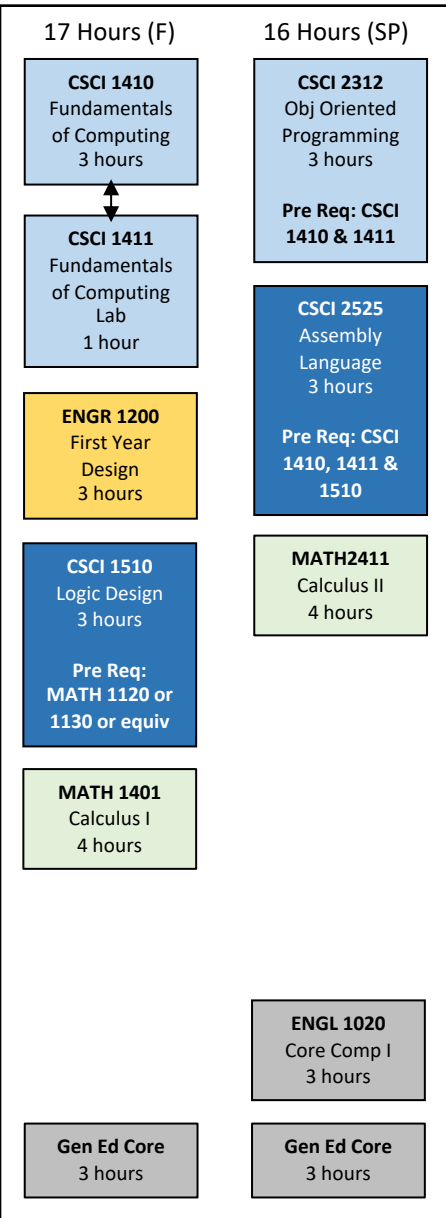
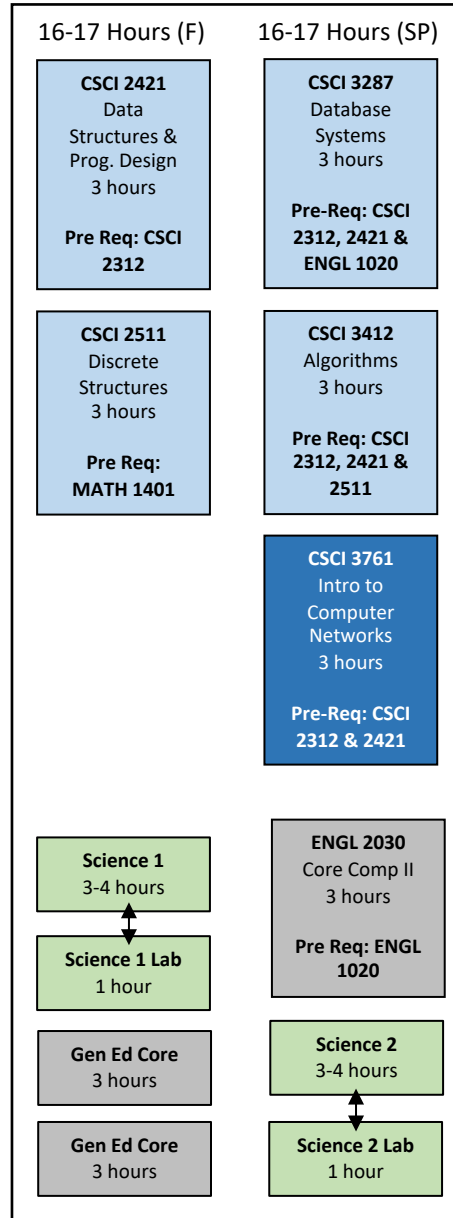


CS Undergraduate Curriculum – Fall 2021

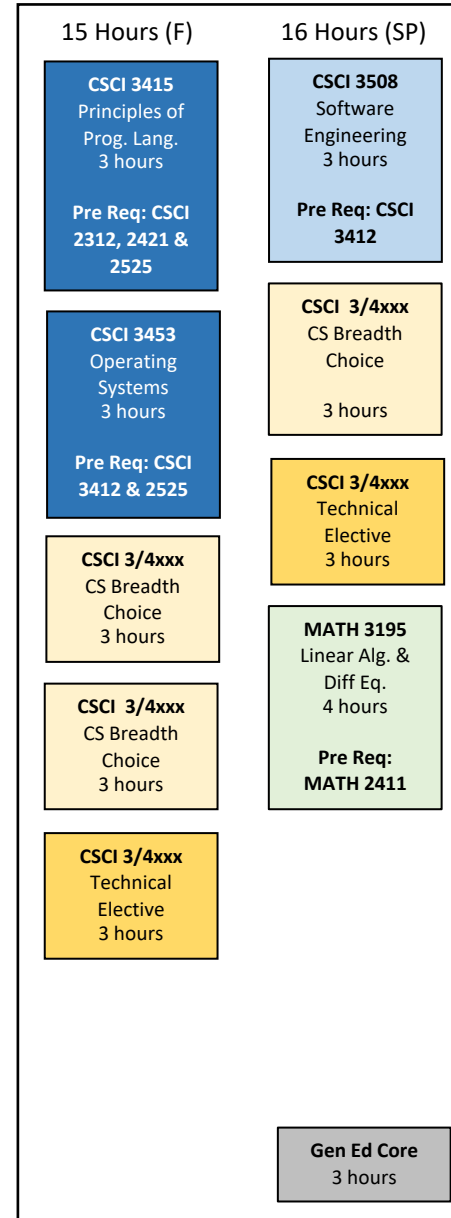
First Year



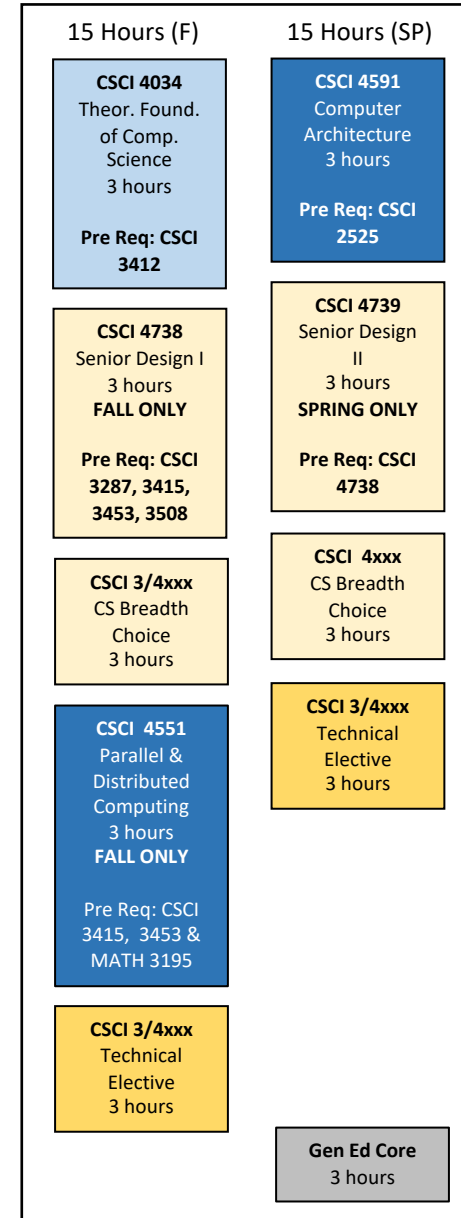
Second Year



Third Year



Fourth Year



CS CORE

CS SYSTEMS CORE

CS BREADTH

CS ELECTIVE

MATH

SCIENCE

GEN ED CORE



Computer Science Breadth Areas

CS Breadth: Capstone Project (take two)			
CSCI 4738	Senior Design I – Fall only	3 credits	Pre=CSCI 3287, CSCI 3415, CSCI 3453, CSCI 3508
CSCI 4739	Senior Design II – Spring only	3 credits	Pre=CSCI 4738
CS Breadth: Data Science (take one)			
Courses offered rotationally			
CSCI 4455	Data Mining	3 credits	Pre=MATH 3195, CSCI 3287 & CSCI 3412
CSCI 4580	Data Science	3 credits	Pre=MATH 3195, CSCI 3287 & CSCI 3412
CSCI 4930	Machine Learning	3 credits	Pre= MATH 3195 & CSCI 3412
CSCI 4931	Deep Learning	3 credits	Pre= MATH 3195 & CSCI 3412
CSCI 4951	Big Data Systems	3 credits	Pre = MATH 3195, CSCI 3287 & CSCI 3412
CS Breadth: Scientific Computing (take one)			
Courses offered rotationally			
CSCI 3560	Probability and Computing	3 credits	Pre=Math 2411 & CSCI 2511
CSCI 4650	Numerical Analysis I	3 credits	Pre=Math 2411, Math 3191 or 3195
CSCI 4110	Applied Number Theory	3 credits	Pre= 2511 or MATH 3000
CS Breadth: Secure Computing (take one)			
Courses offered rotationally			
CSCI 4741	Principles of Cyber Security	3 credits	Pre= CSCI 3287 & 3761
CSCI 4742	Cybersecurity Programming	3 credits	Pre= CSCI 3415
CSCI 4743	Cyber and Infrastructure Defense	3 credits	Pre= CSCI 3761
CS Breadth: System Software (take two)			
CSCI 3511	Hardware/Software Interface – Fall only	3 credits	Pre=CSCI 2525
CSCI 4287	Embedded Systems Programming – Spring only	3 credits	Pre=CSCI 3453
CSCI 4565	Introduction to Computer Graphics – Spring only	3 credits	Pre=CSCI 3412 & Math 3191 or 3195

Course prerequisites change regularly. Students are responsible for consulting advisors & the class schedule in the student portal for prerequisite information.

Science Choices

Choice 1 and 2 will require additional credits to meet the 10 required credits. Please see handbook for more information

Choice 1: BIOL 2051 & 2071; BIOL 2061 & 2081

Choice 2: CHEM 2031 & 2038; CHEM 2061 & 2068

Choice 3: PHYS 2311 & 2321; PHYS 2331 & 2341