## 192.3 Admission
General admission requirements for the University are set out in §§13 and 14. Specific admission information for the Faculty of Science is detailed in §15.15.

## 192.4 Definitions
The following terms, definitions, and abbreviations are used throughout this section of the Calendar. Also see the Calendar’s Glossary.

- **(4) Courses Successfully Completed**
  Refers to university courses with a final grade of D or higher.

- **(5) Course Weight**
  A unit of course weight indicates the instructional credit assigned to a course and is designated by the * symbol after the course number and name. Units of course weight form a part of the degree requirements and are also used to calculate a student’s Grade Point Average (GPA).

- **(6) Fall/Winter**
  The instructional period of September to April.

- **(7) Two-term Course**
  A two-term course is a single course with *6.

- **(8) Term**
  The instructional periods from September to December (Fall) and January to April (Winter). In Spring/Summer, the instructional periods of May/June (Spring) and July/August (Summer).

- **(9) Single-term Course**
  A single-term course is a single course with *3.

## 192.5 Academic Standing

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
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<tbody>
<tr>
<td>(3) Requirement to Withdraw and Readmission</td>
<td>(3) Requirement to Withdraw and Readmission</td>
</tr>
<tr>
<td>Students who are required to withdraw cannot continue or register in subsequent terms</td>
<td>Students who are required to withdraw cannot continue or register in subsequent terms</td>
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</table>
if they wish to continue studies in the Faculty of Science, they must choose one of the following mutually exclusive options:

a. **Fresh Start Program**: is available by recommendation of the Faculty to students whose GPA is between 1.3 and 1.6 and have taken less than 60 of postsecondary work. Students who been on probation or have more than one requirement to withdraw or their equivalents, or who have been sanctioned for any academic-related disciplinary offence at this University or elsewhere are not eligible for the Fresh Start program. A minimum of *18 with a minimum GPA of 2.7 or a minimum of *24 with a minimum GPA of 2.0 must be successfully completed in the Fresh Start program to be considered for readmission to the Faculty of Science. The Faculty may also specify course requirements to be fulfilled. Students who successfully complete the Fresh Start program may apply for readmission as transfer students (see §16.15.7).

(4) **Probation** is granted to students who are required to withdraw and successfully appeal or to students who are readmitted after studies were discontinued for academic reasons.

No changes until . . .

### 193 Programs of Study

#### 193.1 BSc Honors Programs

A minimum of *120 normally taken in no more than five consecutive academic years is required to complete the Honors program for the degree of BSc with Honors. Some departments require that an Honors program be completed in four years, others permit five. See . . .

(4) Probation is granted to Faculty of Science students who are required to withdraw and successfully appeal or to Faculty of Science students who are readmitted after studies were discontinued for academic reasons.

No changes until . . .
### Current

<table>
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<tr>
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<tr>
<td>individual departments for details. These programs provide specialization in the chosen subject or subjects as well as the higher standard implied by the term “Honors.” Honors programs are available in the Departments of Biochemistry, Biological Sciences, Cell Biology, Chemistry, Computing Science, Earth and Atmospheric Sciences, Mathematical and Statistical Sciences, Neuroscience, Pharmacology, Physics, Physiology, and Psychology. Honors is the preferred program for students who plan graduate study.</td>
<td>completed in four years, others permit five. See individual departments for details. These programs provide specialization in the chosen subject or subjects as well as the higher standard implied by the term “Honors.” Honors programs are available in the Departments of Biochemistry, Biological Sciences, Cell Biology, Chemistry, Computing Science, Earth and Atmospheric Sciences, Mathematical and Statistical Sciences, Neuroscience, Pharmacology, Physics, Physiology, and Psychology. Honors is the preferred program for students who plan graduate study.</td>
</tr>
</tbody>
</table>

**Admission**

See §15.15.3 for admission requirements.

193.2 BSc Specialization Programs

Four-year programs, comprising a minimum of *120, provide education to a professional level and lead to the degree of BSc with Specialization. Specialization programs are available in the Departments of Biochemistry, Biological Sciences, Cell Biology, Chemistry, Computing Science, Earth and Atmospheric Sciences, Mathematical and Statistical Sciences, Pharmacology, Physics, and Psychology.

A five-year (*150) BEd/BSc (Specialization in Science and Education) program with majors and minors in Biological, Mathematical, and Physical Sciences is also available (see §15.15.6 and 75.7).

**Admission**

See §15.15.4 for admission requirements.

193.3 BSc General Program

Please note that the Faculty of Science is revising the Bachelor of Science

193.2 BSc Specialization Programs

Four-year programs, comprising a minimum of *120, provide education to a professional level and lead to the degree of BSc with Specialization. Specialization programs are available in the Departments of Biochemistry, Biological Sciences, Cell Biology, Chemistry, Computing Science, Earth and Atmospheric Sciences, Mathematical and Statistical Sciences, Pharmacology, Physics, and Psychology.

A five-year (*150) BEd/BSc (Specialization in Science and Education) program with majors and minors in Biological, Mathematical, and Physical Sciences is also available (see §16.15.4 and 75.7).

**Admission**

See §16.15.3 for admission requirements.

193.3 BSc General Program

Please note that the Faculty of Science is revising the Bachelor of Science

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<table>
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<tr>
<th>Current</th>
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<tr>
<td>in the General Program degree requirements for all students admitted in Fall 2014 and thereafter. Please see <a href="http://www.science.ualberta.ca/en/UndergraduateStudents">http://www.science.ualberta.ca/en/UndergraduateStudents</a> for a detailed listing of the approved program requirements. The BSc General program provides students with a diverse education in more than one branch of study. Students must major in a Science subject area of concentration (as defined either by a single course designator or by groupings of course designators – see below). Students may elect to minor in a Science subject area of concentration, in an Arts subject area of concentration (see §44), in one of a select number of Agricultural, Life and Environmental Sciences subject areas of concentration (see §193.3.1), or in Business (see §193.3.2). In addition to providing a path to the BSc General Degree, this program of study allows for subsequent transfer to Specialization and Honors programs. Students intending to transfer to Honors or Specialization programs should consult the appropriate admission requirements for the program of interest (see §15.15), select carefully their first-year core courses in accordance with the requirements of the specific Honors or Specialization program, and pay close attention to course load and GPA requirements for transfer. Students in the combined BSc/BEd program should consult Education Chart 2 (see §75.4) when choosing courses for their major and minor.</td>
<td>in the General Program degree requirements for all students admitted in Fall 2014 and thereafter. Please see <a href="http://www.science.ualberta.ca/en/UndergraduateStudents">http://www.science.ualberta.ca/en/UndergraduateStudents</a> for a detailed listing of the approved program requirements. The BSc General program provides students with a diverse education in more than one branch of study. Students must major in a Science subject area of concentration (as defined either by a single course designator or by groupings of course designators – see below). Students may elect to minor in a Science subject area of concentration, in an Arts subject area of concentration (see §44), in one of a select number of Agricultural, Life and Environmental Sciences subject areas of concentration (see §193.3.1), or in Business (see §193.3.2). In addition to providing a path to the BSc General Degree, this program of study allows for subsequent transfer to Specialization and Honors programs. Students intending to transfer to Honors or Specialization programs should consult the appropriate admission requirements for the program of interest (see §16.15), select carefully their first-year core courses in accordance with the requirements of the specific Honors or Specialization program, and pay close attention to course load and GPA requirements for transfer. Students in the combined BSc/BEd program should consult Education Chart 2 (see §75.4) when choosing courses for their major and minor.</td>
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</table>

Admission  
See §15.15.4 for admission requirements for the BSc (General) programs.  

No changes until  

Selection of Courses  
For information about admission to the Business minor, see §15.15.2  

For information about admission to the Business minor, see §16.15.2
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<table>
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<tr>
<td><strong>193.4 BSc (Specialization in Science and Education)/BEd (Secondary) Combined Degrees Program</strong></td>
<td><strong>Admission</strong> Students apply to the Faculty of Science for admission to the BSc (Specialization in Science and Education)/BEd (Secondary) program and normally spend the first two years of the five-year combined degrees program registered in the Faculty of Science. (See §15.15.6)</td>
</tr>
<tr>
<td>No changes until</td>
<td>No changes until</td>
</tr>
<tr>
<td><strong>Academic Standing and Graduation</strong> The following regulations govern the combined degrees program: (1) Continuation in the combined degrees program requires a GPA of at least 2.3 on *24 in each Fall/Winter of the five-year program. (2) Graduation from the combined degrees program requires a GPA of 2.7 in the declared major. (3) Students who fail to achieve a GPA of 2.7 in their major at the end of Year 2 in the program will not be promoted to the Faculty of Education. (4) A student who fails to attain the standard necessary for continuation or graduation may appeal to be granted one further Fall/Winter to achieve the required standing and requires the written approval of the Dean of Science and the Dean of Education. (5) A student who cannot attain the standard necessary for continuation or graduation in the combined degrees program will be required to withdraw from the program. In so doing, the student may apply to transfer to a BSc program in the Faculty of Science or the BEd program in the Faculty of Education.</td>
<td><strong>Academic Standing and Graduation</strong> The following regulations govern the combined degrees program: (1) Continuation in the combined degrees program requires a GPA of at least 2.3 on *24 in each Fall/Winter of the five-year program. (2) Graduation from the combined degrees program requires a GPA of 2.7 in the declared major. (3) Students who fail to achieve a GPA of 2.7 in their major at the end of Year 2 in the program will not be promoted to the Faculty of Education. (4) A student who fails to attain the standard necessary for continuation or graduation may appeal to be granted one further Fall/Winter to achieve the required standing and requires the written approval of the Dean of Science and the Dean of Education. (5) Students who cannot attain the standard necessary for continuation or graduation in the combined degrees program will be required to withdraw from the program. Such students may apply to transfer to a different BSc program in the Faculty of Science or the BEd program in the Faculty of Education.</td>
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### Faculty of Science
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<table>
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<th>Current</th>
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<tbody>
<tr>
<td>Education, provided they meet the necessary admission GPA.</td>
<td>Faculty of Education.</td>
</tr>
<tr>
<td><strong>193.5 After Degrees</strong> No changes until Please refer to section §15.15 for program admission requirements in the Faculty of Science.</td>
<td><strong>193.5 After Degrees</strong> No changes until Please refer to section §16.15 for program admission requirements in the Faculty of Science.</td>
</tr>
</tbody>
</table>

#### 194.2 {xe “Programs of Study: Biology”}{xe “Biological Sciences”}{xe “Science, Faculty of: Programs of Study”} Biological Sciences

All students in Honors and Specialization programs in Biological Science take a common core of four BIOL courses in the first and second years. Thereafter, they follow the course sequence of one of the areas of concentration in either Honors or Specialization in Biological Sciences identified in §194.2.4. **Students must declare an area of concentration and follow the appropriate course sequence.** The title of the area of concentration will appear on their degree. Additional course requirements for Honors students include BIOL 499 and program specific courses. BIOL 499, a directed research project, must be conducted on a topic appropriate to the student’s area of concentration. BIOL 499 is a recommended option for Specialization students.

No further changes until.

#### 194.2.1 Honors in {xe “Biological Sciences: Honors”} Biological Sciences (including Bioinformatics)

Admission to the BSc Honors in Biological Sciences program see Admission Chart 4, §15.15

No further changes until.

#### 194.2.1 Honors in {xe “Biological Sciences: Honors”} Biological Sciences (including Bioinformatics)

Admission to the BSc Honors in Biological Sciences program see Admission Chart 4, §16.15
### Faculty of Science
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<tr>
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<tr>
<td>Continuation in the Honors in Biological Sciences program requires successful completion of at least *24 with a minimum 3.0 GPA in the previous Fall/Winter. In addition, graduation requires a minimum 3.0 GPA on the last *60 credited to the degree.</td>
<td>Continuation in the Honors in Biological Sciences program requires successful completion of at least *24 with a minimum 3.0 GPA in the previous Fall/Winter. In addition, graduation requires a minimum 3.0 GPA on the last *60 credited to the degree.</td>
</tr>
</tbody>
</table>

194.2.2 Specialization in Biological Sciences: Specialization

Continuation in the Specialization in Biological Sciences program requires successful completion of at least *24 with a minimum 2.3 GPA in the previous Fall/Winter. In addition, graduation requires a minimum 2.3 GPA on all courses credited to the degree.

194.5 Computing Science

For admission requirements, see §15.15.

194.5.8 BSc Program in Computer Engineering

A four-year program in Computer Engineering is offered jointly by the Faculty of Science and the Faculty of Engineering (see §82.6), and administered by the Department of Electrical and Computer Engineering. Students in the program will be registered in the Faculty of Engineering. Admission requirements are specified in §15.7. Promotion and Graduation regulations are found in §83.3.

194.11 Neuroscience

For admission requirements, see §15.15.

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<th>of Study: Neuroscience</th>
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<tr>
<td>&quot;Science, Faculty of: Programs of Study&quot;</td>
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</table>

#### 194.11.1 Honors in Neuroscience

The Honors program in Neuroscience is an interdisciplinary program coordinated by the Neuroscience and Mental Health Institute. This program is for students planning a career in Neuroscience.

For admission to the Honors in Neuroscience program see Admission Chart 4, §15.15.

### Proposed

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<td>&quot;Science, Faculty of: Programs of Study&quot;</td>
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</table>

#### 194.11.1 Honors in Neuroscience

The Honors program in Neuroscience is an interdisciplinary program coordinated by the Neuroscience and Mental Health Institute. This program is for students planning a career in Neuroscience.

For admission to the Honors in Neuroscience program see Admission Chart 4, §16.15.

### 196.1.1 Research Certificate in Science (Biological Sciences)

A Research Certificate in Science (Biological Sciences) will provide an opportunity for undergraduate students to engage in authentic and focused research.

This certificate is open to undergraduate students in the Faculty of Science with preference given to BSc Honors and Specialization students in the Department of Biological Sciences and BSc General students (Biological Sciences major). Consent of the Department of Biological Sciences is required. Normally, a student will be able to fulfill the requirements for this certificate as part of a BSc program; some students may need to complete more than the minimum number of credits required in order to qualify for both the degree and the certificate.

Students wishing to pursue the Research Certificate in Science (Biological Sciences) must apply through the Department of Biological Sciences Student Services Office (BS CW-312) for acceptance into BIOL 298. Application for this course does not guarantee a position in this program or the awarding of a certificate.

Students may pursue the Research Certificate in Science (Biological Sciences) by fulfilling the existing requirements for their...
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<tr>
<td>Current program and by completing *21 as follows:</td>
<td>Proposed fulfilling the existing requirements for their program and by completing *21 as follows:</td>
</tr>
<tr>
<td>(1) BIOL 298 (*3)</td>
<td>(1) BIOL 298 (*3)</td>
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<tr>
<td>(2) BIOL 399 (*6) or BIOL 398 (*3) and BIOL 498 (*3)</td>
<td>(2) BIOL 399 (*6) or BIOL 398 (*3) and BIOL 498 (*3)</td>
</tr>
<tr>
<td>(3) BIOL 499 (*6)</td>
<td>(3) BIOL 499 (*6)</td>
</tr>
<tr>
<td>(4) *3 from a list of 300- and 400-level approved options in data handling courses in Biological Sciences</td>
<td>(4) *3 from a list of 300- and 400-level approved options in data handling courses in Biological Sciences</td>
</tr>
<tr>
<td>(5) *3 from a list of 300- and 400-level approved options in practical skills and techniques courses in Biological Sciences</td>
<td>(5) *3 from a list of 300- and 400-level approved options in practical skills and techniques courses in Biological Sciences</td>
</tr>
<tr>
<td>(6) Presentation at a conference either on or off campus</td>
<td>(6) Presentation at a conference either on or off campus</td>
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</table>

Students wishing to receive the Research Certificate in Science (Biological Sciences) must apply through Undergraduate Student Services in the Faculty of Science by the application deadline for convocation (see §11).

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