This guide has been created by the School of Arts & Sciences at Red Deer College using information attained from the University of Calgary’s academic calendar and through consultation with the University of Calgary. This planning guide highlights only major points regarding admission and transfer.

Students are advised to read the University of Calgary academic calendar for full program and transfer information; for further details regarding Biological Sciences, visit: [http://www.ucalgary.ca/pubs/calendar/current/index.html](http://www.ucalgary.ca/pubs/calendar/current/index.html)

### PATTERN OF COURSES FOR YEAR 1

<table>
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<td><strong>BIOL 218</strong> (see notes 1 &amp; 2 on page 3)</td>
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<tr>
<td><strong>CHEM 211</strong> (see notes 3 &amp; 4 on page 3)</td>
<td><strong>CHEM 212</strong> (see notes 3 &amp; 4 on page 3) (can also be completed in Spring term)</td>
</tr>
<tr>
<td><strong>MATH 202 or MATH 203</strong> (see notes 1 &amp; 5 on page 3)</td>
<td><strong>MATH 221</strong> (see notes 1 &amp; 5 on page 3)</td>
</tr>
<tr>
<td><strong>Non-Science Option or Geology, Physics, Computing Science Requirement</strong> (see notes 6 &amp; 7 on page 3)</td>
<td><strong>Non-Science Option or Geology, Physics, Computing Science Requirement</strong> (see notes 6 &amp; 7 on page 3)</td>
</tr>
<tr>
<td><strong>Non-Science Option</strong> (see note 7 on page 3)</td>
<td><strong>CHEM 351 or Non-Science Option</strong> (see notes 3, 4 &amp; 7 on page 3)</td>
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</table>
PLANNING FOR YEAR 2

The University of Calgary offers six specific programs that students can major in while completing a Biological Sciences degree at the undergraduate level. These areas are:

- Biochemistry
- Cellular, Molecular & Microbial Biology
- Plant Biology
- Biological Sciences
- Ecology
- Zoology

To learn more about these programs, visit the University of Calgary Biological Sciences homepage: [http://www.bio.ucalgary.ca/](http://www.bio.ucalgary.ca/)

The second year of study is fairly common between all of the majors; however, there are some differences. Use the following recommendations below to register for year 2 courses, but pay attention to the notes as they may have information/course recommendations related to a specific major.

### YEAR 2 RECOMMENDATIONS

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<thead>
<tr>
<th>FALL TERM</th>
<th>WINTER TERM</th>
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<tr>
<td>BIOL 301</td>
<td>BIOC 393 (see note 9 on page 3)</td>
</tr>
<tr>
<td>ZOOL 342 or Science/Arts Option (see note 7 on page 3)</td>
<td>MICR 365 or Science/Arts Option (see note 7 on page 3)</td>
</tr>
<tr>
<td>Option or CHEM 351 (if not completed in Year 1) (see notes 3, 4 &amp; 7 on page 3)</td>
<td>CHEM 352 (see notes 3 &amp; 4 on page 3)</td>
</tr>
<tr>
<td>Non-Science Option (see note 7 on page 3)</td>
<td>Non-Science Option (see note 7 on page 3)</td>
</tr>
</tbody>
</table>
NOTES

1. This course can be completed in either Fall or Winter term (or Spring, if offered).

2. **It is highly recommended students complete both BIOL 217 and BIOL 218 prior to transferring to the U of C.** Completion of both of these courses will cover the requirements for the U of C’s Introductory Biology courses (BIOL 241 & 243). Students who take only one of RDC’s BIOL 217 or 218 while at RDC, will need to complete both U of C’s BIOL 241 & 243 upon transfer.

3. All U of C bound students majoring in Biological Sciences will be required to complete at least 4 specific Chemistry courses in their degree (the RDC equivalents are CHEM 211, CHEM 212, CHEM 351 & CHEM 352).

   Completing CHEM 351 in year 1 can offer students more versatility in course scheduling for their second year; however this course can be completed in a student’s second year as well. Completing CHEM 212 concurrently with CHEM 351 can create a heavier course load. First year students looking to lighten their course load should take one of CHEM 212/351 in the Winter term of Year 1, and then the other CHEM course in the Spring term of Year 1.

4. **It is highly recommended students complete both RDC’s CHEM 351 and CHEM 352 prior to transferring to the UofC in order to obtain full credit.** U of C’s Organic Chemistry courses are called CHEM 351 and CHEM 353. In order to receive appropriate transfer credit for U of C’s CHEM 351/353, students must complete and transfer both RDC’s CHEM 351 and CHEM 352. Students who transfer with only CHEM 351 completed will still need to complete both U of C’s CHEM 351 and 353 upon transfer. **If you plan to transfer after year 1, do not take RDC CHEM 351 at RDC as you won’t be able to complete RDC CHEM 352 in your first year.**

5. U of C Biological Sciences students will need to complete 6 credits (2 courses) in Math. To complete this requirement at RDC, students can take Math 202 or 203 (calculus) and MATH 221 (algebra). If you have a mark of 70% or greater in Math 31, you can take MATH 203.

6. All U of C BSc Biological Sciences students take 6 credits (2 courses) in the area of Physics, Geology, or Computer Science. RDC offers PHYS 205/226 (PHYS 205 does not a PHYS 30 pre-requisite, though it is recommended, and PHYS 226 only has a pre-requisite of PHYS 205). RDC does not have the specific Computer Science or Geology courses to fulfill this requirement. **However, this requirement does not need to be completed prior to transferring to the U of C.**

   For students who do not want to take Physics, or for those who wishing to take Geology or Computing Science courses, take option courses while at RDC, and complete this requirement at the U of C.

   Students pursuing a major in **Biochemistry MUST complete six credits of Physics** in their degree.

7. Examples of available Arts & Science Options for the 2019-2020 academic year can be viewed here: [https://rdc.ab.ca/node/80375/attachment](https://rdc.ab.ca/node/80375/attachment) (you can pick up this printout from the School of Arts & Sciences in Room 2203, or view it on the Loop)

   ZOOL 342 and MICR 365 are not required for any majors; however, they are second year science options.

8. Students pursuing a major in **Biochemistry or Cellular, Molecular and Microbial Biology do not require BIOL 318.**

9. UofC Biological Sciences students must take BIOC 393 to satisfy the Biochemistry requirement; BIOC 301 **cannot be taken in place of BIOC 393.**
PLEASE KEEP IN MIND

- **A minimum grade of C-** is recommended in each course to maximize transferability (“D” grades can transfer, depending on the circumstance). In addition, any course that is a pre-requisite to a higher level course requires a grade of C- to count for credit. *Please talk to an Academic Advisor as soon as possible if you feel you may be in jeopardy of not getting at least a C- in a course you are enrolled in.*

- **Spring term courses:** a spring term course may be taken in year of transfer if it is not required for admission to the program. The grade will not be calculated in the AGPA nor will it count towards Fall/Winter course load. Ensure the transcript submitted shows registration in the spring course. *Please speak to an Advising & Recruiting Specialist if you want to take a Spring Course.*

- **Junior Courses:** Do not take more than 48 credits (generally 16 courses) at the “Junior Level”. Junior Level courses are ones that will transfer to the University of Calgary at their “200 level”. (generally speaking, junior level courses at RDC are at the “200” level. However, there are some “300 level” courses that can transfer to the U of C at their junior level. As such, it is important to check how your courses transfer, and to have your registration checked by the Arts & Sciences Advising & Recruiting office).

- **Application and document deadlines:** March 1.
  Visit [http://www.ucalgary.ca/admissions/dates](http://www.ucalgary.ca/admissions/dates) for more detailed information on Application dates and deadlines as they can change each year.
HOW TO FIND MORE INFORMATION

School of Arts & Sciences
Advising & Recruiting
Room 2203
artscienceinfo@rdc.ab.ca
403-342-3585 (select option 1)
www.rdc.ab.ca/artsandsciences

Alberta Transfer Guide
http://transferalberta.alberta.ca

University of Calgary
Faculty of Science
http://www.science.ucalgary.ca/

Department of Biological Sciences
http://www.bio.ucalgary.ca

Calendar Entry
http://www.ucalgary.ca/pubs/calendar/current/sc-5-1.html

PLEASE NOTE:

This planning guide is designed to help you choose courses at RDC that will transfer to your destination institution and towards your intended degree. The recommendations in this guide are based off current RDC courses that transfer to the institution identified in this guide, as well as information provided by the institution (either through printed publication and/or communication between our institutions).

Institutions can make changes to their program and/or transfer requirements without consulting Red Deer College. As such, it is recommended you consult with the appropriate institutional information (i.e. university calendars, websites, advisors,) to gain the most up to date information.

You are responsible for ensuring that your registration is completed, and that your course choices comply with the program to which you have been admitted to at RDC and/or to the university to which you wish to transfer. This planning guide is meant to help you gain a basic understanding of your program and provide suggestions for course sequencing.

You are cautioned that any changes to your courses, your major, or your transfer destination may adversely affect your transferable credit or admission requirements for future programs. Consult with the student advisor (above) if you have any questions.

Students in university transfer programs are strongly advised to refer to the calendar of the university that they wish to attend, and should contact appropriate university departments as required.