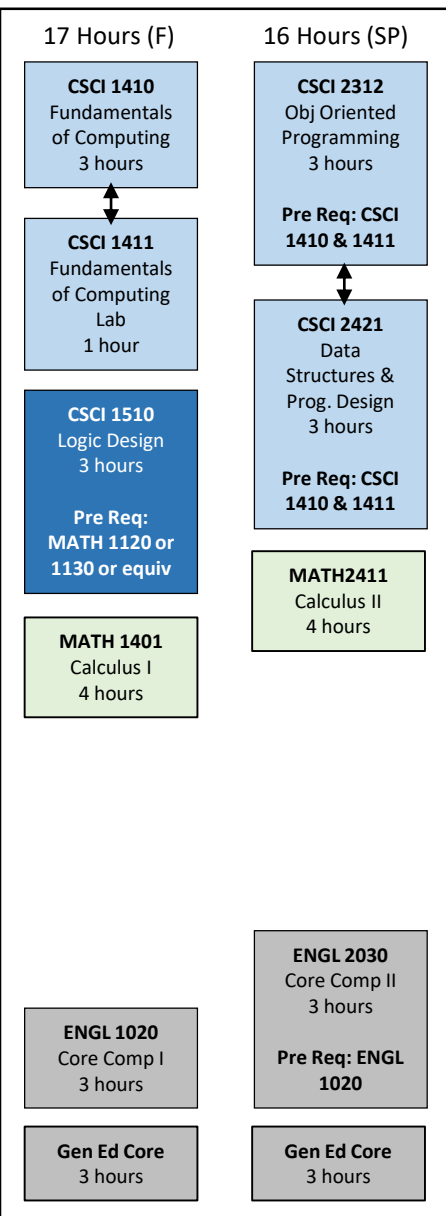
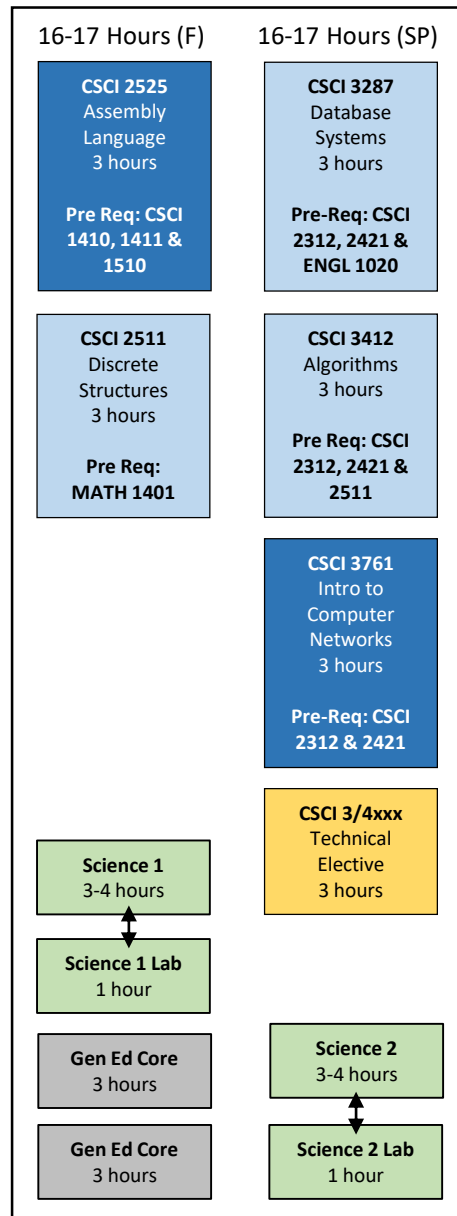


CS Undergraduate Curriculum – Fall 2019

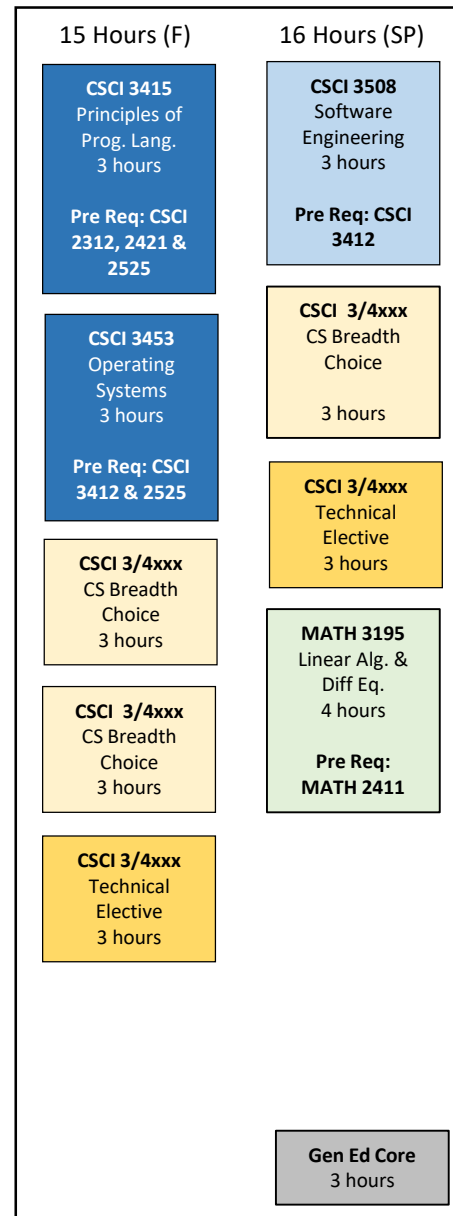
First Year



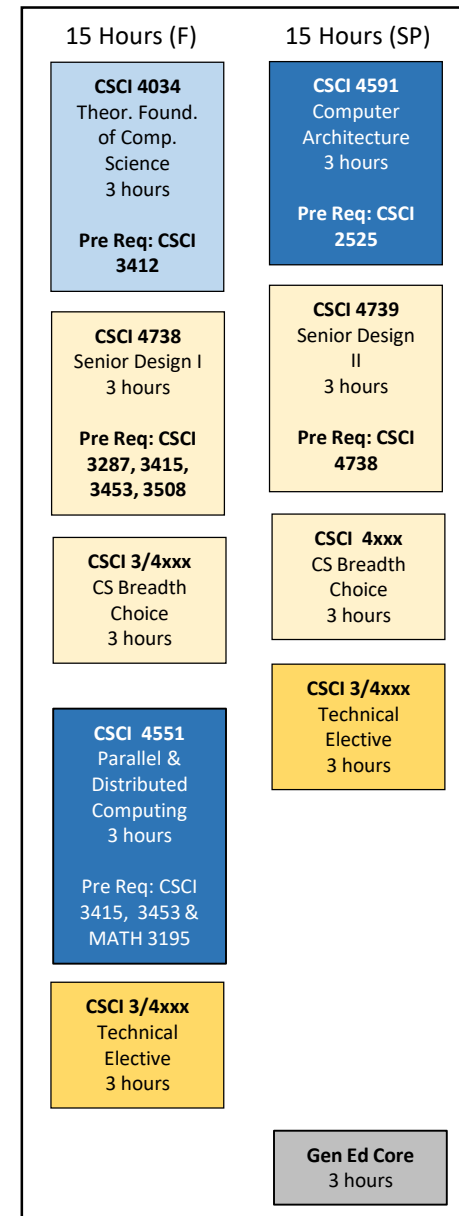
Second Year



Third Year



Fourth Year



CS CORE

CS SYSTEMS CORE

CS BREADTH

CS ELECTIVE

MATH

SCIENCE

GEN ED CORE



Department of Computer Science and Engineering

UNIVERSITY OF COLORADO
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Computer Science Breadth Areas

CS Breadth: Capstone Project (take two)			
CSCI 4738	Senior Design I	3 credits	Pre=CSCI 3287, CSCI 3415, CSCI 3453, CSCI 3508
CSCI 4739	Senior Design II	3 credits	Pre=CSCI 4738
CS Breadth: Data Science (take one)			
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)			
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)			
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	3 credits	Pre=CSCI 2525
CSCI 4287	Embedded Systems Programming	3 credits	Pre=CSCI 3453
CSCI 4565	Introduction to Computer Graphics	3 credits	Pre=CSCI 3412 & Math 3191 or 3195

*** Course prerequisites change regularly. Students are responsible for consulting advisors and 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