

Bachelor of Science, Major in Computer Science, Minor in Mathematics
Program Grid

Note: This program grid is provided for guidance only. Degree completion is based on courses completed successfully and is subject to all applicable requirements and procedures in effect. Students should consult the B.Sc. Degree Advisor to confirm program requirements for their chosen degree.

Course Number	Course Name	Credits	Upper-Level Credits	Notes
English 1	100-level English	3		1
English 2	100-level English	3		1
MATH 100 or 121	Calculus I	4		
MATH 101 or 122	Calculus II	4		
Non-Science 100-499	Non-Science Elective I	3		2
Non-Science 100-499	Non-Science Elective II	3		2
Science 100-299	Lower-Level Science Elective	3		3
Science 100-299	Lower-Level Science Elective	3		3
CSCI 159	Computing Science I	4		
CSCI 161	Computing Science II	4		
CSCI 162	Topics in Computer Science	3		
MATH 123	Logic and Foundations	3		
CSCI 251	Systems and Networks	3		
CSCI 260	Data Structures	4		
CSCI 261	Comp. Architecture & Assembly Language	3		
CSCI 265	Software Engineering	3		
MATH 223	Discrete and Combinatorial Math	3		
MATH 241	Linear Algebra	3		
CSCI 310	Intro. to Human-Computer Interaction	3	3	
CSCI 311	Web Programming	4	4	
CSCI 320	Foundations of Computer Science	3	3	
CSCI 330	Programming Languages	3	3	
CSCI 355	Digital Logic and Computer Organization	4	4	
CSCI 360	Intro to Operating Systems	3	3	
CSCI 370	Database Systems	3	3	
CSCI 400	Computers and Society	3	3	
CSCI 460	Networks and Communications	3	3	
CSCI 300-499	Upper-Level Computer Science Elective	3	3	4
CSCI 400-499	400-Level Computer Science Elective I	3	3	5
CSCI 400-499	400-Level Computer Science Elective I	3	3	5
MATH 221	Calculus III	3		
MATH 211 or 254	Statistics I	3		
MATH 300-499	Upper-Level Mathematics Elective I	3	3	6
MATH 300-499	Upper-Level Mathematics Elective II	3	3	6
MATH 300-499	Upper-Level Mathematics Elective III	3	3	6
MATH 300-499	Upper-Level Mathematics Elective IV	3	3	6
Elective 100-499	General Elective I	3		7
Elective 100-499	General Elective II	3		7
Elective 100-499	General Elective III	3		7
TOTAL:		124	44	

See notes on the next page /...

NOTES:

1. The Degree English Requirement can be met as follows:
 - Two of ENGL 115 (or 117), 125 (or 127), 135, 204, or an INTR course that includes a ENGL course exemption; or,
 - LBST 111 and 112.
2. Non-Science Electives can be any courses outside of the Science discipline numbered 100-499. The following courses may not be counted to meet this requirement, although they may be counted as general electives:
 - Any course beginning with the following discipline identifiers: AQUA, ASTR, BIOL, CHEM, CSCI, ENGC, ENGE, ENGM, ENGR, FISH, FRST, GEOL, MATH, PHYS, RMOT, QUME, and SCIE.
 - Anthropology: ANTH 111, 213, 214, 341B, 342, 343, 344, 350, 351, 352, 353 361, 401, 430, 449, 460.
 - Geography: GEOG 211, 212, 221, 226, 228, 326, 328, 372, 373, 374, 376, 426, 428.
 - Psychology: PSYC 204, 205, 300A, 300B, 301, 302, 305, 315, 316, 318, 319, 323, 324, 345, 365, 400, 415, 419, 445, 490, 491, 498A.
 - Kinesiology: KIN 201, 220, 301, 302, 400, 401.
3. Lower-Level Science Electives can be courses numbered 100-299 in any science discipline, except MATH and CSCI courses. These courses are required to satisfy the Lower-Level Sciences Requirement of the Bachelor of Science degree. Options of science disciplines include:
 - AQUA, ASTR, BIOL, CHEM, ENGC, ENGE, ENGM, ENGR, FISH, FRST, GEOL, PHYS, RMOT and SCIE.
 - Computer Science Honours, Majors or Minors students may take 6 credits of Business in lieu of six credits from one science discipline.
4. The Upper-Level Computer Science Elective can be any CSCI course numbered 300 or above, excluding CSCI 307, CSCI 308, CSCI 309, CSCI 408, and CSCI 409.
5. 400-Level Computer Science Electives can be any CSCI course numbered 400 or above, excluding CSCI 408 and CSCI 409.
6. Upper-Level Mathematics Electives can be any MATH courses numbered 300-499.
7. General Electives can be courses in any discipline numbered 100-499.