

Course List Minor in Computer Science

This program is designed to be combined with a major or honors with specialization in a discipline other than science.

List of mandatory courses (30 credits)

		<u>Session</u>	<u>Prerequisite</u>
CSI2110	Data Structures and Algorithms	Fall	ITI1121, MAT1348
CSI2120	Programming Paradigms	Winter	CSI2110
ITI1100	Digital Systems I	Winter	
ITI1120	Introduction to Computing I	Fall/Winter	
ITI1121	Introduction to Computing II	Winter	ITI1120
MAT1348	Discrete Mathematics for Computing	Winter	MAT1318, Ontario 4U Advanced Functions (MHF4U) or equivalent
6 optional credits from the list ¹		Fall/Winter	
6 optional credits in CSI or SEG at the 3000 level from the list ¹		Fall/Winter	

Note(s)

¹ Suggested sequence of optional courses per field of interest. Note that some courses require prerequisites which are not part of the specific program requirements. Not all 4000 level courses are offered every year.

List of optional courses

		<u>Session</u>	<u>Prerequisite</u>
Developing software for the visual arts:			
MAT1341	Introduction to Linear Algebra	Fall/Winter	MAT1339 or Ontario 4U Calculus and Vectors (MCV4U), or an equivalent
CSI2101	Discrete Structures	Winter	MAT1348
CSI3105	Design and Analysis of Algorithms I	Fall	CSI2110, CSI2101 or for honors mathematics students: CSI2110, (MAT2141 or MAT2143)
CSI4130	Computer Graphics	Winter	
Computing for biology or biochemistry:			
MAT1341	Introduction to Linear Algebra	Fall/Winter	MAT1339 or Ontario 4U Calculus and Vectors (MCV4U), or an equivalent
CSI2101	Discrete Structures	Winter	MAT1348
CSI3105	Design and Analysis of Algorithms I	Fall	CSI2110, CSI2101 or for honors mathematics students: CSI2110, (MAT2141 or MAT2143)
Analysis and design in information systems:			
CSI2132	Databases I	Winter	CSI2110
CSI3130	Databases II	Fall	CSI2132
SEG2105	Introduction to Software Engineering	Fall	ITI1121
SEG3101	Software Requirements Analysis	Fall	SEG2105
Web-based systems and Web design:			
CSI2132	Databases I	Winter	CSI2110
CSI3140	WWW Structures, Techniques and Standards	Winter	CSI2110, CSI2132
SEG2105	Introduction to Software Engineering	Fall	ITI1121
SEG3125	Analysis and Design of User Interfaces	Fall	SEG2105

¹ Suggested sequence of optional courses per field of interest. Note that some courses require prerequisites which are not part of the specific program requirements. Not all 4000 level courses are offered every year.