





COMPUTER SCIENCE MINOR REQUIREMENTS			
COURSE NO	COURSE TITLE	PREREQUISITE	CR
CS 1400*	Fundamentals of Programming	MAT 1000 or 1010. CS 1030 recommended	3.0
CS 1410*	Object-Oriented Programming	CS 1400	3.0
CS 2420*	Intro to Algorithms and Data Structures	CS 1410	3.0
ELECTIVE REQUIREMENTS			
Complete at least three CS courses numbered 3060 or higher (9 credits)			
CS 3060 Operating Systems Theory (3)		CS 2420, 2810, UAS [COSC or Computer Engineering Major]	
CS 3240 Discrete Mathematical Structures II (3)		CS 2810, COSC, UAS	
CS 3250 Java Software Development (3)		COSC, UAS	
CS 3260 C#.NET Software Development (3)		COSC, UAS	
CS 3270 Python Software Development (3)		COSC, UAS	
CS 3310 Analysis of Algorithms (3)		CS 2810, MATH 1210, COSC, UAS	
CS 3320 Numerical Software Development (3)		CS 2810, MATH 1210, COSC, UAS	
CS 3370 C++ Software Development (3)		CS 2810, COSC, UAS	
CS 3410 Human Factors in Software Development (3)		CS 3250 or 3260 or 3370, UAS	
CS 3450 Principles & Patterns of Software Design (3)		CS 3250 or 3260 or 3270 or 3370, UAS	
CS 3520 Database Theory (3)		COSC, UAS	
CS 3540 Game Programming (3)		CS 2420, UAS	
CS 3660 Web Programming II (3)		CS 2420 & 2550, (CS 3250 or 3260 or 3270 or 3370), UAS	
CS 3670 Network Programming (3)		CS 2690, 3250, UAS	
CS 3680 Mobile Device Programming (3)		COSC, UAS	
CS 3720 Database Programming (3)		CS 3520, UAS	
CS 4100 Database Management System Construction (3)		CS 3520, (CS 3250 or 3260), UAS	
CS 4230 Software Testing and Quality Engineering (3)		CS 2450, ECE 3710, (CS 3250 or 3260 or 3270 or 3370), UAS	
CS 4260 Digital System Simulation (3)		CS 3060, ECE 3710, (CS 3250 or 3260 or 3270 or 3370), UAS	
CS 4380 Advanced/High-Performance Computer Architecture (3)		CS 3060, (CS 3370 rec.) UAS	
CS 4400 Software Engineering II (3)		CS 2450, 2600, 3520, (CS 3250 or 3260 or 3270 or 3370), UAS.	
CS 4440 Applied 3D Graphics (3)		CS 2420, (CS 3250 or 3260 or 3270 or 3370), UAS	
CS 4450 Analysis of Programming Languages (3)		CS 3240, (CS 3250 or 3260 or 3270 or 3370), UAS	
CS 4470 Artificial Intelligence (3)		CS 3240, 3310, 3320, (CS 3250 or 3260 or 3270 or 3370), UAS	
CS 4480 Digital Image Processing & Computer Vision (IPCV) (3)		CS 3320, UAS	
CS 4490 Compiler Construction (3)		CS 4380, 4450, UAS	
CS 4500 Advanced Topics in Database (3)		CS 3520, or INFO 3410, UAS	
CS 4510 Operating Systems Design & Simulation (3)		CS 4380, UAS	
CS 4550 Software Engineering III (3)		CS 4230, 4400, UAS	
CS 4610 TCP/IP Internet Architecture (3)		CS 2690, COSC, UAS	
CS 4620 Data Mining (3)		CS 3520, UAS	
CS 4670 Undergraduate Research Project - Networking Specialization (3)		CS 3660, 4610, UAS	
CS 4690 Distributed Internet Application Development(3)		CS 3670, 3660, (CS 3250 or 3260 or 3270 or 3370), UAS	9.0
CS 4770 Software Development for Robotics (3)		CS 3370. CS 4470 rec., UAS	
Total Credits Required for Minor			18.0

UAS University Advanced Standing: Completion of min of 24 credits of 1000 or higher, completion of ENGL 2010 & MATH 1050 or higher, & min 2.0 GPA.  
COSC: Matriculation into Advanced Standing required: (CS 1400, 1410, 2300, 2420 Min grade C+) & (MATH 1210, ENGL 1010 Min grade C). Each class may not be repeated more than once.

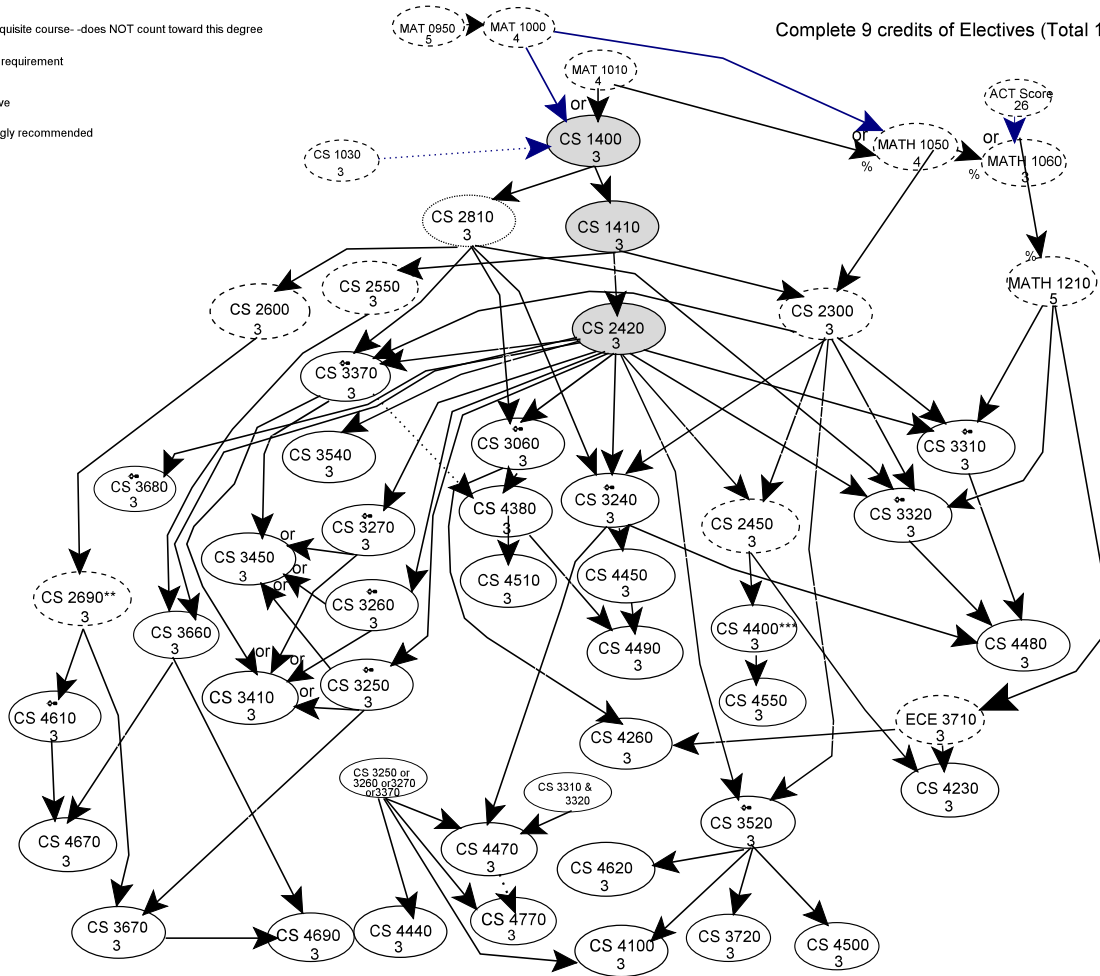
**GRADUATION REQUIREMENTS:**

To fill the requirements for a Computer Science Minor, students must have no course grade lower than C- in any of the CS courses required for the minor.  
Minimum cumulative GPA of 2.0 required.

# MINOR COMPUTER SCIENCE

-  Prerequisite course--does NOT count toward this degree
-  Major requirement
-  Elective
-  Strongly recommended

Complete 9 credits of Electives (Total 18 Credits for CS Minor)



\*\* CS 2690 Prerequisites: CS 2300, 2600

\*\*\* CS 4400 Prerequisites: CS 2450, 2600, 3520, upper division programming language. Pre or Corequisite: CS 3450

UAS: University Advanced Standing: Completion of min of 24 credits of 1000 or higher, Completion of ENGL 2010 & MATH 1050 or higher, & Min 2.0 GPA -is prerequisite to all classes 3000 or higher

\*COSC: Matriculation into Advanced Standing required: (CS 1400, 1410, 2300, 2420 Min grade C+) &(MATH 1210, ENGL 1010 Min grade C). Each class may not be repeated more than once

%Minimum grade of C taken within the last two years required as prerequisite to MATH classes.

Type 35 Words Per Minute is recommended for all CS classes.