SOFTWARE DEVELOPMENT CORE REQUIREMENTS

COURSE NO	COURSE TITLE	PREREQUISITE	CR	
CS 1400	Fundamentals of Programming	MAT 1010 or 1015 with a B or higher, or ACT 23+ or ALEKS 38+. CS 1030 recommended	3.0	F,Sp,Su
CS 1410	Object-Oriented Programming	CS 1400 and (MATH 1050 or MATH 1055 with a C+ or better, or MATH above 1050)	3.0	F,Sp,Su
CS 2300	Discrete Mathematical Structures I	CS 1410 and (MATH 1050 or higher)	3.0	F,Sp
CS 2370	C plus plus Programming WE	CS 1410	3.0	F,Sp,Su
CS 2420	Intro to Algorithms and Data Structures	CS 1410	3.0	F,Sp,Su
CS 2450	Software Engineering	CS 2300 & 2420		
CS 2550	Web Programming I	CS 1410	3.0	F,Sp
CS 2600	Computer Networks I	CS 2810	3.0	F,Sp
CS 2810	Computer Organization and Architecture	CS 1400	3.0	F,Sp,Su
CS 305G	Global Social & Ethical Issues in Computing	ENGL 2010 & CS 1400	3.0	F, Sp
CS 3060	Operating Systems Theory	CS 2420, 2810, UAS, COSC	3.0	F, Sp
CS 3450	Principles and Patterns of Software Design	(CS 3250 or 3260 or 3270 or 3370) & UAS	3.0	F, Sp
CS 3520	Database Theory	COSC & UAS	3.0	F,Sp,Su
CS 3660	Web Programming II	CS 2420, CS 2550, and one of (CS 3250 or 3260 or 3270 or 3370) & UAS	3.0	F, Sp
CS 3250 **or** CS 3260 **or** CS 3270 **or** CS 3370 **or** CS 3380	Java Software Development CsharpNET Software Development Python Software Development C++ Software Development JavaScript Software Development	CS 2420, COSC & UAS COSC & UAS CS 2420 (or INFO 2200), COSC & UAS CS 2370, 2810, COSC, & UAS CS 2420, 2550, COSC, & UAS	3.0	F F, Sp Sp F, Sp F, Sp
CS 3410 **or** CS 3680 **or** CS 481R	Human Factors in Software Developmnt Mobile Device Programming Internship	(CS 3250 or 3260 or 3370 or INFO 2200) & UAS COSC & UAS COSC & UAS	3.0	F F, Sp
CS Elective	Any CS course 3000 level or above		3.0	F,Sp,Su
Extra Major Specializations				
Specialization	Upper Division	16 Upper Division @3000 or higher courses other than CS or SWEG	16.0	
Specialization	Lower Division	17 Lower Division @2000 or lower courses other than CS or SWEG	17.0	

Minimum grade of "C-" required.

UAS - University Advanced Standing Requirement: Before students can register for upper-division coursework (3000 or higher), they must qualify for University Advanced Standing (UAS) by:

• Completing, and/or transferring in, at least 24 credits of college-level coursework (1000 or higher);

• Having a cumulative GPA of 2.0 or higher;

• Complete Quantitative Literacy, (MAT 1030 or higher) and ENGL 2010 or equivalent.

NOTE: For each of the following, a maximum of three hours may be counted towards graduation without prior written CS Department approval: CS 339R, CS 439R, CS 479R, CS 481R, CS 489R, CS 491R, and CS 496R.

ADVISOR SITE: https://www.uvu.edu/cet/advising/departments/cs.html

GENERAL EDUCATION REQUIREMENTS

COURSE #	COURSE TITLE	PREREQUISITE	CR
ENGL 1010	Introduction to Writing	ENGH 1000 with C- or higher (or appropriate test scores within 5 years)	3.0
ENGL 2010	Intermediate Writing	ENGH 1010 with C- or higher (or appropriate test scores within 5 years)	3.0
Quantitative Literacy	Math 1050 or 1055	Within the past two years one of the following: MAT 1000 or MAT 1010 w/ a grade of C or better or = math placement score.	4.0
American Institutions: HIST 1700 American Civilization or HIST 1740 US Economic History or POLS 1000 American Heritage or POLS 1100 American National Gov't or (HIST 2700 & HIST 2710 US History)			3.0
HLTH1100 or PES1097	Personal Health & Wellness or Fitness for Life		2.0
PHIL 2050	Ethics & Values	ENGL 1010. ENGL 2010 highly recommended	3.0
HUMANITIES DISTRIBUTION—See Wolverine Track for list			3.0
THIRD SCIENCE DISTRIBUTION—See Wolverine Track for list			3.0
FINE ARTS DISTRIBUTION—See Wolverine Track for list			3.0
BIOLOGY SCIENCE DISTRIBUTION—See Wolverine Track for list			3.0
Total Credits Required for Degree:			120

* Minimum grade of "C-" Required in courses marked with asterisk

GRADUATION REQUIREMENTS:

1. Completion of a minimum of 120 semester credits, with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 or above. Approved matriculation. Combined GPA of 2.5 or higher in all remaining discipline core and emphasis requirements and the General Education requirements marked with an asterisk.
3. Residency hours - - minimum of 30 credit hours through course attendance at UVU.
10 of these hours must be within the last 45 hours earned.
At least 12 of the credit hours earned in residence must be in approved CS Department courses.
4. All transfer credit must be approved in writing by UVU.
5. No more than 80 semester hours and no more than 20 hours in CS type courses of transfer credit from a two-year college.
6. No more than 30 semester hours may be earned through independent study and/or extension classes.
7. Successful completion of at least one Global/Intercultural course. CS 305G satisfies this requirement.