# Bachelor of Science, Applied Mathematics Major, Learning Technology Minor

## Four Year (120 credits)

**2025/2026** [Program Requirements](https://www.athabascau.ca/calendar/2025/undergraduate/program-regulations/degrees/bachelor-of-science-applied-mathematics-major.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; students can choose a different junior or senior 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) | Required Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 12 | [COMP 200](http://www.athabascau.ca/syllabi/comp/comp200.php) or [COMP 210](http://www.athabascau.ca/syllabi/comp/comp210.php) | Required Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – if you plan to take more COMP courses, we recommend completing COMP 200. |
| Junior | 15 | [MATH 270](https://www.athabascau.ca/syllabi/math/math270.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 18 | [MATH 266](https://www.athabascau.ca/syllabi/math/math266.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 21 | [MATH 271](https://www.athabascau.ca/syllabi/math/math271.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Jr/Sr | 24 | [MATH](https://www.athabascau.ca/course/index.html?/undergraduate/science/mathematics/) | Major Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 27 | [EDPY 200](http://www.athabascau.ca/html/syllabi/math/math215.htm) | Minor Core |  | [Applied Studies](https://www.athabascau.ca/course/index.html?/undergraduate/applied-studies/all/) |
| Junior | 30 | [COMP 214](http://www.athabascau.ca/html/syllabi/math/math265.htm) | Minor Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 33 | [COMP 266](https://www.athabascau.ca/course/index.html) | Minor Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Jr/Sr | 36 |  | Minor Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) / [Applied Studies](https://www.athabascau.ca/course/index.html?/undergraduate/applied-studies/all/) / [Social Science](https://www.athabascau.ca/course/index.html?/undergraduate/social-science/all/) – see NOTE: Learning Technology Minor electives below |
| Jr/Sr | 39 |  | Minor Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) / [Applied Studies](https://www.athabascau.ca/course/index.html?/undergraduate/applied-studies/all/) / [Social Science](https://www.athabascau.ca/course/index.html?/undergraduate/social-science/all/) – see NOTE: Learning Technology Minor electives below |
| Jr/Sr | 42 |  | Minor Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) / [Applied Studies](https://www.athabascau.ca/course/index.html?/undergraduate/applied-studies/all/) / [Social Science](https://www.athabascau.ca/course/index.html?/undergraduate/social-science/all/) – see NOTE: Learning Technology Minor electives below |
| Jr/Sr | 45 |  | Option |  | [Social Science](https://www.athabascau.ca/course/index.html?/undergraduate/social-science/all/) |
| Jr/Sr | 48 |  | Option |  | [Social Science](https://www.athabascau.ca/course/index.html?/undergraduate/social-science/all/) |
| Senior | 51 | [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 | 54 | [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 | 57 | [MATH 309](https://www.athabascau.ca/syllabi/math/math309.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 60 | [MATH 315](https://www.athabascau.ca/syllabi/math/math315.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 63 | [MATH 365](https://www.athabascau.ca/syllabi/math/math365.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 66 | [MATH 366](https://www.athabascau.ca/syllabi/math/math366.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 69 | [MATH 370](https://www.athabascau.ca/syllabi/math/math370.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 72 | [MATH 376](https://www.athabascau.ca/syllabi/math/math376.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 75 | [MATH 476](https://www.athabascau.ca/syllabi/math/math476.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 78 | [MATH](https://www.athabascau.ca/course/index.html?/undergraduate/science/mathematics/) | Major Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 81 | [MATH](https://www.athabascau.ca/course/index.html?/undergraduate/science/mathematics/) | Major Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 84 | [EDPY 310](https://www.athabascau.ca/syllabi/edpy/edpy310.html) | Minor Core |  | [Applied Studies](https://www.athabascau.ca/course/index.html?/undergraduate/applied-studies/all/) |
| Senior | 87 |  | Option |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 90 |  | 400 Level Option |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 93 |  | Option |  | [Any Area of Study](https://www.athabascau.ca/course/index.html?/undergraduate/all/all/) |
| Senior | 96 |  | Option |  | [Any Area of Study](https://www.athabascau.ca/course/index.html?/undergraduate/all/all/) |
| Senior | 99 |  | Option |  | [Any Area of Study](https://www.athabascau.ca/course/index.html?/undergraduate/all/all/) |
| Senior | 102 |  | Option |  | [Any Area of Study](https://www.athabascau.ca/course/index.html?/undergraduate/all/all/) |
| Senior | 105 |  | Option |  | [Any Area of Study](https://www.athabascau.ca/course/index.html?/undergraduate/all/all/) |
| Senior | 108 |  | Option |  | [Any Area of Study](https://www.athabascau.ca/course/index.html?/undergraduate/all/all/) |
| Senior | 111 | [SCIE 480](http://www.athabascau.ca/syllabi/scie/scie480.php) or [COMP 494](http://www.athabascau.ca/syllabi/comp/comp494.php) | Required Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 114 | [MATH 480](https://www.athabascau.ca/syllabi/math/math480.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 117 | [MATH 495](https://www.athabascau.ca/syllabi/math/math495.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 120 | [EDPY 480](https://www.athabascau.ca/syllabi/edpy/edpy480.html) | Minor Core |  | [Applied Studies](https://www.athabascau.ca/course/index.html?/undergraduate/applied-studies/all/) |

**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) |
| 72 credits – **Senior** (300 or 400) level |
| 72 credits – **In Science** |
| 45 credits – **Senior** (300 or 400) level **Science** |
| 15 credits – **Senior 400 level Science** |
| 6 credits – In Social Science |
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| **Maximums** |
| 6 credits – At the preparatory (100) level |
| 75 credits – In **any one Science discipline** |
| 12 credits – Amount of senior project credits (495 or 496) |
| 30 credits – Prior Learning Assessment and Recognition (PLAR) |

**NOTE: Learning Technology Minor Electives**

Students must complete a minimum of 9 credits from the following disciplines:

- Computer Science ([COMP](https://www.athabascau.ca/course/index.html?/undergraduate/science/computer-science/https://www.athabascau.ca/course/index.html?/undergraduate/science/environmental-science/))  
- Education ([EDUC](https://www.athabascau.ca/course/index.html?/undergraduate/all/education/))  
- Educational Psychology ([EDPY](https://www.athabascau.ca/course/index.html?/undergraduate/all/educational-psychology/))  
- Psychology ([PSYC](https://www.athabascau.ca/course/index.html?/undergraduate/all/psychology/))

If selecting [COMP](https://www.athabascau.ca/course/index.html?/undergraduate/science/computer-science/https://www.athabascau.ca/course/index.html?/undergraduate/science/environmental-science/) or [PSYC](https://www.athabascau.ca/course/index.html?/undergraduate/all/psychology/) courses, students may only choose from the courses listed below. The courses with asterisks \* are recommended over courses without.

Courses that are easily demonstrated to have mainly Learning Technology content may be considered towards the elective credit requirements.

Psychology: [PSYC 210](https://www.athabascau.ca/syllabi/psyc/psyc210.html)\*, [PSYC 355](https://www.athabascau.ca/syllabi/psyc/psyc355.html)\*, [PSYC 387,](https://www.athabascau.ca/syllabi/psyc/psyc387.html) [PSYC 389](https://www.athabascau.ca/syllabi/psyc/psyc389.html), [PSYC 401](https://www.athabascau.ca/syllabi/psyc/psyc401.html)\*

Computer Science: [COMP 206](https://www.athabascau.ca/syllabi/comp/comp206.html), [COMP 210](https://www.athabascau.ca/syllabi/comp/comp210.html), [COMP 230](https://www.athabascau.ca/syllabi/comp/comp230.html)\*, [COMP 268](https://www.athabascau.ca/syllabi/comp/comp268.html)\*, [COMP 282](https://www.athabascau.ca/syllabi/comp/comp282.html), [COMP 283](https://www.athabascau.ca/syllabi/comp/comp283.html), [COMP 306](https://www.athabascau.ca/syllabi/comp/comp306.html), [COMP 308](https://www.athabascau.ca/syllabi/comp/comp308.html), [COMP 318](https://www.athabascau.ca/syllabi/comp/comp318.html)\*, [COMP 361](https://www.athabascau.ca/syllabi/comp/comp361.html)\*, [COMP 369](https://www.athabascau.ca/syllabi/comp/comp369.html), [COMP 390](https://www.athabascau.ca/syllabi/comp/comp390.html), [COMP 410](https://www.athabascau.ca/syllabi/comp/comp410.html), [COMP 435](https://www.athabascau.ca/syllabi/comp/comp435.html)\*, [COMP 452](https://www.athabascau.ca/syllabi/comp/comp452.html), [COMP 456](https://www.athabascau.ca/syllabi/comp/comp456.html), [COMP 466](https://www.athabascau.ca/syllabi/comp/comp466.html)\*, [COMP 482](https://www.athabascau.ca/syllabi/comp/comp482.html)\*, [COMP 494](https://www.athabascau.ca/syllabi/comp/comp494.html), [COMP 495](https://www.athabascau.ca/syllabi/comp/comp495.html)\*