# Bachelor of Science – Biological Sciences Major – Physical Sciences Minor – Post Diploma

## Four Year (120 credits)

**2023/2024** [**Program Requirements**](https://www.athabascau.ca/calendar/2023/undergraduate/program-regulations/degrees/bachelor-of-science-human-science-major-post-diploma.html) **-** Effective September 1, 2023

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 courseSENIOR / SR - 300 or 400 numbered coursePREPARATORY - 100 numbered course | **Course Progress Legend**TR - Transfer Credit AwardedC - Completed AU CourseIP - In Progress AU Course |

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| **LEVEL** | **TOTALCREDITS** | **COURSE** | **REQUIREMENT** | **COURSE PROGRESS** | **COMMENTS** |
| Junior | 3 | [ENGL255](http://www.athabascau.ca/syllabi/engl/engl255.php)  | Required CoreEnglish Wiring Requirement |  | [Humanities](https://www.athabascau.ca/course/index.html?/undergraduate/humanities/all/) – ENGL255 is strongly recommended, can choose a different ENGL course as long as a minimum grade of B- is achieved |
| Junior | 6 | [MATH215](http://www.athabascau.ca/html/syllabi/math/math215.htm) or [MATH216](http://www.athabascau.ca/html/syllabi/math/math216.htm) | Required Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 9 | [MATH265](http://www.athabascau.ca/html/syllabi/math/math265.htm) | Required Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 12 | [COMP210](http://www.athabascau.ca/syllabi/comp/comp210.php) or [COMP200](http://www.athabascau.ca/syllabi/comp/comp200.php) | Required Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – if you plan to take more COMP courses we recommend COMP200. |
| Junior | 15 | [BIOL204](https://www.athabascau.ca/syllabi/biol/biol204.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – Lab Component |
| Junior | 18 | [BIOL207](https://www.athabascau.ca/syllabi/biol/biol207.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – Lab Component |
| Junior | 21 | [BIOL230](https://www.athabascau.ca/syllabi/biol/biol230.html) or [BIOL235](https://www.athabascau.ca/syllabi/biol/biol235.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 27 | [HLST200](https://www.athabascau.ca/syllabi/hlst/hlst200.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 30 | [CHEM217](https://www.athabascau.ca/syllabi/chem/chem217.html) | Minor Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 33 | [CHEM218](https://www.athabascau.ca/syllabi/chem/chem218.html) | Minor Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 36 | [PHYS204](https://www.athabascau.ca/syllabi/phys/phys204.html) | Minor Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Junior | 39 | [PHYS205](https://www.athabascau.ca/syllabi/phys/phys205.html) | Minor Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Jr/Sr | 42 |  | Minor Elective |  | See list below |
| Jr/Sr | 45 |  | Minor Elective |  | See list below |
| Senior | 48 |  | Minor Elective |  | See list below |
| Senior | 51 |  | Minor Elective |  | See list below |
| Senior | 54 | [PHIL333](http://www.athabascau.ca/html/syllabi/phil/phil333.htm) or [PHIL371](http://www.athabascau.ca/html/syllabi/phil/phil371.htm) | Required Core |  | [Humanities](https://www.athabascau.ca/course/index.html?/undergraduate/humanities/all/) |
| Senior | 57 | [SCIE326](http://www.athabascau.ca/html/syllabi/scie/scie326.htm) | Required Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 60 | [BIOL341](https://www.athabascau.ca/syllabi/biol/biol341.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 63 | [BIOL401](https://www.athabascau.ca/syllabi/biol/biol401.html) | Major Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
| Senior | 66 |  | Major Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – see list below |
| Senior | 69 |  | Major Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – see list below |
| Senior | 72 |  | Major Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – see list below |
| Senior | 75 |  | Major Elective |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – see list below |
| Senior | 78 |  | Major 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/) – see list below |
| Senior | 81 |  | Major 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/) – see list below |
| Senior | 84 |  | Major Elective – Lab |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – Lab Component – see list below |
| Senior | 87 |  | Major Elective – Lab |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) – Lab Component – see list below |
| Senior | 90 | [SCIE480](http://www.athabascau.ca/syllabi/scie/scie480.php) or [COMP494](http://www.athabascau.ca/syllabi/comp/comp494.php) | Required Core |  | [Science](https://www.athabascau.ca/course/index.html?/undergraduate/science/all/) |
|  | 93 - 120 | Block of 30 Transfer Credits |

**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 – In Science |
| 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) |

**Biological Sciences Major Electives** – Students must complete a minimum of 24 credits selected from the list of courses below. All 24 credits must be at the senior (300 or higher) level. A minimum of 6 credits must include science lab components.

[BIOL310](https://www.athabascau.ca/syllabi/biol/biol310.html), [BIOL320](https://www.athabascau.ca/syllabi/biol/biol320.html) (lab component), [BIOL325](https://www.athabascau.ca/syllabi/biol/biol325.html) (lab component), [BIOL345](https://www.athabascau.ca/syllabi/biol/biol345.html) (lab component), [BIOL480](https://www.athabascau.ca/syllabi/biol/biol480.html) (lab component), [BIOL495](https://www.athabascau.ca/syllabi/biol/biol495.html), [BIOL496](https://www.athabascau.ca/syllabi/biol/biol496.html), [CHEM301](https://www.athabascau.ca/syllabi/chem/chem301.html), [CHEM350](https://www.athabascau.ca/syllabi/chem/chem350.html) (lab component), [CHEM360](https://www.athabascau.ca/syllabi/chem/chem360.html) (lab component), [CHEM495](https://www.athabascau.ca/syllabi/chem/chem495.html), [CHEM496](https://www.athabascau.ca/syllabi/chem/chem496.html), [HADM336](https://www.athabascau.ca/syllabi/hadm/hadm336.html), [HADM379](https://www.athabascau.ca/syllabi/hadm/hadm379.html), [HLST301](https://www.athabascau.ca/syllabi/hlst/hlst301.html), [NUTR330](https://www.athabascau.ca/syllabi/nutr/nutr330.html) or [NUTR331](https://www.athabascau.ca/syllabi/nutr/nutr331.html), [NUTR405](https://www.athabascau.ca/syllabi/nutr/nutr405.html), [NUTR406](https://www.athabascau.ca/syllabi/nutr/nutr406.html), [NUTR495](https://www.athabascau.ca/syllabi/nutr/nutr495.html), [NUTR496](https://www.athabascau.ca/syllabi/nutr/nutr496.html), [PSYC302](https://www.athabascau.ca/syllabi/psyc/psyc302.html), [PSYC355](https://www.athabascau.ca/syllabi/psyc/psyc355.html), [PSYC402](https://www.athabascau.ca/syllabi/psyc/psyc402.html) (closed)

**Recommended Options** - As the following courses are pre-requisites to some electives, they are recommended options for students in the Human Science major:

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| [CHEM217](https://www.athabascau.ca/syllabi/chem/chem217.html) (lab component), [CHEM218](https://www.athabascau.ca/syllabi/chem/chem218.html) (lab component) |

**Physical Sciences Minor Electives** – Students must complete a minimum of 12 credits from the following disciplines:

- Chemistry ([CHEM](https://www.athabascau.ca/course/index.html?/undergraduate/science/chemistry/))
- Physics ([PHYS](https://www.athabascau.ca/course/index.html?/undergraduate/science/physics/))
- Astronomy ([ASTR](https://www.athabascau.ca/course/index.html?/undergraduate/science/astronomy-and-astrophysics/))
- Geophysics\*

A minimum of 6 credits must be at the senior (300 or higher) level.

\*Note: AU does not currently offer Geophysics courses, but may accept external courses as transfer credit to be used towards the Physical Sciences electives.