



# PROGRAM PLANNING GUIDE

Name: \_\_\_\_\_

ID: 

## Bachelor of Science

### General Major in the Sciences



A general major in the sciences, unlike a single discipline major, allows you to customize your course selection to your interests and abilities. Where you compromise depth of focus in one area, you gain breadth of knowledge in a few key areas, thus increasing your flexibility. This multidisciplinary approach provides access to the "big picture" or the wider context of any subject area. Conversely, the courses you choose can enhance your focus and provide a cross-discipline perspective on one particular theme.

#### What determines my program requirements?

Please refer to the Academic Calendar ([www.ulethbridge.ca/ross/academic-calendar](http://www.ulethbridge.ca/ross/academic-calendar)) for complete program information.

**Calendar Year:** 2025/2026 - Your calendar year is set to the academic year you are admitted (or readmitted) and you should follow the requirements for that year for the duration of your program.

**Faculty/School:** Faculty of Arts and Science ([www.ulethbridge.ca/artsci](http://www.ulethbridge.ca/artsci))

**Program(s):** Bachelor of Science

**Major(s):** General Major in the Sciences

**Minor:** A defined set of courses, designed to provide depth in a particular discipline, study in an interdisciplinary area, or focus on a theme-related topic. To learn more about optional minors see [www.ulethbridge.ca/ross/minors](http://www.ulethbridge.ca/ross/minors).

#### Am I admissible to this program?

**Admission:** [www.ulethbridge.ca/ross/admissions/undergrad](http://www.ulethbridge.ca/ross/admissions/undergrad)

**Transfer:** [www.ulethbridge.ca/ross/transfer-resources](http://www.ulethbridge.ca/ross/transfer-resources)

#### When/How do I apply to the University?

**Deadlines:** [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)

**Step-by-Step:** [www.ulethbridge.ca/ross/admissions/step-by-step](http://www.ulethbridge.ca/ross/admissions/step-by-step)

#### Where can I find information on courses?

**Course Catalogue:** [www.ulethbridge.ca/ross/courses](http://www.ulethbridge.ca/ross/courses)

**Registration Guide:** [www.ulethbridge.ca/ross/registration-guide](http://www.ulethbridge.ca/ross/registration-guide)

#### When can I register for classes?

**Register early!** (March for Summer and Fall; November for Winter)

**Registration Dates:** [www.ulethbridge.ca/ross/registration-dates](http://www.ulethbridge.ca/ross/registration-dates)

#### How can I enhance my program?

**Career Bridge:** [www.ulethbridge.ca/career-bridge](http://www.ulethbridge.ca/career-bridge)

**Co-op Education:** [www.ulethbridge.ca/career-bridge/co-operative-education](http://www.ulethbridge.ca/career-bridge/co-operative-education)

**Honours Thesis:** [www.ulethbridge.ca/ross/undergraduate-thesis](http://www.ulethbridge.ca/ross/undergraduate-thesis)

**Double Major:** [www.ulethbridge.ca/ross/double-major](http://www.ulethbridge.ca/ross/double-major)

#### What supports are available to students?

**Student Services:** [www.ulethbridge.ca/campus-life/student-services](http://www.ulethbridge.ca/campus-life/student-services)

**Student Success Centre:** [www.ulethbridge.ca/student-success-centre](http://www.ulethbridge.ca/student-success-centre)

**Accessible Learning:** [www.ulethbridge.ca/ross/alc](http://www.ulethbridge.ca/ross/alc)

**Counselling Services:** [www.ulethbridge.ca/counselling](http://www.ulethbridge.ca/counselling)





## Required courses and notes

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### Major Requirements (20 Courses)

#### Choose disciplinary streams from the following list:

- Archaeology - all courses designated Science
- Biological Sciences - all Biology courses
- Chemistry - all courses (including courses in Biochemistry)
- Computer Science - all courses
- Geography - all courses designated Science
- Kinesiology - all courses designated Science (neither Kinesiology 1160 nor Kinesiology 1161 may be included)
- Mathematics - all courses (including courses in Statistics)
- Neuroscience - all courses
- Physics - all courses (including courses in Astronomy and Engineering; students must complete at least one course in Physics)
- Psychology - all courses designated Science

\_\_\_\_\_ **1.-5. First Disciplinary Stream:** \_\_\_\_\_

- \_\_\_\_\_ 1. \_\_\_\_\_
- \_\_\_\_\_ 2. \_\_\_\_\_
- \_\_\_\_\_ 3. \_\_\_\_\_
- \_\_\_\_\_ 4. \_\_\_\_\_
- \_\_\_\_\_ 5. \_\_\_\_\_

\_\_\_\_\_ **6.-10. Second Disciplinary Stream:** \_\_\_\_\_

- \_\_\_\_\_ 6. \_\_\_\_\_
- \_\_\_\_\_ 7. \_\_\_\_\_
- \_\_\_\_\_ 8. \_\_\_\_\_
- \_\_\_\_\_ 9. \_\_\_\_\_
- \_\_\_\_\_ 10. \_\_\_\_\_

\_\_\_\_\_ **11.-15. Third Disciplinary Stream:** \_\_\_\_\_

- \_\_\_\_\_ 11. \_\_\_\_\_
- \_\_\_\_\_ 12. \_\_\_\_\_
- \_\_\_\_\_ 13. \_\_\_\_\_
- \_\_\_\_\_ 14. \_\_\_\_\_
- \_\_\_\_\_ 15. \_\_\_\_\_

\_\_\_\_\_ **16.-19.** Four additional courses (12.0 credit hours) chosen from any of the Science disciplinary streams listed above

- \_\_\_\_\_ 16. \_\_\_\_\_
- \_\_\_\_\_ 17. \_\_\_\_\_
- \_\_\_\_\_ 18. \_\_\_\_\_
- \_\_\_\_\_ 19. \_\_\_\_\_

\_\_\_\_\_ **20. One of (Science in Human Affairs):**

- \_\_\_\_\_ Biochemistry 2300 - Elements of Human Nutrition
- \_\_\_\_\_ Biology 2500 - Biology and Society
- \_\_\_\_\_ Environmental Science 2000 - Fundamentals of Environmental Science
- \_\_\_\_\_ Philosophy 2233 - Philosophy and the World View of Science: Earth and Life Sciences
- \_\_\_\_\_ Philosophy 2234 - Philosophy and the World View of Science: Space, Time and Matter
- \_\_\_\_\_ Philosophy 3402 - Biomedical Ethics
- \_\_\_\_\_ Physics 2020 - The Physics of Everyday Life

\_\_\_\_\_ **REQ.** Of the 20 courses (60.0 credit hours) required in the major, seven courses (21.0 credit hours) must be at the 3000/4000 level.

### Notes

To determine if a given course in a disciplinary stream has a Science designation, see **School of Liberal Education** in the 2025/2026 University of Lethbridge Calendar, [www.ulethbridge.ca/ross/academic-calendar](http://www.ulethbridge.ca/ross/academic-calendar).

Some of the Science in Human Affairs courses have prerequisites which may or may not be included in the major.

### Electives (20 Courses)

\_\_\_\_\_ **21.-40.** Twenty additional courses (60.0 credit hours) chosen to complete program requirements

- \_\_\_\_\_ 21. \_\_\_\_\_
- \_\_\_\_\_ 22. \_\_\_\_\_
- \_\_\_\_\_ 23. \_\_\_\_\_
- \_\_\_\_\_ 24. \_\_\_\_\_
- \_\_\_\_\_ 25. \_\_\_\_\_
- \_\_\_\_\_ 26. \_\_\_\_\_
- \_\_\_\_\_ 27. \_\_\_\_\_
- \_\_\_\_\_ 28. \_\_\_\_\_
- \_\_\_\_\_ 29. \_\_\_\_\_
- \_\_\_\_\_ 30. \_\_\_\_\_
- \_\_\_\_\_ 31. \_\_\_\_\_
- \_\_\_\_\_ 32. \_\_\_\_\_
- \_\_\_\_\_ 33. \_\_\_\_\_
- \_\_\_\_\_ 34. \_\_\_\_\_
- \_\_\_\_\_ 35. \_\_\_\_\_
- \_\_\_\_\_ 36. \_\_\_\_\_
- \_\_\_\_\_ 37. \_\_\_\_\_
- \_\_\_\_\_ 38. \_\_\_\_\_
- \_\_\_\_\_ 39. \_\_\_\_\_
- \_\_\_\_\_ 40. \_\_\_\_\_



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### Liberal Education List Requirement

Only four courses (12.0 credit hours) in total may be counted from any one discipline toward the Lib Ed Requirement. Disciplines are identified by separate course subject codes. Cross-listed courses count toward the limit for both disciplines (e.g. IGBM 3250/INDG 3250 counts toward the limit for Dhillon School of Business courses and Indigenous Studies).

Only four courses (12.0 credit hours) in total from the Faculty of Education (EDUC), Faculty of Health Sciences (ADCS, HLSC, INHL, NURS, PUBH, and TREC), and the Dhillon School of Business (ACCT, AGEM, FINC, GLBU, HRLR, IGBM, MGT, and MKTG) may be counted towards the Lib Ed Requirement.

To determine if a course has a Liberal Education designation, see School of Liberal Education in the 2025/2026 University of Lethbridge Undergraduate Calendar, [www.ulethbridge.ca/ross/academic-calendar](http://www.ulethbridge.ca/ross/academic-calendar).

\_\_\_\_\_ **1.-4. List I: Fine Arts and Humanities**

- \_\_\_\_\_ 1. \_\_\_\_\_
- \_\_\_\_\_ 2. \_\_\_\_\_
- \_\_\_\_\_ 3. \_\_\_\_\_
- \_\_\_\_\_ 4. \_\_\_\_\_

\_\_\_\_\_ **5.-8. List II: Social Science**

- \_\_\_\_\_ 5. \_\_\_\_\_
- \_\_\_\_\_ 6. \_\_\_\_\_
- \_\_\_\_\_ 7. \_\_\_\_\_
- \_\_\_\_\_ 8. \_\_\_\_\_

\_\_\_\_\_ **9.-12. List III: Science**

- \_\_\_\_\_ 9. \_\_\_\_\_
- \_\_\_\_\_ 10. \_\_\_\_\_
- \_\_\_\_\_ 11. \_\_\_\_\_
- \_\_\_\_\_ 12. \_\_\_\_\_

### General Requirements

\_\_\_\_\_ A minimum of 40 courses (120.0 credit hours) with a GPA of at least 2.00.

\_\_\_\_\_ A maximum of five Independent Study courses (15.0 credit hours) may be completed for credit towards the degree.

\_\_\_\_\_ A maximum of five Disciplinary Credit Applied Studies courses (15.0 credit hours) may be completed for credit towards the degree. Students may, in addition, complete Applied Studies 2000, 2001, 2010, and 2011.

\_\_\_\_\_ A maximum of 24 courses (72.0 credit hours) may be completed from any one discipline for credit towards the degree. Disciplines are identified by a specific course label (e.g. KNES, ASTR, and HIST are separate disciplines).

\_\_\_\_\_ A maximum of 6.0 credit hours in Activity courses (i.e. courses labelled PHAC and MUSE) may be completed for credit towards the degree, except for Kinesiology majors (not more than 15.0 credit hours) and Music majors (not more than 12.0 credit hours).

\_\_\_\_\_ A maximum of six courses (18.0 credit hours) from disciplines offered outside the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education may be completed for credit towards the degree (i.e. labelled ACCT, ADCS, AGEM, CDEV, CRED, EDUC, FINC, GLBU, HLSC, HRLR, IGBM, INHL, MGT, MKTG, NURS, PUBH, and TREC). Courses cross-listed between the Faculty of Arts and Science and another Faculty or School do not count towards this limit.

\_\_\_\_\_ Residence requirement: a minimum of 20 courses (60.0 credit hours) must be completed at the University of Lethbridge, including at least 10 courses (30.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level. At least half of the courses required in the major must be completed at the University of Lethbridge.

A **maximum** of 12 courses (36.0 credit hours) may be completed at the 1000 level (or lower) for credit towards the degree, excluding Activity courses (labelled PHAC and MUSE) and courses numbered in the range of 0520 to 0530.

\_\_\_\_\_ **1.-12. Introductory Course Limit**

- \_\_\_\_\_ 1. \_\_\_\_\_
- \_\_\_\_\_ 2. \_\_\_\_\_
- \_\_\_\_\_ 3. \_\_\_\_\_
- \_\_\_\_\_ 4. \_\_\_\_\_
- \_\_\_\_\_ 5. \_\_\_\_\_
- \_\_\_\_\_ 6. \_\_\_\_\_
- \_\_\_\_\_ 7. \_\_\_\_\_
- \_\_\_\_\_ 8. \_\_\_\_\_
- \_\_\_\_\_ 9. \_\_\_\_\_
- \_\_\_\_\_ 10. \_\_\_\_\_
- \_\_\_\_\_ 11. \_\_\_\_\_
- \_\_\_\_\_ 12. \_\_\_\_\_

A **minimum** of 15 courses (45.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level, excluding Activity courses (labelled PHAC and MUSE). Out-of-faculty courses (i.e. labelled ACCT, ADCS, AGEM, CDEV, CRED, EDUC, FINC, GLBU, HLSC, HRLR, IGBM, INHL, MGT, MKTG, NURS, PUBH, and TREC) will not meet this requirement.

\_\_\_\_\_ **1.-15. Senior Course Requirement**

- \_\_\_\_\_ 1. \_\_\_\_\_
- \_\_\_\_\_ 2. \_\_\_\_\_
- \_\_\_\_\_ 3. \_\_\_\_\_
- \_\_\_\_\_ 4. \_\_\_\_\_
- \_\_\_\_\_ 5. \_\_\_\_\_
- \_\_\_\_\_ 6. \_\_\_\_\_
- \_\_\_\_\_ 7. \_\_\_\_\_
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- \_\_\_\_\_ 12. \_\_\_\_\_
- \_\_\_\_\_ 13. \_\_\_\_\_
- \_\_\_\_\_ 14. \_\_\_\_\_
- \_\_\_\_\_ 15. \_\_\_\_\_

### Optional Minor:

For information about minors see **Minors** in the 2025/2026 University of Lethbridge Calendar, [www.ulethbridge.ca/ross/academic-calendar](http://www.ulethbridge.ca/ross/academic-calendar). Consult with an Academic Advisor if you wish to add a minor to your program.

\_\_\_\_\_ **1.-6. Required Courses**

- \_\_\_\_\_ 1. \_\_\_\_\_
- \_\_\_\_\_ 2. \_\_\_\_\_
- \_\_\_\_\_ 3. \_\_\_\_\_
- \_\_\_\_\_ 4. \_\_\_\_\_
- \_\_\_\_\_ 5. \_\_\_\_\_
- \_\_\_\_\_ 6. \_\_\_\_\_



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Shown below is the recommended sequence of courses for your degree. Consult timetables for course offerings, prerequisites, and corequisites before registering each term as some courses may have limited offerings (ie. once a year, alternating years, or only offered in the Fall or Winter terms).

Consult with an Academic Advisor in your faculty if you wish to alter this sequence with regard to the specifically listed courses.

**Note that this sequence was prepared based on course scheduling at the time of publication and may change during your studies.**

### First Year

- First Stream course
- First Stream course
- Second Stream course
- Second Stream course
- Third Stream course
- Lib Ed Requirement course
- Lib Ed Requirement course
- Lib Ed Requirement course
- Lib Ed Requirement course
- Lib Ed Requirement course

### Second Year

- First Stream course
- Second Stream course
- Third Stream course
- Science in Human Affairs course
- Science elective
- Lib Ed Requirement course
- Lib Ed Requirement course
- Lib Ed Requirement course
- Elective
- Elective

### Third Year

- First Stream course 3000/4000 level
- Second Stream course 3000/4000 level
- Third Stream course
- Science elective
- Science elective 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective
- Elective

### Fourth Year

- First Stream course 3000/4000 level
- Second Stream course 3000/4000 level
- Third Stream course
- Third Stream course 3000/4000 level
- Science elective 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level

**Note:** Students should ensure that prerequisites for senior courses in their chosen disciplinary streams are completed in the first two years. Please consult the current Calendar or Timetable and Registration Guide for prerequisites.