



COLLEGE OF TECHNOLOGY AND COMPUTING
COMPUTER SCIENCE DEPARTMENT
ASSOCIATE IN APPLIED SCIENCE DEGREE
COMPUTER SCIENCE

Catalog year 2017-2018 **COMPUTING & NETWORKING SCIENCES EMPHASIS**

COURSE NO	COURSE TITLE	PREREQUISITE	CR
CS 1400*	Fundamentals of Programming	MAT 1000 or MAT 1010. CS 1030 recommended	3.0
CS 1410*	Object-Oriented Programming	CS 1400	3.0
CS 2300*	Discrete Mathematical Structures I	CS 1410, MATH 1050	3.0
CS 2420*	Intro to Algorithms and Data Structures	CS 1410	3.0
CS 2600*	Computer Networks I	CS 2810 or (INFO 1200 & IT 1600)	3.0
CS 2690*	Computer Networks II	CS 2300, 2600, MATH 1210	3.0
CS 2810*	Computer Organization and Architecture	CS 1400	3.0
CS 3060*	Operating Systems Theory	CS 2420, 2810, UAS [COSC or Computer Engineering Major]	3.0
CS 3250* or 3260* or 3270* or 3370*	Java Software Development C#.NET Software Development Python Software Development C++ Software Development	COSC, UAS COSC, UAS COSC, UAS CS 2810, COSC, UAS	3.0
CS 3520*	Database Theory	COSC, UAS	3.0
ENGL 1010	Introduction to Writing	ENGL 1000 with C- or higher (or appropriate test scores within 3 years)	3.0
HUMANITIES/FINE ARTS (COMM 1020* recommended)			3.0
COMM 2110*	Interpersonal Communications		3.0
MATH 1060*	Trigonometry	MATH 1050 (Min. grade of C) (within two years)	3.0
BIOLOGY (select from approved list) or PHYS 2210* Physics for Scientists and Engineers I (4)		MATH 1210 Corequisite: PHYS 2215	3.0
PHYSICAL EDUCATION/HEALTH (HLTH 1100 or PES 1097 recommended)			1.0
Complete a minimum of 18 credits from the following* CS 1030 Foundations of Computer Science CS 3250 Java Software Development (3) CS 3370 C++ Software Development (3) CS 2450 Software Engineering (3) CS 2550 Web Programming I (3) CS 281R Internship (3) CS 3260 C#.NET Software Development (3) CS 3410 Human Factors in Software Engineering (3) CS 3660 Web Programming II (3) CS 3670 Network Programming (3) CS 4470 Artificial Intelligence (3) CS 4610 TCP/IP Internet Architecture (3) ECE 2700 & 2705 Digital Design I & Lab (4) ECE 3750 Engineering Analysis (3) IT 1510 Introduction to System Administration Linux/UNIX (3) IT 3510 System Administration Linux/UNIX(3) MATH 1210 Calculus I (5) MATH 1220 Calculus II (5) PHYS 2215 Physics for Scientists & Engineers I Lab (1)		CS 2420, UAS CS 2300, 2420, UAS CS 2300, 2420 CS 1410 CS Department approval CS 2420, UAS (CS 3250 or 3260 or 3270 or 3370 or INFO 2200), UAS CS 2420, 2550, 3520, (CS 3250 or 3260 or 3270 or 3370), UAS CS 2690, 3250, UAS CS 3240, 3310, 3320, (CS 3250 or 3260 or 3270 or 3370), UAS CS 2690, UAS MATH 1050, ECE 1020, MATH 1220, UAS INFO 1120 recommended IT 1510, CS 1400 & (CS 2600 or IT 2600), (min C- within 5 yrs), UAS MATH 1050 & 1060 (Min. grade of C) (within two years) MATH 1210 (Min. grade of C) PHYS 2210 concurrent	18.0
Total Credits Required for A.A.S. Degree			64.0

* NOTE: Minimum grade of "C-" required in these and all courses marked with asterisk*. Minimum cumulative GPA of 2.0 required.
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.

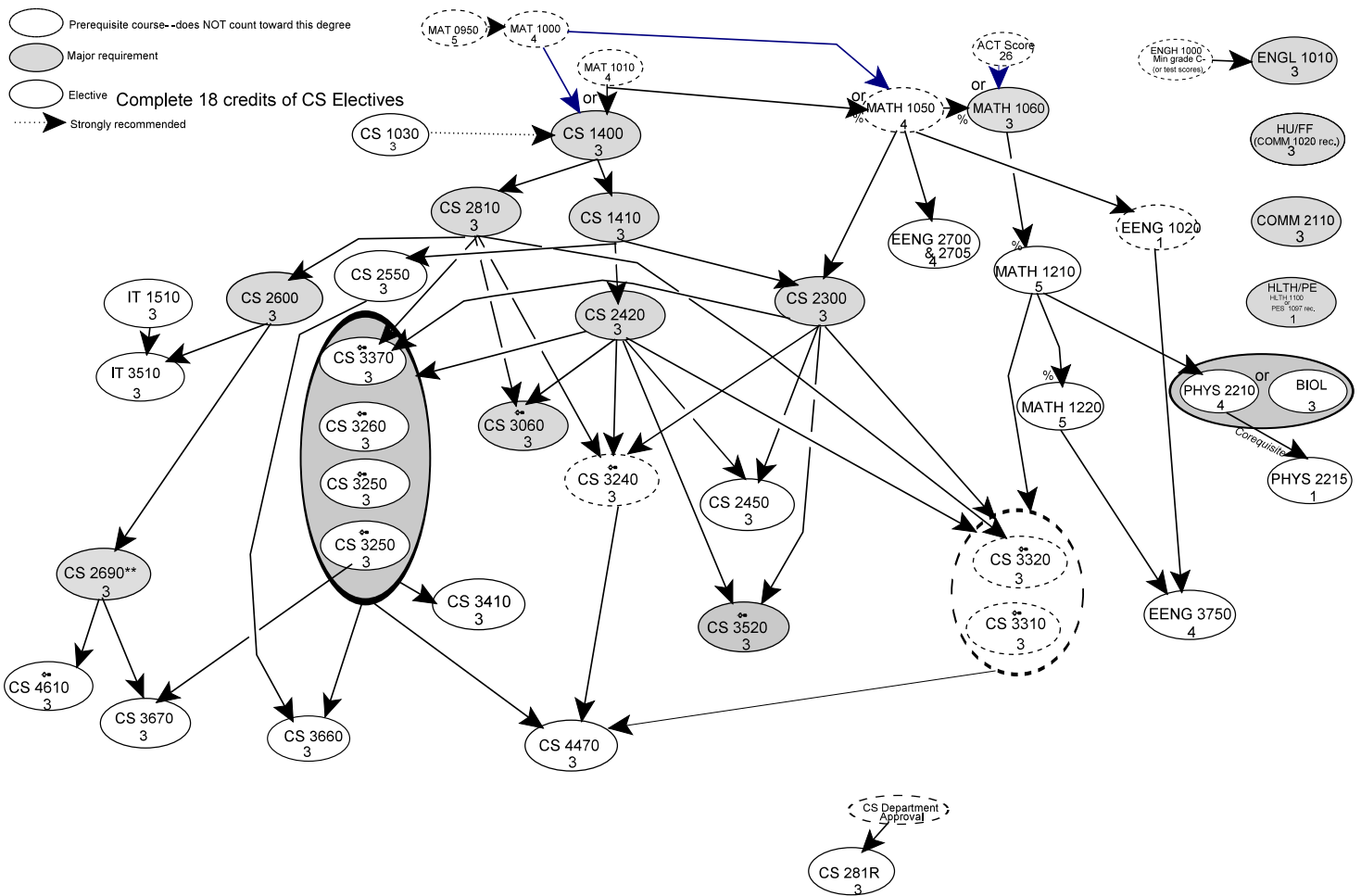
Residency hours - - minimum of 20 credit hours through course attendance at UVU required.

◆ NOTE: Students planning to continue on for a Bachelor's Degree should work closely with a CS Advisor.

ASSOCIATE IN APPLIED SCIENCE DEGREE COMPUTER SCIENCE COMPUTING and NETWORKING SCIENCES EMPHASIS

Following is a diagram of a sequence which may be followed to complete the A.A.S. Degree. Students should be aware that not all courses are taught every semester and that some courses require prerequisites. (Prerequisites that are not major requirements are listed inside the dotted lines.) The UVU catalog contains the descriptions and prerequisites for all courses.

Students should coordinate closely with the Computer Science advisors to avoid needing courses in semesters in which they are not taught.



** CS 2690 Prerequisites: CS 2300, 2600

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.