Computer Science Pathways

BS

CS160 (4)
Survey of CS
fall winter

CS161 + Lab (4)
Computer Science I
winter spring

MTH231 / 251 (4)
Discrete Math I / Calc I

MTH232 / 252 (4)
Discrete Math II / Calc II

CS162 + Lab (4)
Computer Science II
spring fall

MTH354 (4)
Applied Discrete Math

CS271 (4)
Computer Organization
fall winter

IS278 (4)
Networks
winter summer

CS260 (4)
Data Structures
fall winter

CS360 (4)
Programming Languages
fall winter

CS361 (4)
Algorithms
winter spring

CS364 (4)
Information Management
winter spring

CS365 (4)
Operating Sys / Networks
fall winter

CS363 (4)
Info Assurance/Security
spring fall

CS360 + Lab (4)
Software Engineering I
fall

CS462 + Lab (4)
Software Engineering III
winter

CS460 + Lab (4)
Software Engineering I
fall

CS461 + Lab (4)
Software Engineering II
winter

CS462 + Lab (4)
Software Engineering III
spring

AB, 2+2

Start here with advisor approval

Omit 1 elective (4 course credits), add 11-12 credits of breadth

BA

27 CS course credits, planned with advisor

Minor

Sample Electives

• CS431 Intelligent Systems
• CS434 Data Mining and Warehouse
• CS435 Open Source Software Dev
• CS436 Dynamic Systems Simulation

• CS440 Analysis of Algorithms
• CS445 Theory of Computation
• CS465 Microservice Architecture
• CS474 Concurrent Systems

• CS480 Blockchain and Cryptocurrency
• CS489 Network Security
• CS407 Seminars

CS Degrees 2019-20

BS/BA/AB/2+2/Minor rev 5/8/2019