NORTHERN ARIZONA UNIVERSITY
College of Engineering & Natural Sciences

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

Degree Progression Plan

Freshman Year							
1st term				**2nd term**			
CS 110	Introduction to Computer Science *	3		CS 126	Computer Science I *	3	
MAT 125 or MAT 136	Precalculus or Calculus I (FNRQ) **	4		CS 126R	Computer Science I Recitation	1	
LAN	Modern Language (CU) **/++	4		SE	Science Elective with Lab (SCI: LAB) **/****	4	
LS/DIV	Liberal Studies/ Diversity ***	3		*LAN*	Modern Language (CU) **/++	4	
FYE 101	First Year Experience	1		ENG 105	Critical Reading and Writing (FNRQ)	4	
	Total units	15			Total units	16	

Sophomore Year							
3rd term				**4th term**			
CS 136	Computer Science II *	3		CS 248	Foundations of Computer Science *	3	
MAT 226	Discrete Mathematics **	3		CS 249	Data Structures *	3	
SE	Science Elective (SCI: SAS) **/****	3		*SE*	Science Elective (SCI:SAS) **/****	3	
TE	Technical Elective **/+++	3		*LAN*	Modern Language (CU) **/++	4	
LAN	Modern Language (CU) **/++	4		*LS/IA*	Liberal Studies /International Awareness **/+	3	
	Total units	16			Total units	16	

Junior Year							
5th term				**6th term**			
CS 200	Introduction to Computer Organization *	3		CS 480	Operating Systems *	3	
CS 386	Software Engineering *	3		ENG 302W	Technical Writing	3	
CS 301	Social & Ethical Issues *	1		CENE 225 **or** STA 270 **or** STA 275	Engineering Analysis or Applied Statistics or Statistical Analysis **	3	
TE	Technical Elective **/+++	3		CSE	CS *Elective* **/++++	3	
CSE	CS *Elective* **/++++	3		CSE	CS *Elective* **/++++	3	
IA	International Awareness **	3					
	Total units	16			Total units	15	

Senior Year							
7th term				**8th term**			
CS 345	Databases *	3		CS 476C	Applied Capstone Design *	4	
CSE	CS *Elective* **/++++	3		CSE	CS *Elective* **/++++	3	
CSE	CS *Elective* **/++++	3		*TE*	Technical Elective **/++++	3	
TE	Technical Elective **/+++	3		*LS/IA*	Liberal Studies/International Awareness **/+	3	
LS/DIV	Liberal Studies/Diversity ***	3					
	Total units	15			Total units	16	

Liberal Studies Distribution blocks

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

Revised 1/2/2008

PROGRAM INFORMATION

A minimum of 120 units are required for this degree. This progression plan totals 125 but can be completed with less units if the student multiple uses International Awareness, Liberal Studies and Diversity.

*You must earn a C or better in each required CS course.

**You may have no more than two D's in pre-professional and professional course.

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

**** Science electives include: 4 units of a Lab Science and 6 units of a Science/Applied Science for a total of 10 units.

+ Take a Liberal Studies course in SPW or AHI that also satisfies the International Awareness requirement

International Awareness Courses include 9 units from the following list. Courses that also satisfy liberal studies or diversity are indicated in ( ) with their appropriate distribution block.
POS 120 (CU), POS 201(SPW), ANT 102 (CUG), ANT 103 (CUG), REL 150(CUG), GGR 240 (SPW), GGR 241 (SPW), GGR 370W, POS 360 (SPW), POS 380 (SPW), POS 480, POS 482, ECO 483, ECO 486, HUM 261 (CUG), HUM 281 (CUG), HUM 382 (AHI), CENS 396 or other internationally relevant courses with the department chair's approval

++ 16 units of a modern language is required and at least two semesters must be of the same language

+++ Technical electives include 12 additional units chosen with your advisor from EE, MAT, PHY, CHM, GGR and BIO as well as from CS elective courses at the 200 level or above. (Other courses may be substituted with the department chair's approval.)

++++ CS electives include 18 units of additional CS courses at the 300 level or above, chosen with your academic advisor. (You may also petition to substitute other courses, such as MAT or EE with the department chair'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/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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