

**BACHELOR OF SCIENCE – BIOCHEMISTRY
UNIVERSITY OF ALBERTA
DONALD SCHOOL OF BUSINESS, SCIENCE AND TECHNOLOGY**

UPDATED: April 2022

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 Red Deer Polytechnic 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 Red Deer Polytechnic. Please consult with an Advisor if you have any questions.

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.

ADMISSION REQUIREMENTS AND PROGRAM DESCRIPTION

- See the Academic Calendar of your goal institution for admission requirements to their program

WHAT IS THIS GUIDE?

- This is an Academic Planning Guide, prepared by the Student Connect Centre to help you register for courses towards your desired program.
- If you are transferring to another institution to complete your degree, we strongly advise that you read the Academic Calendar of your destination institution for full information.

GRADUATION REQUIREMENTS:

- You must pass 20 term university transfer courses or a minimum of 60 credit hours and achieve a minimum cumulative GPA of 2.00 (62%) to receive a Diploma in University Transfer Studies.

MY MAJOR/TRANSFER UNIVERSITY IS NOT LISTED. WHAT SHOULD I DO?

This guide focuses on transfer to the University of Alberta (UAlberta) Bachelor of Science, Biochemistry program. To learn more about this major, please see UAlberta's [Biochemistry program](#).

UALBERTA OFFERS MULTIPLE WAYS TO EARN A BSC BIOCHEMISTRY DEGREE: WHAT ARE THESE AND WHAT DO THEY MEAN?

For many programs offered by the Faculty of Science at UAlberta, there are three ways to complete a degree. In most cases, the major differences in these routes start to become noticeable at year 3.

- *Honors* – This route typically requires students to maintain a specific course load and GPA to be eligible. Students primarily focus in their major during all years of study and engage in a Directed Research Project during years 3 and 4.

- *Specialization* – This route also typically requires students to maintain a specific course load and GPA to be eligible. Students primarily focus in their major during all years of study, but not engage in a Directed Research Project.
- *General* – This route requires students to complete both a Major and a Minor. Overall, students will explore courses in a broader range of disciplines than compared to an Honors/Specialization program.

WHAT IS A TERM? TERMS ARE THE PERIOD IN WHICH YOUR STUDIES TAKE PLACE. AT RDP, WE OFFER FOUR TERMS.

- Fall term (September through December)
- Winter Term (January through April)
- Spring term (May through June): Spring term is an optional, condensed term. Course offerings are limited.
- Summer Term (July through August): Summer term is an optional, condensed term. Course offerings are limited.

HOW MANY COURSES SHOULD I TAKE A TERM?

- The maximum number of courses you can take in the Fall or Winter terms is 5 courses and 2 courses in the Spring (optional).
- We encourage you to find the best course load for you to be successful in your courses and your program! However, we encourage you to check the course load requirements for your destination university and degree.
- To complete your program in four years, you would need to take the maximum number of courses per term (5 courses in the Fall and 5 courses in the Winter), or 10 course per year. Some students will complete 10 courses in a year by taking 4 courses in the Fall, 4 courses in the Winter, and 2 courses in the Spring (or a combination thereof).
- When determining your course load keep your funding in mind, if applicable. For course load requirements for funding purposes, please visit www.rdpolytech.ca/psfunding.

WHAT HAPPENS IF I TAKE LESS THAN 10 COURSES A YEAR?

- You may need an extra term or year to complete your program.

WHAT IF I COMPLETED COURSES AT ANOTHER POST-SECONDARY INSTITUTION?

Once you are admitted to RDP, you can then apply to have your post-secondary courses assessed for transfer credit through our [Recognition of Prior Learning Office](#). Once admitted to RDP you can complete an [RPL application form](#), provide the Polytechnic Assessors with any and all transcripts, course outlines/descriptions, or other documentation necessary to support your PLAR application.

- **NOTE:** To qualify for a Red Deer Polytechnic program credential, students must complete at least 50% of the credit requirements for the credential through enrolment in RDP courses.

REGISTRATION AND PROGRAM AUDIT

- Refer to the **Registration** tab on your Loop account to view **Registration Tips and Tricks** for information on:
 - Registering in classes
 - Waitlisting
 - Checking Prerequisites and Corequisites
 - Courses listed as **prerequisites** must be completed before you start the course in question.
 - Courses listed as **co-requisites** must be taken at the same time as the course in question.
 - Viewing Your Schedule
 - And much more!

- After you have completed your registration, if you would like an advisor to review your registration please submit a [Registration Review Form](#).

SUGGESTED COURSE SEQUENCE AND CHECKLIST

| REQUIREMENT | PREREQUISITE(S) | COMMENTS | DONE |
|--------------------------------------|-----------------------|---|------|
| CHEM 211 (3 credits) | CHEM 30 and MATH 30-1 | | |
| BIOL 217 (3 credits) | BIOL 30 and CHEM 30 | | |
| MATH/STAT/PHYSICS REQUIREMENT | | See Important Note 2 | |
| ARTS ELECTIVE OR PHYS 205 | | Honors take PHYS 205 See Important Note 2 | |
| ENGL 219 (3 credits) | ELA 30-1 | | |
| CHEM 212 (3 credits) | CHEM 211 | See Important Note 1 | |
| CHEM 351 (3 credits) | CHEM 211 or CHEM 102 | Antirequisite: Chem 251 See Important Note 1 | |
| MATH/STAT/PHYSICS REQUIREMENT | | See Important Note 2 | |
| ARTS ELECTIVE OR PHYS 205 | | Honors take PHYS 226 See Important Note 2 | |
| ENGL 220 | ENGL 219 | | |

RECOMMENDED COURSE SEQUENCE

| FIRST TERM | SECOND TERM |
|---|---|
| CHEM 211 | CHEM 212 |
| BIOL 217 | CHEM 351 |
| MATH/STAT/PHYSICS REQUIREMENT | MATH/STAT/PHYSICS REQUIREMENT |
| Arts Elective or PHYS 205 (honors take PHYS 205) | Arts Elective or PHYS 226 (honors take PHYS 226) |
| ENGL 219 | ENGL 220 |

IMPORTANT NOTES

- Completing CHEM 351 and CHEM 212 in year 1 can offer students more versatility in course scheduling in their second year, however taking the course concurrently in Winter term can also create a heavier schedule.

CHEM 351 is also available in the Spring term. Students wishing to lighten their first-year course load can take CHEM 212 in the Winter term of Year 1, and then CHEM 351 in the Spring term of Year 1 or upon transfer to their future university.

2. For the Biochemistry major at UAlberta, the sequencing between the Honors and Specialization program are similar for the most part. The major difference is the Honors program requires students to complete 2 Physics courses, 1 calculus course and 1 additional MATH/STAT course. The specialization program requires the completion of only 2 courses total in PHYS/MATH or STAT.

Students planning to continue in the Honors Stream will require the following courses in their degree (recommended to complete in year 1 if possible):

- PHYS 205 (take Fall term)
- PHYS 226 (pre-req of PHYS 205) (take Winter term)
- MATH 202 or MATH 203 (take Fall term)
- One of: MATH 204, MATH 221, STAT 251 (take Winter term)

If you are planning on applying to the Specialization program, choose 2 from the following list (one in Fall term, one in Winter term – note pre-reqs):

- PHYS 205
- PHYS 226 (pre-req of PHYS 205)
- MATH 202 or MATH 203
- MATH 204 (pre-req of MATH 202/203)
- MATH 221
- STAT 251

COURSE CATEGORIZATION/ELECTIVE LIST

- Examples of available Art and Science Electives can be found [here](#).

TRANSFER INFORMATION

| | |
|---|---|
| Transfer Credit | ➤ Recommended to transfer after one year of study at Red Deer Polytechnic. |
| Applying for Transfer | <ul style="list-style-type: none"> ➤ Opening application date for admission: October 1 ➤ Deadline to apply is generally March 1. Consult U of A timelines. ➤ Apply to U of A here. |
| How Admission Grade Point Average (AGPA) calculated | <p>Calculated on all university transferable coursework completed in the most recent two terms of study if they contain a minimum of 24 credits. If those two terms contain less than 24 credits, all work in the next most recent term(s) is included in the calculation until the minimum total of 24 credits is reached. Fall/Winter courses are considered Winter courses in these calculations. For applicants who have attempted less than 24 credits of transferable postsecondary work, the AGPA is based on all university or university transfer credits attempted.</p> <p>Note: Where the applicant has more than one passing grade for the same course at any institution, only the first passing grade is used in calculating the grade point average(s) for admission purposes.</p> <p>For more information on transfer, please consult the University of Alberta Calendar or connect with advisor.science@ualberta.ca</p> |
| Minimum Transferable Grade | <p>A minimum grade of C- must be achieved in order for course credit to be transferable. While courses with grades of D or F will not transfer, they remain on your transcript and will be used in calculation of your GPA. <i>Please talk to an Academic Advisor as soon as possible if you feel you may be in jeopardy of not getting a C- in a course you are enrolled in.</i></p> |

CONTACT INFORMATION AND HELPFUL RESOURCES

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| Red Deer Polytechnic Student Connect Centre | studentconnect@rdpolytech.ca www.rdpolytech.ca/SCC 403.342.3254 |
| Red Deer Polytechnic website | rdpolytech.ca |
| Transfer Alberta Guide | transferalberta.alberta.ca |
| University of Alberta Biochemistry Webpage and Contact | Website: www.biochem.med.ualberta.ca/ Email: generalinfo@biochem.ualberta.ca |