



NORTHERN ARIZONA UNIVERSITY

V.2

College of Engineering, Forestry, and Natural Sciences
Computer Science Bachelor of Science in Computer Science

2013-2014

2012-2013 Undergraduate Catalog

Four Year Progression Plan

Sample Progression Plans are for planning purposes only; see the catalog for official details.

Year 1 - Fall		
CS 126	Computer Science I	3
CS 126L	Computer Science I Lab	1
MAT 136	Calculus I	4
LIBST COURSE	Liberal Studies Course	3
LS/DIV COURSE	Liberal Studies/Diversity Course	3
NAU 100	Transition To College	1

Year 1 - Spring		
CS 136	Computer Science II	3
CS 136L	Computer Science II Lab	1
MAT 137	Calculus II	4
ENG 105	Critical Read/Writing In Univ	4
SCI/LAB ELECTIVE	Science Elective with Lab	4

Year 2 - Fall		
CS 249	Data Structures	3
MAT 226	Discrete Mathematics	3
SCI ELECTIVE	Science Elective	4
LIBST COURSE	Liberal Studies Course	3
LIBST COURSE	Liberal Studies Course	3

Year 2 - Spring		
CS 200	Intro To Computer Organization	3
CS ELECTIVE	Computer Science Elective	3
CS ELECTIVE	Computer Science Elective	3
Choose one of the options below:		
Option: A		
CENE 225	Engineering Analysis	3
Option: B		
STA 270	Applied Statistics	3
Option: C		
STA 275	Statistical Analysis	3
LS/DIV COURSE	Liberal Studies/Diversity Course	3

Year 3 - Fall		
CS 212	Web Programming	3
CS 301	Ethics In Computer Science	2
CS 315	Automata Theory	3
CS ELECTIVE	Computer Science Elective	3
TE COURSE	Technical Elective	3
ENG 302W	Technical Writing	3
Engineering program fee assessed		

Year 3 - Spring		
CS 386	Software Engineering	3
CS 396	Principles Of Languages	3
CS 480	Operating Systems	3
Choose one of the options below:		
Option: A		
MAT 316	Introduction To Linear Algebra	3
Option: B		
MAT 362	Intro To Numerical Analysis	3
CS ELECTIVE	Computer Science Elective	3
Engineering program fee assessed		

Year 4 - Fall		
CS 421	Algorithms	3
CS 476	Requirements Engineering	2
CS ELECTIVE	Computer Science Elective	3
CS ELECTIVE	Computer Science Elective	3
TE COURSE	Technical Elective	3
Submit graduation application this term.		
Engineering program fee assessed		

Year 4 - Spring		
CS 486C	Capstone Experience	4
CS ELECTIVE	Computer Science Elective	3
TE COURSE	Technical Elective	3
LIBST COURSE	Liberal Studies Course	3
Engineering program fee assessed		

University Requirements Specified by Major	
Foundation Requirements:English (FNRO:ENG)	ENG 105 (4)
Foundation Requirements:Math (FNRO:MAT)	MAT 137 (4)
Science/Applied Science (SAS/LAB)	MAT 136 (4)
Liberal Studies Elective	MAT 226 (3)

PROGRAM INFORMATION

A minimum of 120 units is required for this degree. ~~This plan as written has 121 units.~~
You must earn a C or better in all required CS course and no more than one D is allowed in CS electives or Tech electives. Up to six units of letter-graded individualized study classes (e. g., CS 485 or CS 497) are allowed.

* For Science electives choose one of the following blocks:

- PHY 161(lab included), PHY 262 (7 units)
- CHM 151/151L, CHM 152 (8 units)
- BIO 181/181L, BIO 182/182L (8 units)

** Technical electives include 9 additional units from Engineering disciplines (EGR, EE, ME, CENE), Natural Sciences (MAT, PHY, CHM, BIO), and CS courses at the 200 level or above (excluding CS 248). At least 3 units need to come from the natural science block. (Please note that you may use courses with other prefixes with your advisor's approval.)

*** CS electives include 21 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.)

CONTACT INFORMATION

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① CS 200 Intro to Computer Organization (3)

② SCI Elective Science Elective (4)