIV	Liberal Studies /Diversity *	3		SE	Science Elective with Lab (SCI: LAB) ***	4	
NAU 100	Transition to College	1					
Total units				Total units			
15				16			

Sophomore Year							
3rd term				4th term			
MAT 226	Discrete Mathematics	3		CENE 225 or STA 270 or STA 275	Engineering Analysis or Applied Statistics or Statistical Analysis	3	
CS 249	Data Structures	3		CS 200	Introduction to Computer Organization	3	
SE	Science Elective with Lab (SCI: SAS) ***	4		SE	Science Elective ***	4	
LS	Liberal Studies **	3		LS/DIV	Liberal Studies /Diversity *	3	
LS	Liberal Studies **	3		LS	Liberal Studies **	3	
Total units				Total units			
16				16			

Junior Year							
5th term				6th term			
CS 315	Automata Theory	3		CS 396	Principles Of Languages	3	
CS 386	Software Engineering	3		CS 480	Operating Systems	3	
CS 301	Social & Ethical Issues	1		MAT 316 or MAT 362	Linear Algebra or Numerical Analysis	3	
CSE	CS Elective ****	3		ENG 302W	Technical Writing	3	
CSE	CS Elective ****	3		CSE	CS Elective ****	3	
TE	Technical Elective +	3					
Total units				Total units			
16				15			

Senior Year							
7th term				8th term			
CS 421	Algorithms	3		CS 486C	Capstone Experience	4	
CSE	CS Elective ****	3		CSE	CS Elective ****	3	
CSE	CS Elective ****	3		TE	Technical Elective +	3	
TE	Technical Elective +	3		LS	Liberal Studies **	3	
LS	Liberal Studies **	3					
Total units				Total units			
15				13			

Liberal Studies Distribution blocks

AHI (6 units)	SPW (6 units)	CU (6 units)	Science (7 units)	Additional 3 units to reach 35 total
			Science elective (4)	
			Science elective (3)	

PROGRAM INFORMATION

A minimum of 120 units are required for this degree. This plan as written has 122 units.

You must earn a C or better in each required CS course; no more than one D is allowed in CS electives or Tech electives. A C or better must also be earned in any course listed as a prerequisite for any CS/EE/EGR/ME/CENE course you take.

*Take a Liberal Studies course that also satisfies a Diversity requirement.

** For ABET Accreditation requirements, 24 units are required in three of the liberal studies distribution blocks (Social and Political Worlds, Aesthetic and Humanistic Inquiry, and Cultural Understanding). At least 6 units must be completed in each category.

*** For Science electives chose one of the following blocks:

- PHY 161, PHY 262/262L & 4 additional units in AST, BIO, CHM, GLG or PHY
- CHM 151/151L, CHM 152/152L & 3 additional units in AST, BIO, CHM, GLG or PHY
- BIO 181/181L, BIO 182 & 4 additional units in AST, BIO, CHM, GLG or PHY (Be aware that BIO 182 is not a liberal studies course, so the additional science course must be an approved Lab Science or Science/Applied Science course.)

**** CS electives include 18 units of additional CS courses at the 300 level or above. (Other courses, such as MAT or EE may be substituted with the department chair's approval.)

+ Technical electives include 9 additional units from EE, MAT, PHY, CHM or BIO as well as CS courses at the 200 level or above. At least 3 units need to come from math or science. (Other courses may be substituted with your advisor's approval.)

GENERAL INFORMATION

- This degree progression plan is to be used in conjunction with the academic catalog and degree progress report.
- Students should see an academic advisor regularly to confirm their academic progress.
- Students must see an academic advisor before enrollment for the 7th term in preparation for graduation.
- Many courses have pre-requisites. Please check the academic catalog for pre-requisite and placement information.
- Submit graduation application during 7th term.
- Honors students complete different requirements to meet NAU's liberal studies program. Students should consult an Honors Program advisor for complete information on fulfilling Honors Liberal Studies requirements.
- All students are required to complete at least 120 total units which includes:
 - 35 units of liberal studies courses: <http://www4.nau.edu/aio/Articulation/LScourcelist.htm>
 - 6 units of diversity courses (3 units in Global & 3 units in Ethnic). The diversity requirement may be fulfilled in any part of the program of study: <http://www4.nau.edu/aio/Articulation/DiversityCourseList.htm>
 - 30 units of upper division courses (300-400 level), 18 of these units must be taken at NAU
- English placement: <http://www.nau.edu/comp/placement.html>
- Math placement: <http://www.cefns.nau.edu/Academic/Math/studentInformation/Placement/Placement.shtml>

CONTACT INFORMATION

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