Computer Science - Web Services & Applications
September Entry

Year	Term	Course	Title	Credit	Prerequisite	Co-requisite
Year 1	Fall	COMP 232	Mathematics for Computer Science	3.00	MATH 203, 204	
		COMP 248	Object-Oriented Programming I	3.50		MATH 204
			Elective*			
	Winter	COMP 228	System Hardware	3.00	COMP 248	MATH 203, 204
		COMP 233	Probability and Statistics for Computer Science	3.00	MATH 205	
		COMP 249	Object-Oriented Programming II	3.50	COMP 248; MATH 203	MATH 205
		ENCS 282	Technical Writing and Communication	3.00	Students must pass the Engineering Writing Test (EWT), or pass ENCS 272 with a grade of C- or higher	
			Elective*			
Year 2	Fall	COMP 348	Principles of Programming Languages	3.00	COMP 249	
		COMP 352	Data Structures and Algorithms	3.00	COMP 249	COMP 232
		SOEN 287	Web Programming	3.00	COMP 248	
			Elective*			
	Winter	COMP 346	Operating Systems	4.00	COMP 228 or SOEN 228; COMP 352	
		COMP 353	Databases	4.00	COMP 232 or COEN 231; COMP 352 or COEN 352	
		COMP 354	Introduction to Software Engineering	4.00	COMP 352; ENCS 282	
			Elective*			
Year 3	Fall	COMP 335	Introduction to Theoretical Computer Science	3.00	COMP 232 or COEN 231; COMP 249 or COEN 244	
		SOEN 387	Web-Based Enterprise Application Design	3.00	COMP 354 or SOEN 341; SOEN 287	COMP 353
			Elective*			
	Winter	ENCS 393	Social and Ethical Dimensions of Information and Communication Technologies	3.00	ENCS 282; 40 credits in BCompSc program	
			Elective*			

* For the list of electives which students must complete, please consult section 71.70.2 of the Undergraduate Calendar.
Students in a Bachelor of Computer Science should follow the academic calendar for the year to which they have been admitted /readmitted.
Please note, only core courses are listed and not all electives are assigned a row in the above sequence.
Full-time status: minimum 12 credits required per term.

Computer Science - Web Services & Applications
January Entry

Year	Term	Course	Title	Credit	Prerequisite	Co-requisite
Year 1	Winter	COMP 232	Mathematics for Computer Science	3.00	MATH 203, 204	
		COMP 248	Object-Oriented Programming I	3.50		MATH 204
			Elective*			
	Summer	COMP 228	System Hardware	3.00	COMP 248	MATH 203, 204
		COMP 233	Probability and Statistics for Computer Science	3.00	MATH 205	
		COMP 249	Object-Oriented Programming II	3.50	COMP 248; MATH 203	MATH 205
		ENCS 282	Technical Writing and Communication	3.00	Students must pass the Engineering Writing Test (EWT), or pass ENCS 272 with a grade of C- or higher	
			Elective*			
Year 2	Fall	COMP 348	Principles of Programming Languages	3.00	COMP 249	
		COMP 352	Data Structures and Algorithms	3.00	COMP 249	COMP 232
		SOEN 287	Web Programming	3.00	COMP 248	
			Elective*			
	Winter	COMP 346	Operating Systems	4.00	COMP 228 or SOEN 228; COMP 352	
		COMP 353	Databases	4.00	COMP 232 or COEN 231; COMP 352 or COEN 352	
		COMP 354	Introduction to Software Engineering	4.00	COMP 352; ENCS 282	
			Elective*			
Year 3	Fall	COMP 335	Introduction to Theoretical Computer Science	3.00	COMP 232 or COEN 231; COMP 249 or COEN 244	
		SOEN 387	Web-Based Enterprise Application Design	3.00	COMP 354 or SOEN 341; SOEN 287	COMP 353
			Elective*			
	Winter	ENCS 393	Social and Ethical Dimensions of Information and Communication Technologies	3.00	ENCS 282; 40 credits in BCompSc program	
			Elective*			

* For the list of electives which students must complete, please consult section 71.70.2 of the Undergraduate Calendar.
Students in a Bachelor of Computer Science should follow the academic calendar for the year to which they have been admitted /readmitted.
Please note, only core courses are listed and not all electives are assigned a row in the above sequence.
Full-time status: minimum 12 credits required per term.

Computer Science - Web Services & Applications
Co-op Entry

Year	Term	Course	Title	Credit	Prerequisite	Co-requisite
Year 1	Fall	COMP 232	Mathematics for Computer Science	3.00	MATH 203, 204	
		COMP 248	Object-Oriented Programming I	3.50		MATH 204
			Elective*			
	Winter	COMP 228	System Hardware	3.00	COMP 248	MATH 203, 204
		COMP 233	Probability and Statistics for Computer Science	3.00	MATH 205	
		COMP 249	Object-Oriented Programming II	3.50	COMP 248; MATH 203	MATH 205
		ENCS 282	Technical Writing and Communication	3.00	Students must pass the Engineering Writing Test (EWT), or pass ENCS 272 with a grade of C- or higher	
			Elective*			
	Summer	Work Term 1				
Year 2	Fall	COMP 348	Principles of Programming Languages	3.00	COMP 249	
		COMP 352	Data Structures and Algorithms	3.00	COMP 249	COMP 232
		SOEN 287	Web Programming	3.00	COMP 248	
			Elective*			
	Winter	Work Term 2				
	Summer	COMP 346	Operating Systems	4.00	COMP 228 or SOEN 228; COMP 352	
		COMP 353	Databases	4.00	COMP 232 or COEN 231; COMP 352 or COEN 352	
		COMP 354	Introduction to Software Engineering	4.00	COMP 352; ENCS 282	
			Elective*			
Year 3	Fall	ENCS 393	Social and Ethical Dimensions of Information and Communication Technologies	3.00	ENCS 282; 40 credits in BCompSc program	
		SOEN 387	Web-Based Enterprise Application Design	3.00	COMP 354 or SOEN 341; SOEN 287	COMP 353
			Elective*			
	Winter	Work Term 3				
	Summer	COMP 335	Introduction to Theoretical Computer Science	3.00	COMP 232 or COEN 231; COMP 249 or COEN 244	
			Elective*			

For the list of electives which students must complete, please consult section 71.70.2 of the Undergraduate Calendar.
Students in a Bachelor of Computer Science should follow the academic calendar for the year to which they have been admitted /readmitted.
Please note, only core courses are listed and not all electives are assigned a row in the above sequence.
Full-time status: minimum 12 credits required per term.