

## Bachelor of Science - Computer Science Minor 2011/2012 academic year

Total credits required for minor = 18 senior-level credits (non-duplicative coursework)

### Prerequisite Junior Courses (6 credits):

- CMPT 101: Introduction to Computing I
- CMPT 103: Introduction to Computing II

**Note:** These courses may be used to satisfy part of the Science Degree junior core requirements. Additional prerequisites may be required for other courses in this minor. Please consult the course descriptions in the MacEwan calendar.

**\*\*Students who have previously completed CMPT 114 and/or CMPT 115 must see an advisor regarding program planning\*\***

### Senior-level Courses Satisfying Minor Requirement (18 credits)

#### Required Senior Courses (6 credits) :

##### 3 credits:

- CMPT 200: Data Structure and Their Algorithms

##### 3 credits from the following:

- CMPT 201: Programming Methodology
- CMPT 204: Algorithms I
- CMPT 291: File and Database Management

#### General Requirements (12 credits):

##### 12 credits from the following (non-duplicative):

**Note:** A minimum of 6 credits must be completed at the 300 or 400 level

- CMPT 201: Programming Methodology
- CMPT 204: Algorithms I
- CMPT 220: Unix, Scripting and Other Tools
- CMPT 229: Computer Organization and Structure
- CMPT 230: Introduction to Computer Games
- CMPT 250: Human-Computer Interaction I
- CMPT 272: Formal Systems and Logic
- CMPT 291: File and Database Management
- CMPT 305: Object-Orientated Programming
- CMPT 306: Non-Procedural Programming
- CMPT 315: Web-centric Computing and eCommerce
- CMPT 330: Introduction to Real Time Gaming
- CMPT 340: Numerical Methods
- CMPT 350: Human-Computer Interaction II
- CMPT 355: Introduction to Artificial Intelligence
- CMPT 360: Operating Systems and Net Centric Computing I
- CMPT 362: Operating Systems II
- CMPT 364: Net Centric Computing II
- CMPT 370: Introduction to 3D Computer Graphics
- CMPT 385: Introduction to Database Concepts
- CMPT 395: Introduction to Software Engineering
- CMPT 496: Individual Project
- CMPT 498: Team Project
- CMPT 399: Special Topics
- CMPT 499: Special Topics

**Note: Not all courses listed are offered each year.**