

Calendar Year: 2003-2004  
 Faculty: Arts & Science

The Faculty of Arts and Science offers General Majors in the Humanities, the Social Sciences and the Sciences. The main emphasis of the General Major is to provide a broad major that supports the ideal of liberal education without sacrificing focus and depth unduly.

**High School Courses**

Several university-level science courses have high school-level courses as recommended background or prerequisites. Students are advised to complete recommended background courses before registering in the university-level course; students *must* have successfully completed prerequisites before they may register in the university-level course.

Students pursuing a General Major in the Sciences should note the following recommended/required high school courses.

*UofL course    High school course*

**Biology**

- 1010    Biology 30, and Chemistry 30 or 0500
- 1020    *Recommended: Biology 30*
- 2000    Mathematics 30 or Pure Mathematics 30\* (and Biology 1010)
- 2200    Mathematics 30 or Pure Mathematics 30\* (and Biology 1020)

**Chemistry**

- 1000    Chemistry 30 or 0500, and Mathematics 30 or Pure Mathematics 30\*  
*Recommended: Mathematics 31*
- 2100    Chemistry 30 or 0500  
*Recommended: Chemistry 1000*

**Computer Science**

- 1620    Mathematics 30 or Pure Mathematics 30\*

**Mathematics**

- 1410    Mathematics 30 or Pure Mathematics 30\*
- 1510    Mathematics 30 or Pure Mathematics 30\*
- 1560    Mathematics 30 or Pure Mathematics 30\*  
*Recommended: Mathematics 31 and a blended grade of at least 75% in Mathematics 30 or Pure Mathematics 30*

**Physics**

- 1000    Physics 30, and Mathematics 30 or Pure Mathematics 30\*
- 1050    Mathematics 30 or Pure Mathematics 30\*  
*Recommended: A course in physical science at the 20 level or above*

**Statistics**

- 1770    Mathematics 30 or Pure Mathematics 30\*

*\*Students may use both Applied Mathematics 30 and a minimum grade of 75% in Athabasca University's Mathematics 101 instead of Mathematics 30 or Pure Mathematics 30.*

**Co-operative Education**

A Co-op option, requiring three work terms, is available. Students interested in the Co-operative Education/Internship program should contact the Coordinator of Co-operative Education in the Career Resources Centre (B610; tel. 403-382-7154) for further information.

# Program Planning Guide



The  
 University of  
 Lethbridge

*This program guide is designed to help you plan your degree program. The information should help you keep track of your progress in your major, electives and all your degree requirements. Please remember that this is only a guide and not a graduation check. Students are responsible for the accuracy of their own programs. The guide should be used in conjunction with the University of Lethbridge Calendar, which is the final authority on all questions regarding program requirements and academic regulations.*

Name: \_\_\_\_\_ ID: \_\_\_\_\_ E-Mail: \_\_\_\_\_

Advisor: \_\_\_\_\_ Date: \_\_\_\_\_ Calendar Year: 2003-2004

## REQUIREMENTS FOR THE GENERAL MAJOR IN THE SCIENCES

### The Program

The B.Sc. with a General Major in the Sciences requires 40 semester courses in total. You must complete 20 courses for the General Major. The remaining 20 courses are electives that will be outside your major.

### Transfer Credit

Remember that you may use both University of Lethbridge credit and credit transferred from another college or university to meet degree and major requirements. Transfer credit may be either specified or unspecified. Specified credit is indicated on your transcript by the subject name and the specific number of the course, e.g., Biology 1010, Chemistry 2500, etc. Unspecified credit (1XXX, 2XXX) is indicated by the subject name and level of the course in parentheses, e.g., Biology (1000 level), Chemistry (2000 level), etc.

Unspecified course credit means that the University of Lethbridge does not offer the same course you transferred in, but we recognize it and treat it as a regular course. An unspecified course would count as one of your maximum of 20 from one department, but it could not meet a specific course requirement. For example, if Geography 2700 is required in your program, you could not use Geography (2000 level) to fulfill that requirement.

### How do I use the guide?

When you have met one of the requirements, place a check mark beside it. When all the requirements are checked, you should have completed the major.

**For a General Major in the Sciences, choose three disciplinary streams from the following list:**

Archaeology - all courses

Biological Sciences

Biology - all courses

Chemistry - all courses (including courses in Biochemistry)

Computer Science - all courses

Geography - all courses designated Science (including courses in Geology)

Kinesiology - all courses designated Science (excluding Physical Activity courses)

Mathematics - all courses (including courses in Statistics)

Physics - all courses (including courses in Astronomy and Engineering)

Psychology - all courses designated Science

### Required Courses include:

\_\_\_\_\_ 1-5. FIVE courses in \_\_\_\_\_ (first disciplinary stream):

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

\_\_\_\_\_ 6-10. FIVE courses in \_\_\_\_\_ (second disciplinary stream):

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

\_\_\_\_ 11-15. FIVE courses in \_\_\_\_\_ (third disciplinary stream):

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

\_\_\_\_ 16-19. FOUR additional courses from List III: Science Courses on pages 73-74 of the 2003-2004 Calendar. These courses must be Science, but they do not have to be from one of your three chosen disciplines.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

\_\_\_\_ 20. ONE 'Science in Human Affairs' course from the following list:

\_\_\_\_\_ Biochemistry 2300 - Elements of Human Nutrition

\_\_\_\_\_ \*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 - Physics and Society

**Note:** The above courses have prerequisites and/or recommended backgrounds. Please check the current Calendar to make sure that you have the prerequisite for the course.

You may have chosen one of the above disciplines as one of your three disciplines for the General Major. If, for example, Physics is one of your disciplines, it would be logical for you to use Physics 2020 as your 'Science in Human Affairs' course. However, you must still take five Physics courses besides 2020. You cannot use the same course as both one of your five in the discipline and as your 'Science in Human Affairs' requirement.

\* Students who have taken Biology 2050 or Geography 2060 prior to 2000-2001 will have met this requirement. Credit is not allowed for Environmental Science 2000 and either Biology 2050 or Geography 2060.

\_\_\_\_ SEVEN courses of the 20 required for the major must be at the 3000/4000 level:

1. \_\_\_\_\_ 5. \_\_\_\_\_

2. \_\_\_\_\_ 6. \_\_\_\_\_

3. \_\_\_\_\_ 7. \_\_\_\_\_

4. \_\_\_\_\_

# SAMPLE COURSE SEQUENCING PLAN

## B.Sc. - GENERAL MAJOR IN THE SCIENCES (BIOLOGY, CHEMISTRY AND GEOGRAPHY)

Shown below is a sample sequence of courses for your degree. If you follow this plan, you should be able to graduate in four years, provided you complete five courses per semester. This is just one example of how you could complete your major and degree requirements; you may find that a different sequence works as well as this one.

### TERMS USED

**GLER course:** A course that could count toward the General Liberal Education Requirement. You may use courses in your major towards this 12-course requirement. See the 2003-2004 University of Lethbridge Calendar, Part 4 - Academic Regulations (pp.71-74) for complete information.

**Elective:** A course that you may choose freely from all those available and applicable to your program. Use courses inside or outside your major, bearing in mind any restrictions that may apply (e.g., a maximum of 20 courses from any one department).

**Note:** Biology, Chemistry and Geography have been used for illustration purposes. Plan accordingly with the disciplinary streams of your choice.

<b>YEAR ONE</b>	FALL	SPRING
	Biology 1010 Chemistry 1000 GLER course GLER course GLER course	Biology 1020* Biology 2000 Chemistry 2000 Geography 1000 GLER course

<b>YEAR TWO</b>	FALL	SPRING
	Biology 2000 level Chemistry 2000 level Mathematics 1560** GLER course GLER course	Chemistry 2000 level Geography 2000 level GLER course GLER course Elective

<b>YEAR THREE</b>	FALL	SPRING
	Biology 3000 level Chemistry 3000 level Geography 2000 level Science elective Elective	Geography 3000 level Science in Human Affairs requirement Science elective Elective 3000/4000 level Elective

<b>YEAR FOUR</b>	FALL	SPRING
	Biology 3000 level Geography 3000/4000 level Science elective 3000/4000 level Science elective Elective	Geography 3000/4000 level Science elective 3000/4000 level Science elective 3000/4000 level Elective Elective

\*Biology 1020 is a prerequisite or corequisite for Biology courses.

\*\*Mathematics 1560 is a prerequisite for some Chemistry courses. You could use it toward your four required Science electives for the General Major in the Sciences.

