# Bachelor of Science – Computing and Information Systems Major – Web Development Minor – Post Diploma

## Four Year (120 credits)

**2025/2026** [Program Requirements](https://www.athabascau.ca/calendar/2025/undergraduate/program-regulations/degrees/bachelor-of-science-computing-and-information-systems-major-post-diploma.html) –Effective September 1, 2025

This program plan will assist you in planning your program. You must follow the official program requirements for the calendar year in which you are enrolled.  
  
Please contact [FST Student Success Centre](http://scis.athabascau.ca/contact-us/index.php) for program planning assistance.

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| **Course Level Legend** JUNIOR / JR - 200 numbered course SENIOR / SR - 300 or 400 numbered course PREPARATORY - 100 numbered course | **Course Progress Legend** TR - Transfer Credit Awarded C - Completed AU Course IP - In Progress AU Course |

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| **LEVEL** | **TOTAL CREDITS** | **COURSE** | **REQUIREMENT** | **COURSE  PROGRESS** | **COMMENTS** |
| Junior | 3 | [ENGL 255](http://www.athabascau.ca/syllabi/engl/engl255.php) | Required Core  English Writing Requirement |  | [Humanities](https://www.athabascau.ca/course/index.html?/undergraduate/humanities/all/) – ENGL 255 is strongly recommended, can choose a different ENGL course as long as a minimum grade of B- is achieved. |
| Junior | 6 | [MATH 215](http://www.athabascau.ca/html/syllabi/math/math215.htm) or [MATH 216](http://www.athabascau.ca/html/syllabi/math/math216.htm) | Required Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 9 | [MATH 265](http://www.athabascau.ca/html/syllabi/math/math265.htm) or [MATH 270](https://www.athabascau.ca/syllabi/math/math270.html) | Required Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – MATH 270 is required for students wanting to take [COMP 400](https://www.athabascau.ca/syllabi/comp/comp400.html) |
| Junior | 12 | [COMP 200](http://www.athabascau.ca/syllabi/comp/comp200.php) | Required Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 15 | [COMP 206](https://www.athabascau.ca/syllabi/comp/comp206.html) or [COMP 218](https://www.athabascau.ca/syllabi/comp/comp218.html) or [COMP 268](https://www.athabascau.ca/syllabi/comp/comp268.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – see programming note below |
| Junior | 18 | [COMP 272](https://www.athabascau.ca/syllabi/comp/comp272.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 21 | [COMP 214](https://www.athabascau.ca/syllabi/comp/comp214.html) | Minor Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 24 | [COMP 266](https://www.athabascau.ca/syllabi/comp/comp266.html) | Minor Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 27 | [COMP](https://www.athabascau.ca/course/index.html?/undergraduate/science/computer-science/) | Minor Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 30 | [COMP](https://www.athabascau.ca/course/index.html?/undergraduate/science/computer-science/) | Minor Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 33 | [COMP 466](https://www.athabascau.ca/syllabi/comp/comp466.html) | Minor Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Jr/Sr | 36 | [COMP](https://www.athabascau.ca/course/index.html?/undergraduate/science/computer-science/) | Minor Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – see list below |
| Jr/Sr | 39 | [COMP](https://www.athabascau.ca/course/index.html?/undergraduate/science/computer-science/) | Minor Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – see list below |
| Jr/Sr | 42 | [COMP](https://www.athabascau.ca/course/index.html?/undergraduate/science/computer-science/) | Minor Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – see list below |
| Senior | 45 | [PHIL 333](http://www.athabascau.ca/html/syllabi/phil/phil333.htm) or [PHIL 371](http://www.athabascau.ca/html/syllabi/phil/phil371.htm) | Required Core |  | [Humanities](https://www.athabascau.ca/course/index.html?/undergraduate/humanities/all/) |
| Senior | 48 | [SCIE 326](http://www.athabascau.ca/html/syllabi/scie/scie326.htm) | Required Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 51 | [COMP 314](https://www.athabascau.ca/syllabi/comp/comp314.html) | Major core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 54 | [COMP 347](https://www.athabascau.ca/syllabi/comp/comp347.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 57 | [COMP 361](https://www.athabascau.ca/syllabi/comp/comp361.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 60 | [COMP 378](https://www.athabascau.ca/syllabi/comp/comp378.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 63 | [COMP](https://www.athabascau.ca/course/index.html?/undergraduate/science/computer-science/) | Major Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – feel free to explore the link for COMP specialties |
| Senior | 66 | [COMP](https://www.athabascau.ca/course/index.html?/undergraduate/science/computer-science/) | Major Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 69 | [COMP](https://www.athabascau.ca/course/index.html?/undergraduate/science/computer-science/) | Major Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 72 | [COMP](https://www.athabascau.ca/course/index.html?/undergraduate/science/computer-science/) | Major Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 75 | [COMP](https://www.athabascau.ca/course/index.html?/undergraduate/science/computer-science/) | Major Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 78 | [COMP](https://www.athabascau.ca/course/index.html?/undergraduate/science/computer-science/) | Major Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 81 | [COMP](https://www.athabascau.ca/course/index.html?/undergraduate/science/computer-science/) | Major Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 84 | [COMP 482](https://www.athabascau.ca/syllabi/comp/comp482.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 87 | [COMP 494](http://www.athabascau.ca/syllabi/comp/comp494.php) | Required Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 90 | [COMP 495](https://www.athabascau.ca/syllabi/comp/comp495.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – should be the last or within the last set of courses in the program. |
|  | 93 - 120 | Block of 30 Transfer Credits | | | |

Looking for suggestions on what COMP courses to take? [Explore our suggested COMP course list for specializations.](https://www.athabascau.ca/science-and-technology/resources/school-of-computing-information-systems/scis-elective-course-list-for-specializations.html)

**Overall Program Requirements**

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| **Minimums** |
| 30 credits – Residency requirement (courses through AU) |
| 15 credits – Residency requirement in the major (courses through AU) |
| 9 credits – Residency Requirement in the minor (courses through AU) |
| 45 credits – **Senior** (300/400) level |
| 60 credits – **Science credits** |
| 36 credits – **Senior** (300/400) level **Science** |
| 12 credits – **Senior Science credits at the 400 level** |
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| **Maximums** |
| 0 credits – At the preparatory (100) level |
| 75 credits – In **any one Science discipline** |
| 12 credits – Senior project credits (495/496) |
| 30 credits – Prior Learning Assessment and Recognition (PLAR) |

**NOTE: Choosing a programming course**

**COMP 268: Introduction to Computer Programming (Java)**

Java is a reliable and multi-platform programming language, widely used in computing and information systems including web, mobile, and cloud applications and enterprise-level development. It has been a core programming language in many universities. You may choose this course if you don’t have a preference for other programming languages.

**COMP 206: Introduction to Computer Programming (C++)**

C++ is often a desired language in computer systems and game programming, or anything that is considered "computationally intensive". It can provide low-level control and high-performance code for software-hardware interfaces, operating systems, computer graphics, and high-performance computing. Students who are interested in game programming, computer graphics, embedded systems, and computer system level programming may choose this course.

**COMP 218: Introduction to Computer Programming with Python**

Python is relatively easy to learn and use. It has extensive library support and is commonly adopted in many computing and its application areas including machine learning. Python is recommended for students who would take AI and machine learning, data analysis, and other related computing courses and minors.

**NOTE: Web Development Minor Electives** – Students complete a minimum of 9 credits selected from the list of courses below:

[COMP 206](https://www.athabascau.ca/syllabi/comp/comp206.html), [COMP 268](https://www.athabascau.ca/syllabi/comp/comp268.html), [COMP 306](https://www.athabascau.ca/syllabi/comp/comp306.html), [COMP 308](https://www.athabascau.ca/syllabi/comp/comp308.html), [COMP 348](https://www.athabascau.ca/syllabi/comp/comp348.html), [COMP 400](https://www.athabascau.ca/syllabi/comp/comp400.html), COMP 409, [COMP 435](https://www.athabascau.ca/syllabi/comp/comp435.html), [COMP 470](https://www.athabascau.ca/syllabi/comp/comp470.html), [COMP 486](https://www.athabascau.ca/syllabi/comp/comp486.html), [COMP 489](https://www.athabascau.ca/syllabi/comp/comp489.html)