NORTHERN ARIZONA UNIVERSITY
College of Engineering & Natural Sciences

Bachelor of Science in Computer Science
COMPUTER SCIENCE
2006-2007 Undergraduate Catalog

Degree Progression Plan

Freshman Year							
1st term				2nd term			
CS 126	Introduction to Computer Science	3		CS 136	Software Techniques	3	
MAT 136	Calculus I (SAS)	4		MAT 137	Calculus II (FNRQ)	4	
LS	Liberal Studies **	3		ENG 105	Critical Reading and Writing (FNRQ)	4	
LS	Liberal Studies **	3		SE	Science Elective with Lab (LAB) ***	4	
LS/DIV	Liberal Studies /Diversity *	3					
FYE 101	First Year Experience	1					
	Total units	17			Total units	15	

Sophomore Year							
3rd term				4th term			
MAT 226	Discrete Mathematics	3		CENE 225 or STA 270	Engineering Analysis or Applied Statistics	3	
CS 200	Introduction to Computer Organization	3		CS 249	Data Structures	3	
SE	Science Elective with Lab (SAS) ***	4		*SE*	Science Elective ***	4	
LS	Liberal Studies **	3		*LS/DIV*	Liberal Studies /Diversity *	3	
				LS	Liberal Studies **	3	
	Total units	13			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	Tech Elective *****	3					
	Total units	16			Total units	15	

Senior Year							
7th term				8th term			
CS 421	Algorithms	3		CS 486C	Capstone Experience	5	
CSE	CS *Elective* ****	3		CSE	CS *Elective* ****	3	
CSE	CS *Elective* ****	3		*TE*	Tech Elective *****	4	
TE	Tech Elective *****	3		*LS*	Liberal Studies **	3	
LS	Liberal Studies **	3					
	Total units	15			Total units	15	

- 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.

*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 hours must be completed in two of the three categories.

*** 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 10 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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