Fall 2023 Catalog Year

COLLEGE OF ENGINEERING & TECHNOLOGY
COMPUTER SCIENCE _OGY DEPARTMENT
BACHELOR OF SCIENCE DEGREE
Computer Science Education

Course No.	Course Title	Prerequisite	CR	Semester offered
General Education Requirements				
ENGL 1010 or	Introduction to Writing	Appropriate placement score	3	Fa/ Sp/ Su
ENGH 1005	Literacies and Composition	ENGH 0890 or appropriate placement score	5	Fa/ Sp/ Su
ENGL 2010	Intermediate Writing	ENGL 1010 or ENGL 101H w/ grade of C- or better in the last 3 years	3	Fa/ Sp/ Su
MATH 1050 or	College Algebra or	MAT 1000 or MAT 1010 w/ grade of C or better w/in the past 2 years; or	4	Fa/ Sp/ Su
MATH 1055	College Algebra with Preliminaries	Appropriate placement by the ALEKS placement test: 38-45	5	Fa/ Sp/ Su
American Institutions: Complete one of the following:			3	
HIST 2700 &	US History to 1877			Fa/ Sp/ Su
HIST 2710	US History since 1877			
HIST 1700	American Civilization			Fa/ Sp/ Su
HIST 1740	US Economic History			Fa/ Sp/ Su
POLS 1000	American Heritage			Fa/ Sp/ Su
POLS 1100	American National Government			Fa/ Sp/ Su
Complete the following:				
PHIL 2050	Ethics and Values	ENGL 1010 w/ grade C- or better	3	Fa/ Sp/ Su
HLTH 1100 or	Personal Health and Wellness **or**		2	Fa/ Sp/ Su
EXSC 1097	Fitness for Life		2	Fa/ Sp/ Su
Distribution Courses: (see catalog for list of approved courses)				
Humanities Distribution			3	Fa/ Sp/ Su
Fine Arts Distribution			3	Fa/ Sp/ Su
Social/Behavioral Science Distribution			3	Fa/ Sp/ Su
Biology Distribution			3	Fa/ Sp/ Su
Physical Science Distribution			3	Fa/ Sp/ Su
3rd Science Distribution: An Additional Biology or Physical Science Distribution Course			3	Fa/ Sp/ Su
General Education Requirements Total Credits			**36**	
Computer Science Education Requirements				
BMED 4300	Methods of Teaching Computer Science	(INFO 1120 or CS 1030) and (INFO 1200 or CS 1400) and UAS	3	
CS 1400	Fundamentals of Programming	MAT 1010 or 1015 w/B or higher, or ACT 23+ or ALEKS 38+	3	Fa/ Sp/ Su
CS 1410	Object Oriented Programming	CS 1400 and (MATH 1050 or MATH 1055 with a C+ or higher, or MATH above 1050)	3	Fa/ Sp/ Su
CS 2300	Discrete Mathematical Structures I	CS 1410 and (MATH 1050 or higher)	3	Fa/ Sp/ Su
CS 2370	C++ Programming	CS 1410	3	Fa/ Sp/ Su
CS 2420	Introduction to Algorithms and Data Structures	CS 1410	3	Fa/ Sp/ Su
CS 2450	Software Engineering	CS 2300, CS 2420	3	Fa/ Sp/ Su
CS 2550	Web Programming I	CS 1410 or INFO 1200 or DGM 2760	3	Fa/ Sp/ Su
CS 2600	Computer Networks I	CS 2810 or (INFO 1200 & IT 1600)	3	Fa/ Sp
CS 2810	Computer Organization and Architecture	CS 1400	3	Fa/ Sp/ Su
CS 305G	Global Social & Ethical Issues in Computing	ENGL 2010 & (CS 1030 or CS 1400 or INFO 1120)	3	Fa/ Sp/ Su
CS 3100	Data Privacy and Security	CS 2420 & UAS	3	Fa/ Sp
CS 3250 or CS 3260 or CS 3270 or CS 3370 or CS 3380	Java Software Development or CsharpNET Software Development or Python Software Development or C++ Software Development or JavaScript Software Development	CS 2420, matriculation & UAS Matriculation & UAS CS 2420 (or INFO 2200), matriculation & UAS CS 2370, CS 2810, matriculation, & UAS CS 2420, CS 2550, matriculation, & UAS	3	F/ Sp F/ Sp/ Su F/ Sp F/Sp F/Sp
CS 3450	Principles and Patterns of Software Design	(CS 3250 or 3260 or 3270 or 3370) & UAS	3	Fa/ Sp
DGM 1110	Digital Media Essentials		4	Fa/ Sp/ Su
DGM 1220	Digital Design Essentials		3	Fa/ Sp/ Su
DGM 2120	Web Essentials		3	Fa/ Sp/ Su
EDSC 1010	Introduction to Education		2	Fa/ Sp
EDSC 3000	Educational Psychology	Matriculation in ED program and UAS	3	Fa/ Sp
EDSC 325G	Equitable Technology Integration	Matriculation in ED program and UAS	2	Fa/ Sp/ Su
EDSC 4200	Classroom Management I	Matriculation in ED program and UAS	2	Fa/ Sp
EDSC 4250	Classroom Management II	Matriculation in ED program and UAS; coreq: EDSC 4850 and EDSC 4990	2	Fa/ Sp
EDSC 4440	Content Area Literacies	Matriculation in ED program and UAS	3	Fa/ Sp
EDSC 445G	Multicultural Instruction ESL	Matriculation in ED program and UAS	3	Fa/ Sp/ Su
EDSC 455G	Secondary Curriculum Instruction and Assessment	Matriculation in ED program and UAS	3	Fa/ Sp

EDSC 4850	Student Teaching Secondary	Matriculation in ED program and UAS; completion of all other coursework	8	Fa/ Sp
EDSC 4990	Teacher Performance Assessment Project	Matriculation in ED program and UAS; completion of all other coursework; coreq: EDSC 4250 and EDSC 4850	2	Fa/ Sp
EDSP 340G	Exceptional Students		2	Fa/ Sp/ Su
		CSED Total Credits	**84**	
		BS in Computer Science Education Total Credits	**120**	

Graduation Requirements	
1.	Completion of at least 120 semester credits required in the BS degree; **at least 40 credit hours must be upper-division courses.**
2.	Overall grade point average 3.0 or above with no grade lower than a "C" in content area courses.
3.	Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4.	Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5.	Successful completion of at least one Global/Intercultural course.