NORTHERN ARIZONA UNIVERSITY
College of Engineering & Natural Sciences

Bachelor of Science in Computer Science
COMPUTER SCIENCE
2008-2009 Undergraduate Catalog

Degree Progression Plan

Freshman Year							
1st term				**2nd term**			
CS 126	Introduction to Computer Science	3		CS 136	Software Techniques	3	
CS 126R	Introduction to Computer Science Recitation	1		MAT 137	Calculus II (FNRQ)	4	
MAT 136	Calculus I (SCI: SAS)	4		ENG 105	Critical Reading and Writing (FNRQ)	4	
LS	Liberal Studies **	3		SE	Science Elective with Lab (SCI: LAB) ***	4	
LS/DIV	Liberal Studies /Diversity *	3					
FYE 101	First Year Experience	1					
	Total units	15			Total units	15	

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	16			Total units	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	16			Total units	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	15			Total units	13	

- 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.

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

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 161/161L, 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 courses from EE, MAT, PHY, CHM or BIO as well as CS courses at the 200 level or above. (Other courses may be substituted with your advisor's approval.)

GENERAL INFORMATION

- 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/LScourselist.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.math.nau.edu/placement.html

CONTACT INFORMATION

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