

 MARKHAM CAMPUS 	DEGREE CHECKLIST 2026-2027			HONOURS BACHELOR OF APPLIED SCIENCE (BAsc) COMPUTER SCIENCE FOR SOFTWARE DEVELOPMENT			
NAME:							
STUDENT #:							
Transfer Credit (if applicable):							
Students are strongly advised to refer to online Academic Calendars before enrolling into courses: http://calendars.registrar.yorku.ca/							
SUBJECT	COURSES			NOTES & PREREQUISITES¹	TERM	ENROLLED	COMPLETED
First Year Courses							
Core	LE/CSSD 1101	3.00	Coding through Biology (CS1 A)²				
Core	LE/CSSD 1102	3.00	Coding through Chemistry (CS1 B)³				
Core	LE/CSSD 1201	4.00	Coding with Objects (CS2)	Prerequisite¹: LE/CSSD1101 3.00, or LE/CSSD1102 3.00, or LE/CSSD 1050 3.00			
Core	LE/CSSD 1202	4.00	Web-Centric Programming	Prerequisite¹: LE/CSSD 1101 3.00, or LE/CSSD 1102 3.00, or LE/CSSD 1050 3.00			
General Education: Digital Citizenship <i>Choose 1 from each set:</i> Being a Digital Citizen, choose one: • FA/CRTE 1900 3.00 (formerly offered as FA/CRTE 2000 3.00) • AP/CMDS 1001 3.00 • LE/DIGT 1172 3.00 Mobilizing Digital Citizenship, choose one: • FA/CRTE 1901 3.00 (formerly offered as FA/CRTE 2001 3.00) • AP/CMDS 1002 3.00 • LE/DIGT 1272 3.00		3.00	Being a Digital Citizen				
		3.00	Mobilizing Digital Citizenship	Prerequisite¹: Being a Digital Citizen			
General Education	LE/CSSD 1161	2.00	Teamwork and Communication in Software Development				
	LE/CSSD 1203	4.00	Logic and Computing	Prerequisites¹: SC/MATH 1516 3.00 AND LE/CSSD 1101 3.00, or LE/CSSD 1102 3.00, or LE/CSSD 1050 3.00			
	SC/MATH 1516	3.00	General Mathematics for Software Development				
Second Year Courses							
Core	LE/CSSD 2061	1.00	Preparation for the Workplace	<i>May also appear as LE/CSSD 2100A 1.00 & LE/CSSD 2100B 1.00</i>			
Core	LE/CSSD 2101	4.00	Object-Oriented Programming	Prerequisite¹: LE/CSSD 1201 4.00			
Core	LE/CSSD 2102	4.00	Data Structures & Algorithms	Prerequisite¹: LE/CSSD 1201 4.00			
Core	LE/CSSD 2103	0.50	Shell Scripting	Prerequisite¹: LE/CSSD 1201 4.00			
Core	LE/CSSD 2104	2.00	Programming in C	Prerequisite¹: LE/CSSD 1201 4.00			
Core	LE/CSSD 2105	1.00	Programming in Assembly	Prerequisite¹: LE/CSSD 1201 4.00			
Core	LE/CSSD 2106	0.50	Testing, Debugging & Profiling C Code	Prerequisite¹: LE/CSSD 1201 4.00 Corequisite¹: LE/CSSD 2104 2.00			
Core	LE/CSSD 2202	4.00	Design and Analysis of Algorithms	Prerequisite¹: LE/CSSD 2102 4.00			
Core	LE/CSSD 2203	4.00	Software Design	Prerequisite¹: LE/CSSD 2101 4.00			
General Education	LE/CSSD 2261	3.00	Professionalism, Systems Thinking, and Meaningful Impact in Tech				
Stream/Elective		3.00					
Co-op	LE/COOP 2100	2.00	Professional Development for Co-Op Students	Prerequisites¹: CSSD 1203, CSSD 2103, CSSD 2104, CSSD 2105, CSSD 2106, CSSD 2202, CSSD 2203 & CSSD 2061			
Co-op Work Term Year 2 Summer and/or Year 3 Fall/Winter	LE/COOP 2109	0.00	Lassonde Co-op Work-term	Prerequisite¹: 56-60 required credits			

SUBJECT	COURSES			NOTES & PREREQUISITES¹	TERM	ENROLLED	COMPLETED
Third Year Courses							
Core	LE/CSSD 3101	3.00	Software Requirements & Analysis	Prerequisite¹: LE/CSSD 2203 4.00			
Core		2.00		CSSD 3102 2.00 Prerequisite¹: LE/CSSD 2101 4.00			
• CSSD 3102 2.00 Introduction to Functional & Logic Programming • CSSD 3104 2.00 Programming for Multicore CPUs & GPUs				CSSD 3104 2.00 Prerequisite¹: LE/CSSD 2104 2.00			
Core	LE/CSSD 3201	4.00	Introduction to Databases	Prerequisite¹: LE/CSSD 2101 4.00			
Core	LE/CSSD 3203	3.00	Software Testing and Quality	Prerequisite¹: LE/CSSD 2203 4.00			
Core: Showcasing Credits							
Undergraduate Research/Programming Challenges 2 credits from:							
Computing Challenges: Projects 1 to 5 LE/CSSD 3071 1.00 LE/CSSD 3072 1.00 LE/CSSD 3073 1.00 LE/CSSD 3074 1.00 LE/CSSD 3075 1.00 LE/CSSD 3079 2.00 Computing Challenges: Showcase		2.00		Prerequisites1 for CSSD 3071-75: LE/CSSD 2202 4.00 and LE/CSSD 2203 4.00, AND permission by course instructor and coordinator Prerequisite¹ for CSSD 3079: LE/CSSD 2102 4.00			
Stream/Elective		3.00					
Elective ^F 12.00 credits of elective courses in any combination, e.g., 3.00 + 4.00 + 4.00 OR 4.00 + 3.00 + 2.00 + 2.00, etc.		3.00					
		3.00					
		3.00					
		3.00					
Co-op/Elective Co-op: Year 3 Summer and/or Year 4 FA/WI)	LE/COOP 3100	2.00	Critical Reflection on Work Experience using Professional Portfolios	Prerequisite¹: LE/CSSD 2061 2.00 and Corequisite¹: LE/COOP 3109 0.00			
Co-op Work Term Year 3 Summer and/or Year 4 Fall/Winter	LE/COOP 3109	0.00	Lassonde Co-op Work-term	Prerequisite¹: 90+ required credits			
SUBJECT TO CHANGE - Fourth Year Courses - SUBJECT TO CHANGE							
Major Requirement: Capstone	LE/CSSD 4071	2.00	Capstone Project: Requirements				
Major Requirement: Capstone	LE/CSSD 4072	2.00	Capstone Project: Documentation				
Major Requirement: Capstone	LE/CSSD 4073	4.00	Capstone Project: Implementation				
Major Requirement: Capstone	LE/CSSD 4103	3.00	Software Project Management				
Stream/Elective		3.00					
Elective ^F 15.00 credits of elective courses in any combination, e.g.: 3.00 + 3.00 + 3.00 + 3.00 + 3.00 OR 3.00 + 3.00 + 4.00 + 2.00 + 2.00 + 1.00 etc.		3.00					
		3.00					
		3.00					
		3.00					
Upper Level Requirement ^E : If less than 36 Upper Level (3000/4000 level) credits earned so far, some electives will need to be taken at upper level to achieve the required 36-credit minimum.		3.00					
Co-op	LE/CSSD 4061	2.00	Advanced Preparation for the Workplace				
120 Credits with accompanying CGPA (minimum cumulative GPA of 5.00 (C+) required to graduate with an Honours BASc degree)							
Program Requirements							
A. General Education Requirement: 18.00 credits completed early in academic journey, prior to degree completion: LE/CSSD 1161 2.00, LE/CSSD 1203 4.00, SC/MATH 1516 3.00, LE/CSSD 2261 3.00, Being a DIgital Citizen 3.00, and Mobilizing Digital Citizenship 3.00 B. Core (Major Requirement) Options: 2 credits chosen from CSSD 3102 2.00, CSSD 3104 2.00 Undergraduate Research/Programming Challenges 'Showcasing Credits': 2.00 credits chosen from LE/CSSD 3071 1.00, LE/CSSD 3072 1.00, LE/CSSD 3073 1.00, LE/CSSD 3074 1.00, LE/CSSD 3075 1.00, LE/CSSD 3079 2.00 (Students can take up to 5.00 "Showcasing Credits") C. Co-op (Optional): 6.00 credits in LE/COOP 2100 2.00, LE/COOP 3100 2.00 and LE/CSSD 4061 2.00 Co-op Work-Term Courses: LE/COOP 2109 0.00, LE/COOP 3109 0.00 to be taken alongside corresponding co-op course as indicated in checklist Available after the second year, co-op consists of 2 work periods separated by at least one academic term. Upon completion of the program, a co-op designation is added to the transcript. The total duration across the 2 work periods must be at least 12 months and no more than 20 months to receive this designation.							

D. Stream (Optional): 9.00 credits from one of the following Stream options Some of the CSSD stream courses will be offered as cross-program 'DIGT' courses, open to both Computer Science for Software Devt and Digital Technologies students. These DIGT courses are delivered in a blended format – two weeks of in-person activities plus online asynchronous activities for the remaining weeks Cloud Computing (CC) LE/CSSD 2211 3.00 Introduction to Cloud Computing, LE/CSSD 3111 3.00 Software Development for Cloud Computing, LE/CSSD 3211 3.00 Distributed Computing & Cloud Systems, LE/CSSD 4211 3.00 Orchestration and DevOps for Cloud Computing Cyber Security (CS) LE/CSSD 2221 3.00 Introduction to Security, LE/CSSD 3121 3.00 Information Systems Forensics, LE/CSSD 3221 3.00 Network Security, LE/DIGT 3121 3.00 Network Security (<i>can be taken instead of CSSD 3221 3.00</i>), LE/DIGT 4221 3.00 Digital Forensics (<i>can be taken instead of CSSD 3121 3.00</i>), LE/CSSD 4221 3.00 Vulnerability Detection Data Science (DS) LE/CSSD 2231 3.00 Introduction to Data Science and Application, LE/CSSD 3131 3.00 Machine Learning, LE/CSSD 3231 3.00 Responsible AI, LE/DIGT 4132 3.00 Applied Machine Learning: Projects, Evaluation & Responsible AI (<i>can be taken instead of CSSD 3231 3.00</i>), LE/CSSD 4231 3.00 Advanced Topic in Data Science - Computer Vision and NLP Non-Stream Mix of credits across specializations/streams. Please contact your Faculty, Department for guidance. E. Upper Level Requirement: A minimum of 36.00 credits at the 3000-level or higher are required F. Elective Requirement: A minimum of 27.00 credits chosen from additional courses within the major (including stream courses, workplace courses, or up to 3 more credits from Undergraduate Research/Programming Challenges 'showcasing credits'), or from outside the major

Notes

1: A fulsome list of prerequisites and/or corequisites for each course is available at: https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm 2: LE/CSSD 1101 3.00 will take place during the first 6 weeks of the Fall term. 3: LE/CSSD 1102 3.00 will take place during the second 6 weeks of the Fall term. PLEASE NOTE: This manual Advising Worksheet is a guide designed to help students understand their degree requirements and to assist with course selection. It does not serve as an official confirmation of a student's eligibility to graduate. The Registrar's Office will officially determine satisfaction of all degree requirements upon the submission of a graduation application. Academic Advising – for assistance understanding degree requirements Metropia Student Success Welcome Desk, Room MK 1010 1 University Blvd, Markham, ON 416-736-5008 advise.markham@yorku.ca
--

Advising notes

--