

BACHELOR OF SCIENCE COMPUTER SCIENCE MAJOR 2013/14 Academic Year	
REQUIRED JUNIOR LEVEL COURSES <sup>1</sup>	3 - 6 CREDITS
	re previously completed CMPT 114 and use those courses to fulfill this requirement. <sup>3</sup>
To meet the requirements of this major, students must complete a minimum of 15 credits at the 300- or 400-level.	
REQUIRED SENIOR LEVEL COURSES GENERAL COMPUTER SCIENCE MAJOR	18 CREDITS
6 CREDITS CMPT 200: Data Structures & their Algorithms <sup>3</sup> CMPT 395: Introduction to Software Engineering	
9 CREDITS CMPT 201: Programming Methodology   in CMPT 204: Algorithms I   CORE CMPT 229: Computer Organization & Architecture   COMPUTING CMPT 250: Human-Computer Interaction I   CMPT 291: Introduction to Relational Databases	
3 CREDITS CMPT 496: Individual Project <sup>4</sup> CMPT 498: Team Project <sup>4</sup>	
REQUIRED SENIOR LEVEL COURSES SOFTWARE PROFESSIONAL STREAM	30 CREDITS
21 CREDITS CMPT 200: Data Structures & their Algorithms <sup>3</sup> CMPT 291: Introduction to Relational Databases   CMPT 201: Programming Methodology CMPT 305: Object-Oriented Programming   CMPT 204: Algorithms I CMPT 395: Introduction to Software Engineering   CMPT 229: Computer Organization & Architecture CMPT 395: Introduction to Software Engineering   6 CREDITS CMPT 315: Web-Centric Computing & eCommerce   in CMPT 350: Human-Computer Interaction II   PROGRAMMING CMPT 362: Operating Systems II   CMPT 364: Net Centric Computing II	
3 CREDITS CMPT 496: Individual Project <sup>4</sup> CMPT 498: Team Project <sup>4</sup>	
GENERAL REQUIREMENTS <sup>5</sup>	12 - 24 CREDITS
CMPT 204: Algorithms ICMPT 351: HumaCMPT 220: Unix, Scripting & Other ToolsCMPT 355: IntrodCMPT 229: Computer Organization & ArchitectureCMPT 360: OperaCMPT 230: Introduction to Computer GamesCMPT 361: IntrodCMPT 250: Human-Computer Interaction ICMPT 362: OperaCMPT 272: Formal Systems & LogicCMPT 364: Net CCMPT 291: Introduction to Relational DatabasesCMPT 370: IntrodCMPT 305: Object-Oriented ProgrammingCMPT 385: IntrodCMPT 306: Non-Procedural ProgrammingCMPT 391: DatabasesCMPT 310: Computers & SocietyCMPT 399: TopicCMPT 311: Phenomenon TechnologyCMPT 430: 3D GatabaseCMPT 330: Introduction to Real Time GamingCMPT 496: IndivideCMPT 340: Numerical MethodsCMPT 498: Team	entric Computing II duction to Computer Graphics duction to Database Concepts base Management Systems es in Computer Science <sup>4</sup> ame Development & Artificial Intelligence nining and Advanced Databases dual Project <sup>4</sup>

## > Important! Please see the back of this page for planning notes. $\prec$

This planning sheet should be used only as a **guide** for course planning and it should be used in conjunction with the Bachelor of Science Degree Planner. Remember: not all courses listed are offered each year and course offerings are subject to change. In the event of a discrepancy between the information presented on this sheet and that available on myStudentSystem, the information on myStudentSystem will be considered accurate.

## **IMPORTANT PLANNING NOTES**

- 1. These courses can be used to satisfy core requirements in the Bachelor of Science degree.
- The prerequisites for CMPT 103 are CMPT 101 or, at the high school level, three credits of intermediate CSE including CSE 2120. If students possess high school level prerequisites, they are required to complete 3 credits of junior level prerequisites for this major (CMPT 103). If students do not possess high school level prerequisites, they must complete 6 credits of junior level prerequisites (CMPT 101 and CMPT 103).
- Students who completed CMPT 114 and CMPT 115 as their prerequisite junior courses cannot take CMPT 200. Students in this situation who are taking the *general Computer Science major* will complete 27 credits of general requirements, instead of 24 credits. Students in this situation who are taking the *Software Professional stream* will complete 15 credits of general requirements instead of 12 credits.
- 4. Students may take CMPT 399, CMPT 496, CMPT 498 and CMPT 499 for credit a maximum of two times, as long as the course topic is different each time they take any of the courses.
- 5. Students who have chosen the *general Computer Science major* must take 24 credits of general requirements. Students who have chosen the *Software Professional stream* must takes 12 credits of general requirements. Please note the caveat to this requirement, explained above.