

ASSOCIATE IN SCIENCE DEGREE

Catalog year 2017-2018 COMPUTER SCIENCE

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 2300*	Discrete Mathematical Structures I	CS 1410, MATH 1050	3.0
CS 2420*	Intro to Algorithms and Data Structures	CS 1410	3.0
CS 2810*	Computer Organization and Architecture	CS 1400	3.0
MATH 1210*	Calculus I	MATH 1050 & 1060 (Min. grade of C) (within two years)	5.0
CS 2450* or CS 2600* or MATH 1220*	Software Engineering (3) Computer Networks I (3) Calculus II (5)	CS 2300, 2420 CS 2810 MATH 1210 (Min. grade of C)	3.0
*Total Core Requirements (must be completed with a minimum grade of "C-")			25.0
ENGL 1010	Introduction to Writing	ENGL 1000 with C- or higher (or appropriate test scores within 3 years)	3.0
ENGL 2010	Intermediate Writing	ENGL 1010 with C- or higher (or appropriate test scores within 3 years)	3.0
MATH 1050	College Algebra	MAT 1010 or higher (Min. grade of C, within 2 yrs.)	4.0
PHIL 2050	Ethics & Values	ENGL 1010. ENGL 2020 highly recommended	3.0
American Institutions: HIST 1700 American Civilization or HIST 1740 US Economic History or POLS 1000 American Heritage or POLS 1100 American Natl Govt or (HIST 2700 & 2710 US History)			3.0
HLTH 1100 or PES 1097	Personal Health and Wellness Fitness for Life		2.0
HUMANITIES (COMM 1020 required for UVU CS BS Degree)			3.0
SOCIAL SCIENCE (COMM 2110 required for UVU CS BS Degree)			3.0
FINE ARTS (select from list)			3.0
BIOLOGY (select from list)			3.0
PHYS 2210* & 2215* Physics for Scientists and Engineers I & Lab		MATH 1210	5.0
Complete one of the following course/lab combinations:*			
BIOL 1610 & 1615	College Biology I & Lab (5)	ENGL 1010	
CHEM 1210 & 1215	Principles of Chemistry I & Lab (5)	MATH 1050, prior chemistry experience rec.	
GEO 1010 & 1015 & 202R	Introduction to Geology & Labs (5)		
PHYS 2020 & 2025	College Physics II & Lab (5)	PHYS 2010 (or PHYS 2210 & PHYS Dept. Approval)	
PHYS 2220 & 2225	Physics for Scientists & Engineers II & Lab (5)	PHYS 2210 & MATH 1220	5.0
Total Credits Required for A.S. Degree			64.0

* Minimum grade of "C-" required in courses marked with asterisk*. . Minimum cumulative GPA of 2.0 required.

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.

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.

HUMANITIES (HH)
 AMST 2000 Intro to American Studies
 ASL 202G Intern Am. Sign Lang II
 CHIN 202G Intermediate Chinese II
 CINE 2150 Crit Intro Cinema Studies
 CINE 217G Race Class & Gender in US Cinema
 COMM1020 Public Speaking
 COMM 1050 Intro to Speech Comm
 COMM 1500 Intro to Mass Comm
 COMM217GRace Class & Gender in US Cinema
 ENGL 2030 Writing for Social Change
 ENGL 2130 Science Fiction
 ENGL 2150 Critical Intro Cinema Studies
 ENGL 217GRace Class & Gender in US Cinema
 ENGL 2200 Intro to Literature
 ENGL 2210 Introduction to Folklore
 ENGL 2230/223H Myths/Legends in Lit
 ENGL 2250/225H Creat Proc/Image Writing
 ENGL 2300/230H Shakespeare
 ENGL 2310 Technical Communication
 ENGL 2510 American Lit before 1865
 ENGL 2520 American Lit after 1865
 ENGL2600 Critical Intro to Literature
 ENGL 2610 Brit Lit before 1800
 ENGL 2620 Brit Lit after 1800
 ENGL 376G World Literature
 FREN 202G Intermediate French II
 GER 202G Intermediate German II
 GRK 2020 Intermediate Greek II
 HUM 1010/101H Humanities through the Arts
 HUM 101G Humanities through the Arts
 HUM 2010/201H World History Through Arts I
 HUM 201G World History Through Arts I
 HUM 2020/202H World History Through Arts II
 HUM 202G World History Through Arts II
 HUM 203G Art Form Focus I
 HUM 204G Art Form Focus II
 HUM 2100/210H Adventures Ideas Thru 1500
 HUM 2200/220H Adventures Ideas After 1500
 JPNS 202G Intermediate Japanese II
 LATN 2020 Intermediate Latin II
 PHIL 1000/100H Intro to Philosophy
 PHIL 1250 Intro to Logic/Critical Thinking
 PHIL 1610 Intro to Western Religions
 PHIL 1620 Intro to Eastern Religions
 PHIL 2110 Ancient Greek Philosophy
 PHIL 2130 Medieval Philosophy
 PHIL 2150 Early Modern Philosophy
 PORT 202G Intermediate Portuguese II
 RUS 202G Intermediate Russian II
 SPAN 202G Intermediate Spanish II

FINE ARTS (FF)
 ART 1010 Introduction to Visual Art
 ART 1020 Basic Drawing for Non-Majors
 ART 1050 Photography I
 ART 1110 Drawing I
 ART 1340 Sculpture I
 ART 1350 Ceramics I
 ART 1650 Watermedia I
 ART 3400 Fund of Art Education
 ARTH 2710 Hist of Art to the Renaissance
 ARTH271H Hist of Art to the Renaissance
 ARTH 2720 Hist of Art from Renaissance
 ARTH 272H Hist of Art from Renaissance
 DANC 1010 Dance as an Art Form
 DANC 2110 Orientation to Dance
 EGDT 1720 Architectural Rendering
 MUSC 1010/101H Intro to Music
 MUSC 1030 American Popular Music
 MUSC 1100 Fundamental of Music
 THEA 1013 Intro to Theater
 THEA 1023 Intro to Film
 THEA 1033 Acting I
 THEA 2311 Film History I
 THEA 2200 Theatre and Drama Elem School
*Complete 2 of the following to equal 1 Fine Arts Distribution course.**
 *DANC 3400 Dance in Elem School
 *MUSC 3400 Music in Elementary School

BIOLOGY (BB)
 BIOL 1010/101H General Biology
 BIOL 1070 Genetics
 BIOL 1200 Prehistoric Life
 BIOL 1500 Biological Anthropology
 BIOL 1610 College Biology I
 BIOL 1620 College Biology II
 *BIOL 204R Natural History Excursion
 BIOL 2500 Environment Biology
 BOT 2050 Field Botany
 BOT 2100 Flora of Utah
 BOT 2400 Plant Kingdom
 BTEC 1010, Fund in Biotech I Career Surv
 HLTH 3400 Human Diseases
 MICR 2060 Microbiology for Health Prof
 NUTR 2020 Nutrition Through Life Cycle
 ZOOL 1090 Intro Human Anat/Phys
 ZOOL 2320/232H Human Anatomy

SOCIAL/BEHAVIORAL SCIENCES (SS)
 ANTH 101G Soc/Cult Anthropology
 ANTH 1020 Biological Anthropology
 ANTH 103G World Prehistory
 ANTH 180G Intro to American Indian Studies
 ARCH 1100 Intro to Archaeology
 BESS 107G Multicultural Societies
 CJ 1010 Intro to Criminal Justice
 COMM 2110 Interpersonal Communication
 ECON 1010 Econ As Social Science
 ECON 2010 Microeconomics
 ECON 2020 Macroeconomics
 ES 1150 Community Emergency Preparedness
 FNFS 1150 Marriage and Relationship Skills
 FIN 1060 Personal Finance
 GEOG 130G Survey of World Geog
 GEOG 1400 Introduction to Human Geography
 GEOG 2100 Geography of US
 HIST 1500 World History to 1500
 HIST 151G World History from 1500 to Present
 HIST 1700/170H American Civilization
 (If not used as Core Requirement)
 HIST 1740 US Economic History
 (If not used as Core Requirement)
 HIST 180G Intro to American Indian Studies
 HIST 2700 US History to 1877
 GEDist Fall 18- March 22, 2016
 (If not used as Core Requirement)
 HIST 2710 US History Since 1877
 (If not used as Core Requirement)
 HIST 4320 History of Scientific Thought
 HIST 4330 Machines in the Making of History
 HLTH 2600 Drugs, Behavior & Society
 HLTH 2800 Human Sexuality
 HLTH 3000 Health Concepts Death/Dying
 MGMT 1010 Introduction to Business
 MGMT 2030 Women in Business
 MGMT 2110 Interpersonal Communication
 PRLG 1000 Intro to American Law
 POLS 1000 American Heritage
 (If not used as Core Requirement)
 POLS 1010 Intro to Political Science
 POLS 1100 American Natl Government
 (If not used as Core Requirement)
 POLS 2100 Intro International Relations
 POLS 2200 Intro to Comparative Politics
 PSY 1010/101H General Psychology
 PSY 1100 Human Development Life Span
 PSY 2800 Human Sexuality
 SOC 1010/101H Intro to Sociology
 SOC 1200 Sociology of the Family
 TECH 200G Technology and Human Life

PHYSICAL SCIENCES (PP)
 ASTR 1040/104H Elementary Astronomy
 ASTR 1050 Investigations of Solar Systems
 ASTR 1060 Investigation Stars/Galaxies
 ASTR 1070/107H Cultural Astro in Our Lives
 ASTR 1080 Life in the Universe
 CHEM 1010 Introduction to Chemistry
 CHEM 1110 Elem Chem for Health Sc.
 CHEM 1120 Elem Organic BioChemistry
 CHEM 1210 Principles of Chemistry I
 CHEM 1220 Principles of Chemistry II
 ENVT 1110 Intro to Environmental Mgmt
 GEO 1010/101H Intro to Geology
 GEO 1020 Prehistoric Life
 GEO 1080 Intro to Oceanography
 GEO 1220 Historical Geology
 GEO 204R Natural History Excursion*
 GEOG 1000 Intro to Physical Geography
 METO 1010 Intro to Meteorology
 METO 1060 Climate of the Earth
 PHSC 1000 Survey of Physical Science
 PHYS 1010 Elementary Physics
 PHYS 1700 Descriptive Acoustics
 PHYS 1750 Music Acoustics
 PHYS 1800 Energy You and the Environment
 PHYS 2010 College Physics I
 PHYS 2020 College Physics II
 PHYS 2210 Phys Scien/Engr I
 PHYS 2220 Phys Scien/ Engr II
 TECH 1010 Understanding Technology*
 May be used as the third science only*

ASSOCIATE IN SCIENCE DEGREE COMPUTER SCIENCE DEPARTMENT COMPUTER SCIENCE

Following is a diagram of a sequence which may be followed to complete the 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 CS department to avoid needing courses in semesters in which they are not taught.

