# Bachelor of Science (Post Diploma), Applied Mathematics Major, Human Science 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-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** |
|  | 3 – 30 | **Block of 30 Transfer Credits Awarded** | | | |
| Junior | 33 | [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 | 36 | [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 | 39 | [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 | 42 | [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/) |
| Junior | 45 | [MATH 270](https://www.athabascau.ca/syllabi/math/math270.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 48 | [MATH 266](https://www.athabascau.ca/syllabi/math/math266.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 51 | [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 | 54 | [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 | 57 – 60 | [BIOL 235](https://www.athabascau.ca/syllabi/biol/biol235.html)  (**6 credits**) | Minor Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 63 | [HLST 200](https://www.athabascau.ca/syllabi/hlst/hlst200.html) | Minor Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Jr/Sr | 66 |  | Minor Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – see NOTE: Human Science Minor electives below |
| Jr/Sr | 69 |  | Minor Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – see NOTE: Human Science Minor electives below |
| Jr/Sr | 72 |  | Minor Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – see NOTE: Human Science Minor electives below |
| Senior | 75 | [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 | 78 | [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 | 81 | [MATH 309](https://www.athabascau.ca/syllabi/math/math309.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 84 | [MATH 315](https://www.athabascau.ca/syllabi/math/math315.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 87 | [MATH 365](https://www.athabascau.ca/syllabi/math/math365.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 90 | [MATH 366](https://www.athabascau.ca/syllabi/math/math366.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 93 | [MATH 370](https://www.athabascau.ca/syllabi/math/math370.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 96 | [MATH 376](https://www.athabascau.ca/syllabi/math/math376.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 99 | [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 | 102 | [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 | 105 |  | Minor Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – see NOTE: Human Science Minor Electives below |
| Senior | 108 |  | Minor Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – see NOTE: Human Science Minor Electives below |
| 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 476](https://www.athabascau.ca/syllabi/math/math476.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 117 | [MATH 480](https://www.athabascau.ca/syllabi/math/math480.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 120 | [MATH 495](https://www.athabascau.ca/syllabi/math/math495.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/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) |
| 45 credits – **Senior** (300 or 400) level |
| 60 credits – **In Science** |
| 36 credits – **Senior** (300 or 400) level **Science** |
| 12 credits – **Senior 400 level Science** |
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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 or 496) |
| 30 credits – Prior Learning Assessment and Recognition (PLAR) |

**NOTE: Human Science Minor Electives**

Students complete a minimum of 15 credits in Human Science electives to be selected from the list of courses below. A minimum of 6 credits must be at the senior (300 or higher) level. Courses that are not listed here but which are easily demonstrated to be mainly Human Science content may be considered towards the credit requirements.

[BIOL 204](https://www.athabascau.ca/syllabi/biol/biol204.html) (lab component), [BIOL 205](https://www.athabascau.ca/syllabi/biol/biol205.html) (lab component), [BIOL 207](http://BIOL207) (lab component), [BIOL 310](https://www.athabascau.ca/syllabi/biol/biol310.html), [BIOL 320](https://www.athabascau.ca/syllabi/biol/biol320.html) (lab component), [BIOL 325](https://www.athabascau.ca/syllabi/biol/biol325.html) (lab component), [BIOL 341](https://www.athabascau.ca/syllabi/biol/biol341.html), [BIOL 345](https://www.athabascau.ca/syllabi/biol/biol345.html) (lab component), [BIOL 401](https://www.athabascau.ca/syllabi/biol/biol401.html), [BIOL 480](https://www.athabascau.ca/syllabi/biol/biol480.html) (lab component), [BIOL 495](https://www.athabascau.ca/syllabi/biol/biol495.html), [BIOL 496](https://www.athabascau.ca/syllabi/biol/biol496.html), [CHEM 301](https://www.athabascau.ca/syllabi/chem/chem301.html), [CHEM 350](https://www.athabascau.ca/syllabi/chem/chem350.html) (lab component), [CHEM 360](https://www.athabascau.ca/syllabi/chem/chem360.html) (lab component), [NUTR 330](https://www.athabascau.ca/syllabi/nutr/nutr330.html), [NUTR 405](https://www.athabascau.ca/syllabi/nutr/nutr405.html), [NUTR 495](https://www.athabascau.ca/syllabi/nutr/nutr495.html), [ANTH 278](https://www.athabascau.ca/syllabi/anth/anth278.html), [HLST 301](https://www.athabascau.ca/syllabi/hlst/hlst301.html), [PSYC 355](https://www.athabascau.ca/syllabi/psyc/psyc355.html), [PSYC 302](https://www.athabascau.ca/syllabi/psyc/psyc302.html)