

BACHELOR OF SCIENCE

FACULTY OF ARTS AND SCIENCE

UPDATED MARCH 2012

Majors in: Agricultural Biotechnology, Agricultural Studies, Archaeology & Geography, Biochemistry, Biological Sciences, Chemistry, Environmental Science, General Sciences, Geography, Mathematics, Neuroscience, Psychology, and Remote Sensing

Red Deer College offers one year of transferable courses to the following U of L Bachelor of Science majors: Agricultural Studies, Archaeology & Geography, Biochemistry, Chemistry, Environmental Science, Geography, Mathematics, and Neuroscience.

Two years of transferable courses are available for General Sciences, Agricultural Biotechnology, Biological Sciences, and Psychology majors.

This Academic Planning Guide highlights some points regarding admission and transfer to University of Lethbridge Bachelor of Science programs that may be started at RDC. You are strongly advised to read both the University of Lethbridge and Red Deer College Calendars and the *Alberta Transfer Guide* for all other necessary information. Please note that some of the courses listed in this guide have prerequisites. Please refer to the Course Description section of the Red Deer College Calendar for further information.

SUGGESTED COURSE PATTERNS

BSC GENERAL MAJOR

You must select *three* science disciplinary streams to complete a General Major in the Sciences. At Red Deer College you may choose from:

- Archaeology (designated Science)
- Biological Sciences (including courses in Biology, Genetics, Microbiology, and Zoology)
- Chemistry (including courses in Biochemistry)
- Computer Science
- Geography (designated Science)
- Kinesiology (designated Science)
- Mathematics
- Neuroscience
- Physics (including courses in Astronomy)
- Psychology (designated Science)

This major requires completion of a minimum of five Science courses in each chosen stream and at least 20 courses in total towards the major (at least 25 science courses in total towards BSc degree). At least half of the courses required in the major must be completed at U of L.

BSC GENERAL PROGRAM (continued)

The following pattern is an **example** for the BSc General program using Biological Sciences, Chemistry and Mathematics for the three selected science streams. **This is sample course sequence.** Substitute the Science courses shown with those from the three science streams you have chosen.

YEAR ONE	CREDITS
BIOL 217	(3)
BIOL 218	(3)
CHEM 211	(3)
CHEM 212	(3)
MATH 202 or 203	(3)
MATH 204	(3)
2 GLER (Fine Arts & Humanities): _____ _____	(3) (3)
2 GLER (Social Sciences) : _____ _____	(3) (3)
TOTAL	30

YEAR TWO	CREDITS
BIOL 317	(3)
BIOL 318	(3)
CHEM Elective	(3)
One of: MATH 221, STAT 251	(3)
2 GLER (Fine Arts & Humanities): _____ _____	(3) (3)
2 GLER (Social Sciences): _____ _____	(3) (3)
2 Electives: _____ _____	(3) (3)
TOTAL	30

BSC AGRICULTURAL BIOTECHNOLOGY MAJOR

YEAR ONE	CREDITS
BIOL 217	(3)
BIOL 218	(3)
CHEM 211	(3)
CHEM 212	(3)
ECON 201	(3)
MATH 202 or 203 or 221	(3)
3 GLER (Fine Arts & Humanities): _____ _____ _____	(3) (3) (3)
1 GLER (Social Sciences) : _____	(3)
TOTAL	30

YEAR TWO	CREDITS
BIOL 317	(3)
BIOL 318	(3)
CHEM 351	(3)
CHEM 352	(3)
PHYS 205 or 241	(3)
STAT 251 (Recommended)	(3)
4 Electives (Sciences recommended): _____	(3)
_____	(3)
_____	(3)
_____	(3)
TOTAL	30

NOTE: Students must complete both CHEM 351/352 to receive credit for CHEM 2500/2600 at UofL.

BSC AGRICULTURAL STUDIES MAJOR (ONE YEAR TRANSFER PROGRAM)

YEAR ONE	CREDITS
BIOL 217	(3)
BIOL 218	(3)
ECON 201	(3)
STAT 251	(3)
MATH 202 or 203 or PHYS 205	(3)
3 GLER (Fine Arts & Humanities): _____	(3)
_____	(3)
_____	(3)
2 GLER (Social Sciences) : _____	(3)
_____	(3)
TOTAL	30

BSC ARCHAEOLOGY & GEOGRAPHY MAJOR (ONE YEAR TRANSFER PROGRAM)

YEAR ONE	CREDITS
ANTH 200	(3)
ANTH 201	(3)
GEOG 230	(3)
GEOG 251	(3)
Language course (Other than English)	(3)
3 GLER (Fine Arts & Humanities): _____	(3)
_____	(3)
_____	(3)
2 Electives (Sciences recommended) : _____	(3)
_____	(3)
TOTAL	30

BSC BIOCHEMISTRY MAJOR (ONE YEAR TRANSFER PROGRAM)

YEAR ONE	CREDITS
BIOL 217	(3)
BIOL 218	(3)
CHEM 211	(3)
CHEM 212	(3)
MATH 202 or 203	(3)
MATH 204	(3)
PHYS 205 or 241	(3)
1 GLER (Social Science): _____	(3)
2 GLER (Fine Arts & Humanities): _____	(3)
_____	(3)
TOTAL	30

NOTE: Students planning to take Pre-Medicine or Pre-Veterinary Medicine must choose Physics 241.

BSC BIOLOGICAL SCIENCES MAJOR

YEAR ONE	CREDITS
BIOL 217	(3)
BIOL 218	(3)
CHEM 211	(3)
CHEM 212	(3)
MATH 202 or 203 or 221	(3)
STAT 251 (Recommended)	(3)
2 GLER (Fine Arts & Humanities): _____	(3)
_____	(3)
2 GLER (Social Sciences) : _____	(3)
_____	(3)
TOTAL	30

YEAR TWO	CREDITS
BIOL 317	(3)
BIOL 318	(3)
CHEM 351	(3)
CHEM 352	(3)
ENGL 219	(3)
1 GLER (Fine Arts & Humanities): _____	(3)
2 GLER (Social Sciences): _____	(3)
_____	(3)
2 Electives: _____	(3)
_____	(3)
TOTAL	30

NOTE: Students must complete CHEM 351/352 to receive credit for CHEM 2500/2600 at UofL.

BSC CHEMISTRY MAJOR (ONE YEAR TRANSFER PROGRAM)

YEAR ONE	CREDITS
CHEM 211	(3)
CHEM 212	(3)
MATH 202 or 203	(3)
MATH 204	(3)
MATH 221	(3)
PHYS 205 or 241	(3)
2 GLER (Fine Arts & Humanities): _____ _____	(3) (3)
2 GLER (Social Sciences): _____ _____	(3) (3)
TOTAL	30

BSC ENVIRONMENTAL SCIENCE MAJOR (ONE YEAR TRANSFER PROGRAM)

YEAR ONE	CREDITS
BIOL 217	(3)
BIOL 218	(3)
CHEM 211	(3)
CHEM 212	(3)
GEOG 230	(3)
GEOG 231	(3)
MATH 202,203, 221, or STAT 251	(3)
1 GLER (Fine Arts & Humanities): _____	(3)
2 GLER (Social Sciences) : _____ _____	(3) (3)
TOTAL	30

BSC GEOGRAPHY MAJOR (ONE YEAR TRANSFER PROGRAM)

YEAR ONE	CREDITS
ANTH 200	(3)
CHEM 211 or PHYS 241	(3)
BIOL 218	(3)
GEOG 230	(3)
GEOG 231	(3)
GEOG 251	(3)
One of: MATH 202, 203, 221, or STAT 251	(3)
2 GLER (Fine Arts & Humanities): _____ _____	(3) (3)
1 GLER (Social Sciences): _____ _____	(3)
TOTAL	30

BSC MATHEMATICS MAJOR (ONE YEAR TRANSFER PROGRAM)

YEAR ONE	CREDITS
MATH 202 or 203	(3)
MATH 204	(3)
MATH 221	(3)
STAT 251	(3)
3 GLER (Fine Arts & Humanities): _____	(3)
_____	(3)
_____	(3)
3 GLER (Social Sciences): _____	(3)
_____	(3)
_____	(3)
TOTAL	30

BSC NEUROSCIENCE MAJOR (ONE YEAR TRANSFER PROGRAM)

YEAR ONE	CREDITS
BIOL 217	(3)
BIOL 218	(3)
ENGL 219	(3)
PSYC 260 (Recommended)	(3)
PSYC 261 (Recommended)	(3)
PHYS 205 or 241	(3)
2 GLER (Fine Arts & Humanities): _____	(3)
_____	(3)
2 GLER (Social Sciences): _____	(3)
_____	(3)
TOTAL	30

BSC PSYCHOLOGY MAJOR

YEAR ONE	CREDITS
PSYC 260	(3)
PSYC 261	(3)
2 GLER (Fine Arts & Humanities): _____ _____	(3) (3)
3 GLER (Social Sciences): _____ _____ _____	(3) (3) (3)
3 Electives (Sciences recommended): _____ _____ _____	(3) (3) (3)
TOTAL	30

YEAR TWO	CREDITS
PSYC 312	(6)
PSYC 375	(3)
PSYC 341	(3)
PSYC 353	(3)
PSYC Elective (3000-level)	(3)
2 GLER (Fine Arts & Humanities): _____ _____	(3) (3)
2 Electives (Sciences recommended): _____ _____	(3) (3)
TOTAL	30

BSC REMOTE SENSING MAJOR (ONE YEAR TRANSFER PROGRAM)

YEAR ONE	CREDITS
GEOG 230	(3)
GEOG 231	(3)
PHYS 241	(3)
PHYS 247	(3)
MATH 202 or 203	(3)
MATH 204	(3)
MATH 221	(3)
2 GLER (Fine Arts & Humanities): _____ _____	(3) (3)
1 GLER (Social Sciences): _____	(3)
TOTAL	30

UNIVERSITY OF LETHBRIDGE GENERAL LIBERAL EDUCATION REQUIREMENT

The General Liberal Education Requirement (GLER) is a 12-course requirement for all University of Lethbridge undergraduate students. This requirement supports the liberal education philosophy of the University and ensures that students acquire breadth of knowledge encompassing a wide variety of disciplines. The General Liberal Education Requirement must be completed prior to graduation at the University of Lethbridge.

The courses listed below are Red Deer College courses that transfer to the University of Lethbridge in the area indicated. For example, ANTH 308 transfers to the U of L as a Linguistics course and is a Humanities classification; ANTH 356 transfers as either an Anthropology course (Social Science) or a Native American Studies course (Humanities); ANTH 200 and 306 transfer to the U of L as Archaeology courses, and are Science classifications. The remaining transferable Red Deer College Anthropology courses transfer as Anthropology courses and are Social Sciences classifications.

FINE ARTS & HUMANITIES	SCIENCES	SOCIAL SCIENCES
1. _____ 2. _____ 3. _____ 4. _____	1. _____ 2. _____ 3. _____ 4. _____	1. _____ 2. _____ 3. _____ 4. _____
<p>All <i>transferable</i> courses in the following subjects are classified as Fine Arts and Humanities (<i>excluding those courses listed as Sciences</i>):</p> <ul style="list-style-type: none"> ▪ ART ▪ CLAS ▪ COMM ▪ DRAM ▪ ENGL ▪ FILM ▪ FREN ▪ HIST ▪ INTD ▪ MUSI (not MUSE or MUSI 210, 213, and 214) ▪ MUSP ▪ PHIL ▪ SPAN <p>The following courses are also classified as Fine Arts and Humanities:</p> <ul style="list-style-type: none"> ▪ ANTH 308 ▪ ANTH 356 (can also transfer as Social Science) ▪ KNSS 205 ▪ POLI 308, 309, 310 ▪ SOCI 307 	<p>All <i>transferable</i> courses in the following subjects are classified as Sciences:</p> <ul style="list-style-type: none"> ▪ ASTR ▪ BIOC ▪ BIOL ▪ CHEM ▪ CMPT ▪ GENE ▪ MATH ▪ MICR ▪ PHYS ▪ PSIO ▪ STAT ▪ ZOOL <p>The following courses are also classified as Sciences:</p> <ul style="list-style-type: none"> ▪ ANTH 200, 306 ▪ BUS 306, 307 ▪ BADM 111, 207 ▪ GEOG 230, 231 ▪ KNSS 200, 201, 209, 220, 244, 307 ▪ NURS 215* ▪ PHIL 221, 222, 389, 364 ▪ PSYC 260, 312, 358, 368, 369, 375, 377 <p>*available to BSc Nursing students only</p>	<p>All <i>transferable</i> courses in the following subjects are classified as Social Sciences (<i>excluding those courses listed as Fine Arts and Humanities or Sciences</i>):</p> <ul style="list-style-type: none"> ▪ ANTH ▪ ECON ▪ GEOG ▪ KNSS (excluding KNSS 280) ▪ POLI ▪ PSYC ▪ SOCI <p>The following courses are also classified as Social Sciences:</p> <ul style="list-style-type: none"> ▪ BADM 281 ▪ FAM 315 (not FAM 322) <p><u>SEE NOTES ON PAGE 9.</u></p>

NOTES:

1. Two or more courses in a particular subject may transfer as the same course to the U of L (e.g., BIOL 201 and 217 both transfer to the U of L as BIOL 1010; students will not receive credit for both BIOL 201 and 217). Students are advised to consult the current Alberta Transfer Guide.
2. A maximum of four courses from one department may be used in meeting the General Liberal Education Requirement. Please refer to the 2011/2012 University of Lethbridge Calendar for complete information regarding this requirement.
3. Archaeology 1000 (RDC: ANTH 200), Psychology 1000 (PSYC 260), and Psychology 3720 (PSYC 368) are normally designated as Science courses, but may be designated as Social Science upon admission to the U of L according to what is most advantageous to the student, or after admission upon application to the Registrar's Office and Student Services (ROSS) at the U of L.
4. Courses which transfer as unspecified Arts and Science courses (e.g., PSYC 2xxx) will be designated as belonging to one of the three lists, based on the content of the course. This designation will be done by the Admissions Office at University of Lethbridge upon admission.

ADMISSION AND TRANSFER INFORMATION

NEW TRANSFER (COLLEGE) ADMISSION: If you have completed three or more transferable semester courses, you are considered to be a New Transfer applicant. Admission requirements vary depending on the number of transferable, post-secondary courses completed:

Eight or more transferable courses

- Admission GPA of at least 2.00 on the U of L 4.0 GPA scale, calculated on all completed, transferable, postsecondary courses.
- High school credentials are not required.

Five or more (but fewer than eight) transferable courses

- Basic high school admission average of at least 60%, calculated on five appropriate 30-level high school courses (see Part 1 – Admission, in the 2011/2012 U of L Calendar).
- Admission GPA of at least 2.00 on the U of L 4.0 GPA scale, calculated on all completed, transferable, postsecondary courses.

At least three (but fewer than five) transferable courses

- Basic high school admission average of at least 60%, calculated on five appropriate 30-level high school courses (see Part 1 – Admission, in the 2011/2012 U of L Calendar).
- Admission average is determined using a weighted average of the high school admission average and all completed, transferable, post-secondary courses.

Please note that some programs are competitive and possession of the minimum Admission Grade Point Average does not guarantee admission.

MINIMUM GRADE: The minimum transferable grade for an individual course to the University of Lethbridge is a 'D'; however a higher grade may be required for courses in some programs to meet degree requirements.

APPLICATION AND DOCUMENT DEADLINES: The University offers admission to qualified New Transfer applicants prior to the application deadline. Therefore, you are encouraged to apply well ahead of these deadlines. For detailed information, contact the Admissions Office at the University of Lethbridge at 403-382-7134.

COURSES TAKEN AT RDC IN SPRING OR SPRING/SUMMER terms that immediately precede your admission to the Fall term at U of L will *not* be used for admission purposes due to the U of L document deadline.

REPEATED COURSES: If you repeat a course at RDC, only the grade for the last attempt is used in determining the U of L Admission GPA.

INTRODUCTORY-LEVEL COURSES: A maximum of 30 transferable credits which transfer to the U of L at the 1000 level will be counted towards the degree. The University of Lethbridge does not grant transfer credit below the 1000 level.

RESIDENCY REQUIREMENT: To meet degree requirements, a minimum of 20 courses (60 credit hours), including the last 10 (30 credit hours) taken for credit toward the degree, must be taken at the U of L.

Students are required to complete half of the required courses in the major at the U of L. Therefore, for example, a 13-course major would mean that a student must complete a minimum of seven courses in the major at the U of L.

YEAR OF THE CALENDAR: Students who are continuously registered at RDC are normally admitted to the U of L under the current U of L Calendar. However, with respect to program requirements, RDC students may be treated as if they had been continuously registered at the U of L during the period in which they attended RDC. Students are governed by the current U of L Calendar in all other aspects (e.g., admission, fees, and general liberal education requirement). For more information, see the 2011/2012 U of L Calendar or contact the Registrar's Office and Student Services at the University of Lethbridge for more information (403) 320-5700. Students requiring RDC Academic Planning Guides for earlier years may access them online at <http://www.uleth.ca/ross/cppgs/rdc/cppg.html>.

STUDENTS WHO HAVE PREVIOUSLY BEEN REQUIRED TO WITHDRAW: Applicants who have been required to withdraw from this or any other post-secondary institution will not be considered for admission to the University of Lethbridge until at least one full year has elapsed. Applicants who have been required to withdraw more than once will normally not be considered for admission. However, recent evidence of superior transferable work and individual circumstances will be considered. Contact the Registrar's Office and Student Services at the University of Lethbridge for more information (403) 320-5700.

GENERAL REQUIREMENTS FOR BACHELOR OF SCIENCE

NOTE: These are *some* of the general requirements for the BSc at U of L; please read the U of L Calendar for additional important information (Part 7, Faculty of Arts and Science, Section 6.a).

1. Successful completion of *all courses* (120 credit hours) with a grade point average of at least 2.00.
2. At least 10 Arts and Science courses (30 credit hours) at the 3000/4000 level for credit toward the degree.
3. Please consult the U of L Calendar concerning limit on Activity courses (e.g., KPAC, KDNC).
4. Not more than 20 courses may be taken from one department for credit toward the degree.
5. At least half of the courses required in the major must be completed at U of L.
6. Generally a *maximum* of 30 credits junior (1000-level at UofL) courses may be taken for credit toward a BSc degree.

NOTE: Please consult the U of L Calendar for exceptions and refer to the **Alberta Transfer Guide** (<http://www.acat.gov.ab.ca>) to find out if a course is transferable to U of L and at what level a course transfers to U of L.

WHERE TO FIND MORE INFORMATION

Red Deer College: Chairperson, Department of Science	Warren Elgersma Office: 1607-E Phone: 403- 343-4052 Email: warren.elgersma@rdc.ab.ca
Department of Science	http://www.rdc.ab.ca/about_rdc/academic_departments/sciences
RDC Academic Advising:	www.rdc.ab.ca/academic_advising
RDC Website:	www.rdc.ab.ca
Alberta Transfer Guide:	www.acat.gov.ab.ca/
University of Lethbridge:	Phone: 403-329-5106 Fax: 403-380-1880 Main Website: http://www.uleth.ca
Faculty of Arts & Science Website:	http://www.uleth.ca/fas Email: artsci.advising@uleth.ca

PLEASE NOTE:

Be aware that you are responsible for ensuring that your registration is complete and appropriate and that your course choices comply with the program to which you have been admitted at RDC and/or to the university to which you wish to transfer (if applicable).

You are cautioned that any changes to your courses, your major or your transfer destination may adversely affect your transferable credit (if applicable), admission requirements for future programs, or eligibility to graduate from RDC. Consult with an academic advisor if you have any questions.

The function of academic advisors is to provide students with information and resources that enable them to make informed decisions relevant to their education. These resources include the RDC Calendar, the Academic Planning Guide for your chosen program and destination university (if applicable), the Alberta Transfer Guide and the calendar and contact information for your destination university (if applicable). Academic advisors will assist you in interpreting information from these resources or refer you to your destination university if appropriate. Students in university transfer programs are strongly advised to refer to the calendar of the university to which they wish to transfer and should contact appropriate university departments as required.