

PROGRAM PLANNING WORKSHEET – September 2026 entry



COMPUTER
SCIENCE



This worksheet is for PLANNING PURPOSES ONLY. In the event of any discrepancy, the September 2026 Academic Calendar will be considered the authority.

Data Science Major (BSc)

YEAR 1		
Course Requirements	Units	✓
CSC 110 – Fundamentals of Programming I	1.5	
CSC 115 – Fundamentals of Programming II	1.5	
CSC 120 – Society, Ethics, Professionalism & Computing	1.5	
MATH 100 – Calculus I, or MATH 109 – Intro to Calculus	1.5	
MATH 101 – Calculus II	1.5	
MATH 110 – Matrix Algebra for Engineers, or MATH 211 – Matrix Algebra	1.5	
MATH 122 – Logic & Foundations	1.5	
STAT 123 – Data Science	1.5	
Electives (<i>any level</i>) Students without the AWR* should take ATWP 135, ENSH 101 or ENSH 102.	3.0	

YEAR 3		
Course Requirements	Units	✓
CSC 320 – Foundations of Computer Science	1.5	
CSC 349A – Numerical Analysis, or MATH 348 – Numerical Methods	1.5	
CSC 370 – Database Systems	1.5	
SENG 474 – Data Mining	1.5	
STAT 350 – Mathematical Statistics I	1.5	
STAT 353 – Applied Regression Analysis	1.5	
STAT 354 – Sampling Techniques	1.5	
CSC, ECE, SENG or STAT 300- or 400-level	1.5	
Electives (<i>any level</i>)	3.0	

YEAR 2		
Course Requirements	Units	✓
CSC 225 – Algorithms & Data Structures I	1.5	
CSC 226 – Algorithms & Data Structures II	1.5	
CSC 230 – Intro to Computer Architecture	1.5	
MATH 200 – Calculus III	1.5	
MATH 204 – Calculus IV	1.5	
MATH 222 – Discrete & Combinatorial Mathematics	1.5	
SENG 265 – Software Development Methods	1.5	
STAT 260 – Intro to Probability & Statistics I	1.5	
STAT 261 – Intro to Probability & Statistics II	1.5	
Electives (<i>any level</i>)	1.5	

YEAR 4		
Course Requirements	Units	✓
CSC 321 – Intro to Artificial Intelligence, or ECE 470 – Artificial Intelligence	1.5	
CSC 431, CSC 445, CSC 446, ECE 403 or STAT 464	1.5	
STAT 359 – Data Analysis	1.5	
STAT 458 – Generalized Linear Models	1.5	
STAT 469 – Machine Learning	1.5	
One of STAT 453 – 457, 459, 460 or 466	1.5	
CSC, ECE, MATH, SENG or STAT 300- or 400-level	1.5	
Electives (<i>any level</i>)	4.5	

Program-Specific Requirements

Students must achieve at least a C grade (60%) in all required Computer Science, Software Engineering, Math, Statistics and English courses. If the minimum grade requirement is not met, the course will not count towards degree completion and must be re-taken.

No more than 3.0 units of the upper-level courses required for the program may be taken at another institution.

Degree Requirements

To earn a BSc degree, a student must complete a minimum of 60.0 overall units; at least 30.0 of these 60.0 units must be completed at UVic.

21.0 of the 60.0 units must be from courses numbered at the 300- or 400-level; 18.0 of these 21.0 units must be taken at UVic.

*The Academic Writing Requirement (AWR) must be met.

Admission Requirements

Successful completion of CSC 110, CSC 115, MATH 101, MATH 122 and an additional 6.0 units required for the program.

Minimum C grade (60%) in all CSC, ECE, MATH, SENG, STAT and English courses attempted.

Students may declare this program in either the Faculty of Engineering and Computer Science or the Faculty of Science.

Questions?

We're here to help!

Email: cscadvisor2@uvic.ca

Or come visit us on the 5th floor of the Engineering & Computer Science Building.

