Faculty of Science

Science Student Services

New Student Handbook

Revised Dec 2019
Welcome to Science!

Dear new student,

Welcome to the Faculty of Science at the University of Regina. You are embarking on an exciting time in your life and I am pleased that you have chosen us to share in the journey.

Over the next few years, you will discover many new things about yourself, your interests and the world in general. I encourage you to take advantage of this opportunity not only to prepare yourself for a career, but also to explore new topics and ask questions about why things are the way they are. Discover what you can do to shape the future through community involvement and critical thinking. Participate in the many activities we offer, to help make your time with us a positive learning and personal growth experience. Take the co-op education option to explore the employment opportunities. Try an international work or study semester to learn more about the world outside Canada. Consider an NSERC student summer research assistantship to see if a research career is the right choice for you.

As you enter the university environment, you will discover that you are faced with many new challenges and opportunities. Some of them will excite you; others may be intimidating. Through all of them, we at the Faculty of Science are here to support you. If you require assistance at any point throughout your program, I encourage you to seek help at the Faculty of Science Student Services Office and attend drop-in sessions in the College West building to access help for your
mathematics and statistics courses, if you need it. Get to know your Professors. One of the key differences you will find in your transition to university is that the support services are both diverse and distributed across campus. Our job is to help you identify and find these services. If you have questions, come see us in Science Student Services!

I wish you the best of success in your studies, and I look forward to handing your degree or certificate to you in a few years time.

Sincerely,

Dr. Douglas Farenick
Dean, Faculty of Science
Academic Advising Syllabus
Advisors advise, students decide.

Academic Advising Contact Information
Faculty of Science Student Services
LB 238
(306) 585-4199
Science@uregina.ca

What is Academic Advising

Academic advising is a collaborative process between students and advisors. We work together to meet student learning outcomes and help ensure student success. This relationship requires participation and involvement of both the advisor and the student. Therefore, both the advisor and student have important responsibilities to help ensure the advising partnership is successful.

- Community College of Aurora

Who are Academic Advisors

TEACHERS – who empower students to take responsibility for their academic success
MENTORS – who work with students to reach their goals
GUIDES – who help students navigate their post-secondary experience.
RESOURCES – who serve as a point of contact and refer students to campus services.
EXPERTS – who help students understand the university, its programs and curricular requirements, and related learning opportunities.
ADVOCATES – who comply with freedom of information and protection of privacy legislation to protect students’ privacy and rights

- Kansas State University
Learning Outcomes of Advising

1. **Knowledge**: demonstrate a working knowledge of program requirements, career options, campus resources and enrichment activities.

2. **Critical thinking**: demonstrate the ability to identify goals, construct short-term and long-term plans, respond and adapt to changing situations, interpret program requirements, make complex decisions, solve problems, engage in self-reflection and evaluate actions.

3. **Communication**: demonstrate the ability to communicate clearly and effectively.

- *Kansas State University*
Student Responsibilities

- Get to know your advisor; work together to develop and implement attainable, short-term and long-term academic, personal and/or career goals.

- Schedule (and keep) appointments; make contact with an advisor each semester.

- Come prepared with questions and related material for discussion.

- Be an active learner by participating fully in advising meetings and asking questions if you do not understand an issue or have a specific concern.

- Become knowledgeable in the use of UR Self Service, Degree Audit, UR Courses, etc.

- Become familiar with campus resources including, but not limited to: Counselling Services, Student Success Centre, Aboriginal Student Centre, Career Centre, Global Learning Centre, etc.

- Invest the appropriate time and energy in order to successfully complete coursework.

- Know important dates and deadlines (registration, Add/Drop, final exams, etc.) as listed in the Academic Calendar.

- Check U of R e-mail account on a regular basis.

- Accept responsibility for decisions and actions.

- Be open to considering ideas and recommendations made by your advisor.
Advisor Responsibilities

- Create an environment where mutual respect and trust allows students to define and achieve realistic academic goals, based on their interests, abilities, values and needs.

- Teach students how to navigate the learning and information systems of the University.

- Help students develop a holistic view of their academic plans in order to balance academic, personal and professional demands.

- Actively listen to student concerns/questions and provide appropriate support and information.

- Assist students with their decision-making skills and in assuming primary responsibility for their academic plan and its progress.

- Help students understand university policies, regulations and degree/program requirements (such as regulations surrounding course repeating, academic probation and plagiarism).

- Effectively communicate how and when to use student support services on campus, and make referrals to appropriate resources.

- Assist students in course selection and in creating academic plans that lead to successful progression to goal attainment, including graduation.

- Maintain the confidentiality of student records according to the freedom of information and protection of privacy legislation.

- Support student learning and diversity through non-biased, anti-oppressive interactions.
**Goals of Advising Relationships**

**Transitioning and Adjusting to University**
- Explore your academic and career interests
- Explore interpersonal factors related to academic and career goals
- Clarify your personal values, especially as they relate to academic and career choices
- Assess your strengths and skills
- Use multiple resources to maximize your undergraduate experience (advisors, study groups, student organizations, volunteering, electives, and student services).

**Academic Exploration & Personal Development**
- Focus your interests and study one of them in more depth.
- Continue assessing and developing your skills, strengths and interests.
- Explore connections between your interests and strengths and potential careers.
- Discuss opportunities for experiences that will help you clarify your goals.
- Discover how your interests and skills apply to the world of work.
- Research multiple career options to find the best fit.
- Be able to articulate what you are studying and why.

**Transitioning out of College into Career or Graduate School**
- Plan for graduation.
- Explore post-graduate opportunities (graduate school, careers, travel, etc.).
Academic Advising Timeline

First Term/Year

- Familiarize yourself with the Academic Calendar, the Student Success Centre (SSC), Degree Audit, and your U of R campus resources
- Meet with an advisor prior to your registration date to ensure you understand your first-year degree requirements and receive assistance with your course selection
- Get your URegina Student Card through the Registrar’s Office
- Start strong! Schedule a Learning Support meeting with an advisor to brush up on your study skills and exam writing skills!

Throughout Your Program

- Think about your specialization – do you know what you would like to major in?
- Get involved! Check out the great ways to volunteer and contribute to your campus and local community!
- Continue to get involved! It is important to participate in extracurricular activities to build your resume and cover letter!
- Discover employment opportunities associated with your degree
- Meet other U of R students and have a great time at Students’ Union events and activities
Final Term/Year

- Once you have registered in your courses, **BEFORE** the semester starts, meet with an advisor to make sure you are on track to graduate
- Review the Graduation webpage on the Registrar’s Office website and don’t forget to apply to graduate!
- Meet with a career advisor to help you get your resume and cover letter ready!
- Explore post-graduation opportunities (i.e.: graduate school, careers, travel, etc.)

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*YoUR Journey. YoUR Academic Advisor.*

Navigating University regulations and academic programs can be a challenge, but you are not alone on your journey. Whether your path is direct or winding, your academic advisor will walk with you, guiding you through the rocky patches, maneuvering you around obstacles, and helping you find the ideal road to your destination.

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**Acknowledgement:** This syllabus has been inspired by, and adapted for the U of R, from advising syllabi at the following institutions: Kansas State University, Neumann University, Community College of Aurora, University of British Columbia and University of Victoria.
Table of Contents

Undergraduate Calendar and Course Catalogue 1

Science Qualifying Process 2

Program Structure and Terminology
  Programs and Parts 5
  Pre-Professional Programs 10

Science Subject Areas
  Biology 14
  Chemistry & Biochemistry 16
  Computer Science 18
  Economics 20
  Geography 21
  Geology 22
  Mathematics & Statistics 24
  Physics 26
  Psychology 27
  Medical Lab Science 28
  Medical Radiologic Technology 30

General Information
  Semester System 32
  Email 33
  Tuition & Fees 34
  Student ID 34
  Textbooks 35
  Important Dates 35

Understanding your grades
  Grades 37
  GPA’s 36
Table of Contents cont...

Academic Standing Regulations

*Academic Probation* 40

*MW (Must Withdraw from University)* 40

*Faculty RTD (Required to Discontinue)* 41

Academic Integrity 43

*Cheating* 44

*Plagiarism* 44

*Referencing* 45

Graduation Requirements 46

Registration

*Registration Procedure Checklist* 50

*Time-Ticket* 51

*Holds* 52

*Program Outlines* 53

*Course loads* 54

*Choosing Courses* 56

*Repeating Courses* 59

*UR Self-Service* 60

*Visual Schedule Builder* 61

*Adding and Dropping Courses* 63

*Restrictions and Registration Errors* 65

Student Support Resources

*Science Student Services* 68

*Student Success Centre* 69

*Global Learning Centre* 70

*UR Guarantee* 71

*IT Support* 72

*Career Centre* 73

*Centre for Student Accessibility* 74

*Counselling Services* 75
Table of Contents cont...

Student Support Resources cont...

- Student Awards & Financial Aid 76
- University of Regina Students’ Union 77
- UR International & Study Abroad 78
- Where do I go for Help? 79
Undergraduate Calendar & Course Catalog

The University of Regina Undergraduate Calendar & Course Catalog outlines the University of Regina’s Admission and Program Policies in detail. Regulations concerning Admissions, Academic Programs, Academic Standing and Academic Integrity including Disciplinary Actions, Graduation Requirements and Important Dates and Deadlines are to be found within.

Students are expected to be familiar with the Calendar. The Calendar is available online.

The Faculty of Science New Student Handbook will serve as a supplement to the University of Regina Undergraduate Calendar & Course Catalogue, and where there are any discrepancies, the Calendar will be the authority on all matters related to University Policy. Throughout this publication, reference will be made to the appropriate Calendar sections. For further information, please refer to the University of Regina Undergraduate Calendar & Course Catalogue.

ONLINE:
https://www.uregina.ca/student/registrar/resources-for-students/academic-calendars-and-schedule/undergraduate-calendar/index.html
Science Qualifying Process

In order to gain admission to the Faculty of Science, you will have had to meet certain admission requirements as defined in the Undergraduate Calendar.

In some cases, students who do not quite meet the stated admission requirements – they are either missing a course or have achieve an admissions average slightly below the stated requirement – may be admitted to the Science Qualifying Process.

Students who are admitted to the Science Qualifying Process are:

1. Allowed to register in a maximum of 12.0 credit hours (4 courses) each semester.

2. Required to meet with an academic advisor every Fall and Winter semester to discuss their progress and academic plan.

3. Required to complete the appropriate missing prerequisite or approved replacement course within the first 45.0 credit hours (15.0 courses) of their program.

If you were admitted as a Science Qualifying student, this will have been stated in your Offer of Admission Letter and in your “Welcome to the Faculty of Science” email. You will also find that you have a “Conditions on Registration” Hold preventing you from registering until you have met with an Academic Advisor.
Science Qualifying students will be reviewed each semester. Qualifying status will be removed and a student will be changed to “fully qualified” status if at the end of the semester:

- The student has achieved a UGPA of at least 65%.
- The student has successfully completed the missing pre-requisite or approved replacement course, AND;
- Any other conditions on their admission that are outlined in their admissions letter have been completed.

<table>
<thead>
<tr>
<th>Missing Course</th>
<th>Required “Qualifying” Course / Course Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>English language Arts A30 and B30 <strong>or</strong> English literature course</td>
<td>Engl 100</td>
</tr>
<tr>
<td>Pre-Calc 30 <strong>or</strong> Pre-calculus (grade 12)</td>
<td>Math 102 (Please note that Math 102 has high school level pre-requisites. If a student has not previously completed the high school pre-requisites for Math 102, students will be required to complete AMTH 091, followed by AMTH 092 in order to meet the pre-requisites before they will be allowed to register in Math 102.)</td>
</tr>
<tr>
<td>Two of Biology 30, Calculus 30, Chemistry 30, Computer Science 30, Physics 30, Earth Science 30 <strong>or</strong> Two of Biology, Calculus, Chemistry, Computer Science, Earth Science or Physics</td>
<td>Any one Science course at the 100 level will meet this requirement.</td>
</tr>
</tbody>
</table>
Program Structure &
Terminology
Faculty of Science Programs

The Faculty of Science offers many programs in a variety of areas of study. Although it is not required that you determine your program in your first semester at University, your choice of program will affect the courses in which you will wish to register. It is recommended that you choose a program by the commencement of your second year to ensure that course sequencing requirements do not delay graduation.

The Faculty of Science primarily serves students who are seeking a Bachelor’s degree in the Computational, Life or Physical Sciences. However, we also provide the opportunity for students to meet admission requirements to other Professional Programs, and offer joint programs with various other institutions to facilitate student mobility and increased expertise in applied and technical science.

Faculty of Science programs can be found in the Science Section of the University of Regina Undergraduate Calendar.

Program: A prescribed set of courses leading to a degree, certificate or diploma.
A Bachelor’s degree is often referred to as a “4-year” or “undergraduate”. A Bachelor’s degree consists of 120.0 credit hours (40 individual courses). It is made up of courses categorized as belonging to a major and elective courses.

A Bachelor of Science Honours degree is a more intensive program of study that requires an increased number of courses within the major, as well as a final year research project. Students interested in an Honours degree must have an overall average grade of 75% or higher. If you are interested in an Honours program, please contact your academic advisor.

Diplomas are shorter programs that may be completed in 60.0 credit hours (20 courses). They do not carry the same recognition as a Bachelor’s degree, but indicate that an individual has some background in particular area of study. Credit earned towards a diploma may be used to meet requirements in a Bachelor’s degree at a later date, and may be a good starting point for students unable to commit to a full Bachelor’s degree program, or for those needing to demonstrate competency in a particular area of study.

Certificates are short programs that may be completed in 30.0 credit hours (10 courses). Certificates are good for students who intend to study only part-time, or who need only a few courses in a particular area of study. The credit from a Certificate can often be applied to a full Bachelor’s degree at a later date.

credit hour:  
The unit measuring educational credit.

Most University courses are 3 credit hours  
(3 hours/wk).
A **Major** is the primary area of study developed during a Bachelor’s degree program. Majors in Science range from 51.0 to 93.0 credit hours, and define the program of study. **A student must select at least one major** in order to complete a Bachelor’s degree.

The Faculty of Science at the University of Regina offers B.Sc. and some B.Sc. Hons. programs majoring in the following subject areas:

- Actuarial Science
- Applied Physics
- Biology (Concentrations Available)
- Biochemistry
- Chemistry
- Computer Science (concentrations available)
- Economics
- Environmental Geoscience
- Geography
- Geology
- Indigenous Environmental Science
- Mathematics
- Physics
- Psychology
- Software Systems Development
- Statistics

**concentration:**

A cluster of courses on a particular theme or topic, often used to focus within a major area of study.
A **combined major** is a **single major** that has been designed to provide a student with knowledge relating to **two areas of study**, which requires less courses in each individual area, but a good background in both and an understanding as to how the two disciplines relate.

The Faculty of Science offers Programs with combined majors in:

- Computer Science/Mathematics
- Statistics/Economics
- Mathematics/Statistics

A **double major** is a program whereby a student completes the requirements for **two majors within the 120 credit hour** program. Because so many courses are required for a major in Science, a double major can be difficult to accomplish within 120.0 credit hours. If this option is of interest to you, please contact the Academic Program Advisor.

A **Minor** is a concentration of courses in a different field of study. Minors typically range from 18.0 to 30.0 credit hours. A Student working towards a Science Program may pursue minors from the Faculties of Arts, Media, Art, and Performance, Kinesiology, or Science.

For information regarding particular minors see the University of Regina Undergraduate Calendar. To see how a minor might fit within your program, contact your Academic Advisor.
**Joint programs** are collaborations between the University of Regina and another college or institution. These programs often require that you complete a diploma program at another institution such as Saskatchewan Polytechnic or Lakeland College, before transferring to the University of Regina to complete the remaining courses required for a Bachelor’s degree.

The Faculty of Science offers joint programs in:

- Medical Radiologic Technology (Sask Polytechnic and others)
- Medical Laboratory Science (Sask Polytechnic)
- Environmental Biology (Sask Polytechnic, Lakeland or Lethbridge College)
- Chemical Technology (Sask Polytechnic)
- Post-Diploma Computer Science (Sask Polytechnic)

For information regarding the diploma programs required to meet the pre-requisite for these programs, please contact the respective Educational Institution:

- **Saskatchewan Polytechnic**  
  [http://saskpolytech.ca/](http://saskpolytech.ca/)

- **Lakeland College**  
  [http://www.lakelandcollege.ca/](http://www.lakelandcollege.ca/)

- **Lethbridge College**  
  [http://www.lethbridgecollege.ca/](http://www.lethbridgecollege.ca/)
A **Pre-Professional Program** consists of the University pre-requisites required to apply to a Professional program, such as medical school. Students who have taken their pre-professional studies at the University of Regina have been very successful candidates for professional programs including the following:

- Agriculture
- Chiropractic Medicine
- Dentistry
- Medicine
- Nutrition
- Occupational Therapy
- Optometry
- Pharmacy
- Physical Therapy
- Veterinary Medicine

Further information regarding pre-professional programs can be found in the Transfer Programs Section of the *University of Regina Undergraduate Calendar and Course Catalog*.

Depending on which institution to which you will be applying, the pre-requisites may vary. **Students are encouraged to research the admissions requirements of the Professional Schools to which they will be applying to confirm requirements and deadlines.**

Students are welcome to meet with the Academic Program Advisor in Science to discuss their program options and get assistance with choosing courses that will meet pre-requisite requirements for their Professional Program of interest.
A **Preparatory degree program** is a program (typically a Bachelor’s degree) that students may work towards concurrently with their pre-professional program. Choosing a preparatory degree program will aid in elective course selection and ensure that the student is developing their background knowledge in a related field of study.

For example, a student interested in Medicine may wish to declare Biology as their preparatory degree program, so that they are working towards a greater understanding of biological systems while they continue to apply for admission to medical school.

Students interested in Professional Programs are encouraged to consider that, due to the competitive nature of these programs, very few applicants are granted admission on their first attempt.

In fact, students typically complete a Bachelor’s degree prior to being accepted to a Professional Program, even if the particular pre-requisites can be completed within two years.
Electives are courses that fall outside of the major that make up the remainder of the 120.0 credit hours required to graduate with a degree. Electives may include courses contributing to a minor. Electives from the following categories may be required for your program:

**Natural Science**
Any course offered in Astronomy (ASTR), Biology (BIOL), Biochemistry (BIOC), Chemistry (CHEM), Geology (GEOL), or Physics (PHYS) that contains a lab component will meet this requirement.

**Science**
Any course from the Faculty of Science will meet this requirement.

**Arts or Media, Art & Performance**
Any course from the Faculty of Arts or the Faculty of Media, Arts & Performance will meet this requirement.

**Open Elective**
Any university level course from any faculty will meet this requirement.

For a list of common electives offered in each faculty, see pgs. 57 and 58.
Science Subject Areas
Programs in Biology
www.uregina.ca/biology

B.Sc. Biology
B.Sc. Biology with a Conc. in Cellular and Molecular Biology
B.Sc. Biology with a Conc. in Ecology and Environmental Biology
B.Sc. Environmental Biology (Joint Program)

B.Sc. Hons. Biology
B.Sc. Hons. with a Conc. in Cellular and Molecular Biology
B.Sc. Hons. with a Conc. in Ecology and Environmental Biology
B.Sc. Hons. Environmental Biology (Joint Program)

B.Sc. Combined Biology and Geography

B.Sc. Indigenous Environmental Science
Knowledge
Evolution, structure, function and interaction of living organisms at the molecular, cellular, organismal, population and ecosystem levels; classification of diverse living forms; plant and animal biology; human biology; cell and molecular biology; microbiology; genetics and DNA analysis; physiology; aquatic chemistry and ecology; population and community ecology; environmental biology and impacts of environmental change; field and lab research methodologies; biometric applications for experiment design and data analysis.

Skills
Apply biological facts, concepts and principles; design experiments and projects; conduct field and lab research; analyze and interpret data; apply statistical techniques; assess and solve complex problems; think analytically and critically; write clear and accurate technical reports.

Sample Courses

Possible Careers

Priority Courses:

| Intro Major courses | BIOL 100 (Fall), BIOL 101 (Winter) |
| Core               | CHEM 104, ENGL 100               |
| Other Intro options| CS 110, MATH 110, STAT 100, PHYS 109, Arts elective |
| If needed          | CHEM 100, MATH 102               |
Programs in Chemistry and Biochemistry
www.chem.uregina.ca

B.Sc. Biochemistry
B.Sc. Chemistry
B.Sc. Chemical Technology (Joint Program)

B.Sc. Hons. Biochemistry
B.Sc. Hons. Chemistry

Knowledge
Nature and behaviour of elements, compounds and chemical reactions; analytical, computational, inorganic, organic, physical and theoretical chemistry; metabolism, nutritional and regulatory chemistry, enzymes, nucleic acids, biophysics and molecular genetics (biochemistry); synthesis of new compounds or materials; detection and measurement of chemicals; quality control; environmental protections; health and safety practices; scientific research methodology and data analysis.
Skills
Plan, set up and conduct chemical analysis (eg. soil, hormones, water); design, synthesize and test new chemical products (eg. drugs, foods, fuels, paints, new materials, nanochemicals); measure pollutants in the air, water and soil; examine evidence and DNA; assess and solve complex problems; think logically, creatively and independently; interpret and write detailed technical reports; observe health and safety practices; apply computer skills and statistical techniques.

Sample Courses Biochemistry
Metabolism, Enzymes, Biophysics, Molecular Genetics, Chemical Biology, Advanced Microscopy, Cell Signalling

Sample Courses Chemistry

Possible Careers

Priority Courses:

<table>
<thead>
<tr>
<th>Intro Major courses</th>
<th>CHEM 104, 105, 140</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td>BIOL 100, ENGL 100</td>
</tr>
<tr>
<td>Other Intro Options</td>
<td>CS 110, MATH 110, PHYS 109, STAT 160, Arts Elective</td>
</tr>
<tr>
<td>If needed</td>
<td>CHEM 100, MATH 102</td>
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</table>
Programs in Computer Science
www.cs.uregina.ca

B.Sc. Computer Science
B.Sc. Computer Science with a conc. in Business
B.Sc. Computer Science with a conc. in Creative Technologies
B.Sc. Combined Computer Science and Mathematics
B.Sc. Software Systems Development

B.Sc. Hons. Computer Science
B.Sc. Hons. Combined Computer Science and Mathematics

Diploma in Computer Science
Post-Diploma B.Sc. Computer Science (Joint Program)
Knowledge
Programming language and problem solving; operating systems and networks; basic logic and circuit design; computer architecture; software design and development; human computer interaction and design; multimedia systems (eg. graphics, video, audio, animation, and image processing); types, sources and uses of data in organizations; designing new techniques for data processing and interpretation; database and information retrieval, artificial intelligence; numerical analysis.

Skills
Develop and implement software projects; analyze and problem solve in various programming languages; design human-computer interfaces; define and solve problems; think analytically and creatively.

Sample Courses

Possible Careers
Analyst, Artificial Intelligence Researcher, Computer Graphics, Games Designer, Database Manager, Multimedia Designer, Software Developer, Software Security Analyst, Website Designer

Priority Courses:

<table>
<thead>
<tr>
<th>Intro Major courses</th>
<th>CS 110, CS 115</th>
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<tbody>
<tr>
<td>Core</td>
<td>ENGL 100, MATH 110, MATH 122</td>
</tr>
<tr>
<td>Other Intro Options</td>
<td>MATH 111, STAT 160, Natural Science elective, Arts elective</td>
</tr>
<tr>
<td>If needed</td>
<td>MATH 102</td>
</tr>
</tbody>
</table>
Programs in Economics

B.Sc. Economics
B.Sc. Hons. Economics
B.Sc. Combined Statistics and Economics

Knowledge
Production, distribution and consumption of goods and services; development of economic policy; regional, national and international economies; currency, banking and financial markets; application of research methods, statistical tools and information technology; economic analysis of complex societal issues.

Skills
Integrate theoretical and quantitative analyses; monitor and forecast economic trends; collect and analyze data using statistical techniques; evaluate and debate economic arguments; think analytically and logically; develop policy; write detailed, organized reports.

Sample Courses
Government and the Economy, Monetary and Financial Crises, Environmental Economics, Economics of Developing Countries.

Possible Careers

Priority Courses:

<table>
<thead>
<tr>
<th>Intro Major courses</th>
<th>ECON 100, 201, 202, STAT 160</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td>ENGL 100, MATH 110, CS 110</td>
</tr>
<tr>
<td>Other Intro Options</td>
<td>Natural Science elective, Arts elective</td>
</tr>
<tr>
<td>If needed</td>
<td>MATH 102</td>
</tr>
</tbody>
</table>
Programs in Geography

B.Sc. Geography
B.Sc. Hons. Geography

Knowledge
The earth’s physical features, resources and climate; interactions between humans and the natural environment; geographic analysis of culture, economic development, gender, history, politics, recreation and tourism; demography; Biogeography; cartography; remote sensing and spatial data analysis using geographic information systems (GIS); fieldwork methods, data collection and statistical analysis

Skills
Conduct environmental assessments; manage resources and develop policy; use computer applications for spatial analysis; apply statistical techniques; think analytically; write clear and well-organized reports.

Sample Courses
Human Geography, Physical Geography, Environmental Issues, Geography of the Third World, Geomorphology, Urban Geography, Environment and Resource Management, Field Techniques, Map and Air Photo Interpretation.

Possible Careers
Cartographer; Climatologist; Conservationist; Economic Development; Geomorphologist; GIS Technician/Analyst; Industry Development Planner; Resource Planner

Priority Courses:

<table>
<thead>
<tr>
<th>Intro Major courses</th>
<th>GEOG 120, 121</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td>ENGL 100, CS 110, STAT 100 or 160</td>
</tr>
<tr>
<td></td>
<td>BIOL 100, 101 or 150, CHEM 104 or 109, MATH 110</td>
</tr>
<tr>
<td>Other Intro Options</td>
<td>Arts elective</td>
</tr>
<tr>
<td>If needed</td>
<td>MATH 102</td>
</tr>
</tbody>
</table>
Programs in Geology
www.uregina.ca/geology/

B.Sc. Geology
B.Sc. Environmental Geoscience

B.Sc. Hons. Geology
B.Sc. Hons. Environmental Geoscience

Our B.Sc. in Geology is designed to meet most of the requirements for the Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS), the provincial licensing body for Geoscientists! Speak to your Faculty Advisor during your program for further information.

Knowledge
Composition, structure and natural processes of the earth and other planets; mineralogy and petrology (eg. igneous rocks); the geological history of the earth; the evolution of life; the characteristics and habitats of fossil animals and plants; understanding past and present major geological global events (eg. tsunamis, earthquakes, volcanoes); analysis of sedimentary deposits and geologic time; exploration and extraction of natural resources (eg. ground water, petroleum and metals); environmental contamination and clean up; fundamental scientific concepts; fieldwork techniques and geologic mapping.
Skills
Interpret data about the earth; describe earth materials in this section, hand specimen, outcrop and core; analyze complex geological and environmental problems (eg. subsurface geology, climate change); apply fundamental scientific concepts; identify the location of natural resources (eg. petroleum); conduct scientific field and lab research; construct models of geologic events and processes; produce detailed geological maps, cross-sections and reports; think analytically and work independently

Sample Courses
Environmental Geology, Internal Processes of the Earth, Mineralogy, Paleontology, Earth System History

Possible Careers
Cartographer; Exploration Geologist; Hydrologist; Exploration Geochemist; Petroleum Geologist; Environmental Consultant; Field Geologist; Mineralogist; Museum Curator; Parks and Natural Resources; Paleontologist; Volcanologist; Waste Management

Priority Courses:

<table>
<thead>
<tr>
<th>Intro Major courses</th>
<th>GEOL 102, 201</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td>ENGL 100, MATH 110, CHEM 104, CS 110, PHYS 109</td>
</tr>
<tr>
<td>Other Intro Options</td>
<td>MATH 111, STAT 160, Natural Science elective, Arts elective</td>
</tr>
<tr>
<td>If needed</td>
<td>MATH 102</td>
</tr>
</tbody>
</table>
Programs in Mathematics and Statistics
www.math.uregina.ca

B.Sc. Mathematics
B.Sc. Statistics
B.Sc. Actuarial Science
B.Sc. Applied Mathematics and Statistics

B.Sc. Combined Computer Science and Mathematics
B.Sc. Combined Statistics and Economics

B.Sc. Hons. Mathematics
B.Sc. Hons. Combined Computer Science and Mathematics

Certificate in Statistics

Knowledge
Pure mathematics (eg. algebra, calculus, geometry, number theory, topology); mathematical applications for assessing and solving ‘real’ problems (eg. employment trends); statistical methods (eg. sampling techniques) and data analysis; actuarial mathematics, statistics and risk theories in the design of insurance, pension and other programs; statistical software and computing.

Skills
Analyze the structure of proof; deduce theorems and construct mathematical models; apply quantitative knowledge and reasoning to theoretical and applied sciences (eg. population biology, computer graphics, internet security); apply statistical methods to survey development and analysis; utilize statistical software; think logically and analytically
Sample Courses

MATH: Euclidean Geometry, Matrix Theory, Modern Algebra, Linear Optimization, Real Analysis

STAT: Sample Theory, Categorical Data Analysis, Advanced Probability, Design and Analysis of Experiments

ACSC: Econometric Models and Forecasts, Risk Theory, Introduction to Casualty Insurance and Credibility, Mathematics of Finance, Canadian Pension Plan Review

Possible Careers
Actuary; Account Manager; Cryptologist; Curriculum Developer; Financial Analyst; Insurance; Purchasing Agent; Statistician; Professor

Priority Courses:

<table>
<thead>
<tr>
<th>Intro Major courses</th>
<th>MATH 110, 111, 122</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td>STAT 160, CS 110, ENGL 100</td>
</tr>
<tr>
<td>Other Intro Options</td>
<td>Natural Science elective, Arts Elective</td>
</tr>
<tr>
<td>If needed</td>
<td>MATH 102</td>
</tr>
</tbody>
</table>

*NOTE: Students who have not completed Pre-Calc 30 or Foundations of Math 30 (or equivalents) are required to complete a preparatory Math sequence prior to taking Math 103 or Math 110. The following courses must be taken in sequence:

AMTH 091 -> AMTH 092 -> Math 102

Please note that AMTH 091 and 092, although required to meet pre-requisites, may not be used within the B.Sc., Diploma, or Certificate programs. Math 102 may be used to meet a Science elective requirement.
Programs in Physics
www.phys.uregina.ca

B.Sc. Physics
B.Sc. Applied Physics
B.Sc. Hon. Physics

Knowledge
Properties and behavior of matter and energy; origin, evolution and structure of the universe; fundamental laws of nature; mechanics, waves and optics; electricity and magnetism; heat and thermodynamics; health physics; atomic and nuclear physics; quantum mechanics; solid state physics; research methods and data analysis using specialized electronic and computer equipment.

Skills
Apply principles of physics and mathematics to understand and solve problems in different fields; design and perform experiments with specialized equipment; think analytically and creatively; write precise technical reports.

Sample Courses
Heat and Thermodynamics, From Quarks to the Cosmos, Atomic Physics, Health Physics

Possible Careers
Aeronautics & Space industries; Biophysics; Health Physicist; Laser Technician; National Defense Physicist; Quality Assurance; Research Physicist

Priority Courses:

<table>
<thead>
<tr>
<th></th>
<th>PHYS 111, 112, MATH 110, 111, 122,</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro Major courses</td>
<td></td>
</tr>
<tr>
<td>Core</td>
<td>ENGL 100, CHEM 104, CS 110</td>
</tr>
<tr>
<td>Other Intro Options</td>
<td>Arts elective</td>
</tr>
<tr>
<td>If needed</td>
<td>MATH 102</td>
</tr>
</tbody>
</table>
Programs in Psychology  
http://www.uregina.ca/arts/psychology/index.html

B.Sc. Psychology  
B.Sc. Hon. Psychology

**Knowledge**  
Normal and disordered patterns of mental and behavioural functioning; natural science of psychology, including the brain and behaviour, perception, learning, memory, cognition, motivation and emotion; social science of psychology, personality and influence of the social environment; structure and function of the nervous system; brain mechanisms and related theories of influence normal and abnormal behavior; human information processing; quantitative and qualitative research methods and statistical analysis

**Skills**  
Understand individual and group behavior; develop plans for enhancing quality of life and solving human problems; analyze complex problems from multiple perspectives; conduct research with understanding of ethical issues and cultural sensitivity; perform statistical analyses; learn independently and think critically; write clear and concise papers and reports

**Sample Courses**  
Research Methods in Psychology, Abnormal Psychology, Human Information Processing, Forensic Psychology

**Possible Careers**  
Case manager, Client Care Counsellor, Community Development, Crisis Worker, Human Resources, Public Relations, Leisure Services, Neuropsychology, Training Consultant

**Priority Courses:**

<table>
<thead>
<tr>
<th>Intro Major courses</th>
<th>PSYC 101, 102</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td>ENGL 100, BIOL 100, 101, CHEM 104, CS 110</td>
</tr>
<tr>
<td>Other Intro Options</td>
<td>MATH 110, CS 110</td>
</tr>
<tr>
<td>If needed</td>
<td>CHEM 100, MATH 102</td>
</tr>
</tbody>
</table>
Bachelor of Medical Laboratory Science (B.M.L.S.)
Joint Program (Saskatchewan Polytechnic)

Pre-requisite: Diploma in Medical Laboratory Technology (MLT) from Saskatchewan Polytechnic (Kelsey Campus)

The Diploma in Medical Laboratory Technology gives the student accreditation to work in the field of Medical Lab Science, and forms the first 60 credit hours of the BMLS. Students will complete the remaining credit hours for the Bachelor’s degree at the University of Regina.

Knowledge
Scientific, technical and medical principles of performing and evaluating medical laboratory tests; cell biology, anatomy and physiology; transfusions and anemias; metabolism, enzymes and nucleic acids; biochemical compounds (eg. proteins, steroids, vitamins); synthesis of organic compounds; genetics and DNA technology/genetic engineering; infection control and safety; research methodologies in health care; Indigenous perspectives on health; Organizational Behavior (eg. teams); Biometrics and Statistics; professional communication (oral and written)

Skills
Perform lab procedures for analytical testing in clinical chemistry, hematology, and transfusion labs, as well as processing in histotechnology labs; use diagnostic techniques to identify nucleic acid sequences; apply procedures for investigating biochemical compounds (eg. proteins, steroids, vitamins); identify and interpret microorganisms in body sites; apply research methods and techniques; write concise technical reports
Sample Courses
Metabolism, Biometrics, Cell Biology, Enzymes, Biomedical Ethics, Management Communication

Possible Careers
Environmental Inspector; Medical Laboratory Technologist; Process Operator; Research Assistant; Related positions in medical laboratories in hospitals, medical clinics, and industries including Environmental Protection, Research (eg. Agriculture and Food, Biotechnology, Pharmaceuticals)
Bachelor of Medical Radiologic Technology (B.M.R.T.)
(Dept. of Physics)
Joint Program (Saskatchewan Polytechnic & others)

Pre-requisite: Diploma in Medical Radiologic Technology (MRT) from Saskatchewan Polytechnic (Kelsey Campus) or comparable program.

The Diploma in Medical Radiologic Technology gives the student accreditation to work in the field of Medical Imaging, and forms the first 60 credit hours of the BMI. Students will complete the remaining credit hours for the Bachelor’s degree at the University of Regina.

Knowledge
Anatomy; physiology; pathology; patient care; radiobiology; health and safety; nature and behavior of matter and energy; analytical and logical thinking

Skills
Apply radiological and radiographic techniques; operate X-ray equipment; conduct diagnostic medical imaging examinations; analyze data; write technical reports

Sample Courses
Developmental Psychology, Waves and Optics, Physics, Sociology of Health

Possible Careers
Medical Radiologic Technologist; Research Assistant; Clinical Instructor; Related positions in hospitals, medical clinics, veterinary clinics, Computer Tomography, Mammography and Specialized Radiography
General Information
### Semester System

The University of Regina has three semesters:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>September to December</td>
</tr>
<tr>
<td>Winter</td>
<td>January to April</td>
</tr>
<tr>
<td>Spring/Summer</td>
<td>May to August*</td>
</tr>
</tbody>
</table>

*Most courses in the Spring/Summer semester are offered in 6 week sessions during May and June or July and August; or in 3 week sessions in each of May, June, July, or August.

Registration begins...

<table>
<thead>
<tr>
<th>Semester</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter</td>
<td>November</td>
</tr>
<tr>
<td>Fall</td>
<td>March</td>
</tr>
<tr>
<td>Spring/Summer</td>
<td>March</td>
</tr>
</tbody>
</table>

Check your Time-Ticket for the exact date you are eligible to register (See pg. 51)

Students may take a maximum of 15.0 credit hours in each of the Fall and Winter semesters.

Students may take a maximum of 12.0 credit hours over the Spring/Summer semester.

**If you are working with Student Loans, a Study Permit, Student Visa, or Scholarship, you may be required to take a minimum number of credit hours.**
Access Student E-mail

The University of Regina uses e-mail as an official means of communication. All students are given a U of R e-mail account.

To find your username, go to the Computing Services Website:

http://www.uregina.ca/is/

Then, click on “Find Username & Password” in the grey box on the right hand side of the page.

You will need to enter your student number and birth date.

You will be given your username and e-mail password. From this page, you will also be able to:

✓ change your password
✓ forward your e-mail to another account
✓ access the webmail interface

To access your e-mail from the U of R Homepage, click on the “WEBMAIL” Link located in the black bar at the top of the screen, or

https://webmail.uregina.ca/

Enter your username and password.

If you have trouble with your e-mail account, please contact IT Services (Main Floor, Library) 585-4685.

It is very important that you check your University e-mail account regularly. We will send you important information about your academic standing, as well as class cancellations, campus events and updates.
Tuition and Fees

Your tuition will be charged to your account upon course registration. Your fees are due the first day of the semester. For a copy of the current Tuition and Fee Schedule see https://www.uregina.ca/fs/students/fee-schedule.html

Account information is available on UR Self-Service (see pg. 60). You may also pay your fees online through this system.

You may pay your fees or inquire about your balance owing in person at Financial Services (AH 205) 585-4123.

Photo ID Cards

You must obtain a photo ID card. It allows you to use the library, access recreational facilities such as the Fitness and Lifestyle Centre, and to write final exams.

To get your photo ID card, bring government issued photo ID to the Registrar’s Office (AH 210) once you have registered in your courses.
Textbooks

Your textbook list will be posted online through UR Self-Service approximately 1 month before classes begin.

Textbooks will be available at the University Bookstore (located in the College West building) about 3 weeks before classes begin.

Both new and used textbooks are available for purchase. Some of your textbooks may be available online or in e-book format. You may even be able to rent some of your textbooks. See the Bookstore website for details. http://www.uregina.ca/student/bookstore/index.html

The U of R Student Union (URSU) holds a used book sale before classes begin. This is an opportunity for students to sell their old textbooks to other students, and can often be purchased at a reduced cost.

When purchasing textbooks, it is important to ensure that you have the correct version. Textbooks are updated fairly regularly to ensure the most up-to-date and accurate information.

Important Dates

Important Dates can be found in the Academic Schedule.

Click on the “ACADEMIC SCHEDULE AND CALENDARS” link located in the black bar at the top of the University of Regina homepage, or:

https://www.uregina.ca/student/registrar/calendars-schedule.html
Understanding Your Grades
Grades

See the section titled “Grading System and Descriptions” in the Undergraduate Calendar.

Most courses are graded by percentage (0 – 100%)

With a grade of 50% or higher, you will earn the credit hours for the course (PASS).

It is recommended (and sometimes required) that you do not move forward in a particular subject unless you have received a grade of 65% or higher.

Courses with a grade below 50% are considered failing grades and you will NOT receive the credit hours for the course.

Letter Grades

W – Withdrawal (neutral grade)

P – Pass

F – Fail

NP – “not passed” (incomplete) = 40%

XF – Academic Misconduct (Penalty) = 0%
Understanding your GPA

There are several measures of academic standing at the University of Regina.

**Undergraduate Grade Point Average (UGPA)** – the average grade of all courses you have taken (with certain exceptions such as repeated courses, see pg. 59).

Your UGPA is the average you will see when you log in to UR Self-Service and view your unofficial transcript.

You must maintain a minimum UGPA of 60% to maintain **Good Academic Standing** (see pg. 39).

**Program Grade Point Average (PGPA)** – the average of all courses that meet requirements in your program.

Your PGPA can be calculated using your Program Outline.

You must possess a PGPA of at least 65% or higher in order to graduate.

**Major Grade Point Average (MGPA)** – the average of all courses meeting course requirements in the major portion of your program.

Your MGPA can be calculated using your Program Outline.

You must possess an MGPA of at least 65% or higher in order to graduate.
Cumulative Grade Point Average (CGPA) – the average grade of all courses you have taken at the University of Regina, including repeated courses. We rarely use this calculation at the University of Regina, but you may need it if applying to programs at other institutions.

Term Grade Point Average (TGPA) – the average of all courses you have taken in one semester.

To Calculate your GPA:

1. Check to see which courses are included in the GPA you are calculating.
2. Multiply your grade in each included course by the number of credit hours in the course (= quality points).
3. Add the quality points for all included courses.
4. Divide the total number of quality points by the total number of credit hours completed.
**Academic Standing Regulations**

Student records are reviewed at the end of every semester for Academic Standing.

**You must maintain a minimum 60% UGPA in order to remain in Good Academic Standing, and a minimum 65% PGPA and MGPA in order to graduate.**

**Academic Probation (AP)**

If your UGPA falls below 60%, you will be placed on Academic Probation.

Students on probation are given 24.0 credit hours to raise their UGPA to the minimum requirement (60%). Faculties may impose additional conditions. Contact your academic program advisor if you have questions regarding Academic Probation.

Students on Academic Probation may continue studies. They may also transfer faculties unless the regulations of the receiving faculty prohibit this.

**Must Withdraw (MW) – University level**

If you fail to clear Academic Probation, fail to meet other performance requirements, or fail a third completed attempt at ENGL 100, you must withdraw (MW) from the University of Regina.

Students who MW may not continue their studies for a minimum of three full consecutive terms (first MW), or indefinitely (second MW).
Requirement to Discontinue (RTD) – Faculty Level

Students who fail more than 50% of their credit hours in a single semester will receive a letter of academic advisement.

Students whose records indicate they have failed courses totalling more than 30.0 credit hours are required to discontinue from the Faculty of Science for two semesters (this includes courses that were later repeated and passed).

Students who fail to meet a program requirement, or who receive a second failure in a mandatory course will be required to discontinue from the Faculty of Science.

On the recommendation of the Faculty Committee on Admissions and Studies, the Faculty may also require students to discontinue indefinitely from the Faculty of Science for reasons of health or unsatisfactory academic or professional development.

For a complete explanation of Academic Standing Regulations, see Sections titled “Evaluation of Academic Performance” in the Undergraduate Calendar.
Academic Integrity
**Academic Integrity**

The moral code or ethical policy of academia. This includes values such as avoidance of cheating or plagiarism; maintenance of academic standards; honesty, diligence, rigor and integrity in research and academic publishing.

For detailed information concerning Academic Integrity, see our website: [http://www.cs.uregina.ca/UndergradProgram/integrity.html](http://www.cs.uregina.ca/UndergradProgram/integrity.html)

See Also the Calendar Section titled “Academic Misconduct” regarding Academic Integrity and consequences of a failure to uphold the moral and ethical standards concerning conducting oneself’s self in an academic setting.

**General Principles**

- Students are to do their own, original, individual work unless told otherwise by the course instructor; and,

- Students are to give credit for other people’s ideas or words.
Cheating

Includes but is not limited to:

- Copying from another student’s exam paper
- Using unauthorized notes during an exam
- Arranging for a substitute to take an exam
- Giving or receiving unauthorized information prior to an exam

Plagiarism

Includes but is not limited to:

- Borrowing information or ideas, whether directly quoted or paraphrased, from any source beyond one’s first-hand experience and not acknowledging the source.

Co-Responsibility

- Any student who knowingly assists in any form of academic dishonesty shall be considered as guilty as the student who accepts such assistance.
- Take care when allowing your work to be copied or used by other students to ensure academic dishonesty is not occurring.
- Do NOT sell or give unauthorized copies of exams to other students.

All instances of academic misconduct will be referred to the Dean or designate (Associate Dean).
Avoiding Plagiarism – REFERENCING

Students MUST give credit for any material used by identifying the source of the information using one of the generally accepted citation methods.

There are several citation formats that may be used at the University of Regina. If your professors do not indicate a preference, don’t be afraid to ask them.

Resources for APA, ASA and MLA styles can be found at:

https://www.uregina.ca/student/ssc/tutoring/writing-support/referencing/index.html
Graduation Requirements
Graduation Requirements

In order to graduate with a Bachelor’s degree in the Faculty of Science you must meet the following requirements:

Credit hours:

☑ Completed a minimum of 120.0 credit hours.

Courses:

☑ Completed all course requirements for your program (program course outlines can be found in the Undergraduate Calendar or the Faculty of Science website), with a minimum grade of 50% in each.
☑ A maximum of 20 introductory level (numbered 1xx) courses may be used to meet course requirements in your program.

Grades:

☑ Obtained a UGPA of at least 60% for a B.Sc. program (you must be in good academic standing).
☑ Obtained a PGPA of at least 65% for a B.Sc. program.
☑ Obtained a MGPA of at least 65% for a B.Sc. program.
☑ Obtained a PGPA of at least 70% for a B.Sc. Hons. program.
☑ Obtained a MGPA of at least 75% for a B.Sc. Hons. program.

Residency:

☑ At least 50% of the courses in the program, and 50% of the courses in the major must have been completed at the University of Regina (See Residency Requirements).
It is recommended that prior to your last semester, you consult your Academic Program Advisor for a “Graduation Check” to ensure that at the end of your last semester, you will have met all of the requirements for graduation.

**You must APPLY for graduation** by the Graduation application deadline in order to graduate. These deadlines are early.

To graduate at Spring Convocation (June), you must apply by:

November 30 (Fall semester completion) or,
January 31 (Winter semester completion)

To graduate at Fall Convocation (October), you must apply by:

July 31

The graduation application form can be obtained from the Science Student Services Office, or you can find it online at:

[https://www.uregina.ca/student/registrar/assets/docs/pdf/forms/graduation-application.pdf](https://www.uregina.ca/student/registrar/assets/docs/pdf/forms/graduation-application.pdf)
Registration
Registration Short Checklist

☑ Check your registration Time-Ticket and Holds.

☑ Review your Program Outline.

☑ Decide how many courses you wish to take in the upcoming semester.

☑ Make a list of courses that, if available, you’d like to take in the upcoming semester.

☑ Prioritize those courses from most important to least important.

☑ Search for the course in Visual Schedule Builder (Be sure to keep track of Final Exam dates and CRN numbers.)

☑ Continue searching for courses and arranging classes and labs in order of importance until you are satisfied with your schedule.

☑ Double check to ensure that the proposed course Final Exam dates and times do not conflict.

☑ Enter the CRNs in the Registration worksheet in UR Self-Service under the “Add/Drop Courses” Tab.

☑ Resolve any registration errors.

☑ Confirm registration in Confirmation of Enrolment page.
**Time-Ticket**

Students register according to a priority system in which those who have earned the most credit hours register first. During the days set aside for time-ticket registration, time-tickets will be released at 9:00a each day.

Registration time-tickets are available to students in UR Self-Service two weeks prior to the start of registration. Students are not permitted to register before the assigned time-ticket. Your time-ticket tells you the first day you can register for the semester. You may register on that day, or any day after, until the add deadline for the semester.

**Time-ticket:**

The date that you are allowed to register for classes for the upcoming semester.

Your time ticket depends on how many credit-hours you have already completed.

To check your time-ticket:

1. Login to UR Self-Service (see pg. 60).
2. Click on **Registration**.
3. Click on **Check your Registration Status**.
4. Select a **Term**.
5. Look at your **Time-ticket**.
6. Check to see that you do not have any holds preventing registration.
Student Holds

A Hold is a restriction placed on your UR Self-Service account that may:

- Prevent you from registering for classes;
- Prevent the release of your transcripts; or,
- Indicate some sort of tracking on your account.

Some examples of holds that may be placed on your account:

**Advising Hold (AA):** You are required to see your academic advisor prior to registration (book an appointment with your advisor).

**Conditions on Registration (CR):** There are conditions that must be checked or met prior to registration (contact the Student Services Office in your Faculty).

**Financial Hold (FH):** You owe tuition and fees that must be paid prior to release of transcripts or registration, depending on the amount owed (contact Financial Services).

**Admissions Hold (TM):** There are documents or other requirements that must be received by the university prior to registration or release of transcripts (contact Admissions).

Holds are simply our way of tracking students. If you have a hold on your account, contact the appropriate office to find out why the hold is there and what you need to do in order for it to be removed.
**Program Outlines**

A program outline is a list of the courses required for your program.

If pursuing a Bachelor’s degree, your program outline will list 40 courses that you must complete to meet the requirements for Graduation.

The program outlines for Science programs can be found in the University of Regina Undergraduate Calendar & Course Catalog or on the Science Student Services website. You may also request a program outline updated with your completed courses from the Science Student Services office.

Unlike some programs at the University of Regina, Science programs are quite flexible, and do not have rigid, semester-by-semester course requirements. This allows students to work at their own pace and adjust their schedule to meet their own unique needs. You are responsible however for making sure that you have the pre-requisites for any course you take.

**Pre-requisite:**
A course that a student must take before being admitted to another, higher level course.

**NOTE:** If you take a course for which you do NOT have the pre-requisite, you may be denied credit for that course.

Pre-requisites for a course are listed in the course description in the Catalog, and can also be found in the **Visual Schedule Builder**.
Course Loads

| Lectures          | 3 hours each week  
|                   | 1st year lecture courses may be delivered to between 35 and 500 students. |
| Labs              | 1 – 3 hours each week  
|                   | or every other week  
|                   | Most science courses will have a lab component. |
| Seminars          | 1 hour each week  
|                   | Large lecture courses break into small groups for discussion. |
| Homework          | Approx. 3 hours of independent study per hour of lecture time. Expect to do A LOT of homework. |

1 course = 3 credit hours

- Full-time: 9.0 – 15.0 credit hours (3 – 5 courses)
- Part-time: 3.0 – 6.0 credit hours (1 – 2 courses)
How many courses should I take?

A student is allowed to take up to 5 courses in each of the Fall and Winter semesters, and 4 courses over the Spring/Summer semester.

To take 1 course, you are committing to:

- 3 hours per week lecture time.
- Approx. 3 hours of self-study (homework) per hour of class time (9 hours per week).
- If the course has a lab, there is an additional 1 - 3 hours per week of lab time.

When determining how many courses you want to take, keep in mind the following formula:

\[
\text{Total # of hours per week committed to School} = \frac{\# \text{ of courses} \times 3 \text{ hours/wk lecture time}}{} + \frac{\# \text{ of courses} \times 3 \text{ hours self-directed study}}{} + \frac{\# \text{ of Labs} \times 1 \text{-3 hours}}{}
\]

Eg. For a full course load of 5 classes, three with 3-hour labs, the total time commitment to your studies per week is approximately 54 hours per week. That’s more than a full-time job!
Choosing Courses

Having identified which courses are required for your program, you will want to make a list of courses you should take in the upcoming semester.

NOTE: Not all courses are offered every semester!

It’s important that you are taking courses that work towards progressing in your major area of study. There are often courses that are required as pre-requisites for higher level courses. It’s a good idea to identify these courses and take them as soon as they are available to you. As a general guideline, as you make progress in your program, it is a good idea to plan to take two courses in the major for every one elective.

Recommended Courses for First-Year and Undeclared Students

<table>
<thead>
<tr>
<th>Course</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 100</td>
<td>ENGL 110</td>
</tr>
<tr>
<td>MATH 102</td>
<td>MATH 110</td>
</tr>
<tr>
<td>BIOL 100</td>
<td>BIOL 101</td>
</tr>
<tr>
<td>CHEM 100</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>PHYS 109</td>
<td>PHYS 119</td>
</tr>
<tr>
<td>PHYS 111</td>
<td>PHYS 112</td>
</tr>
<tr>
<td>STAT 100</td>
<td>STAT 160</td>
</tr>
<tr>
<td>CS 110</td>
<td></td>
</tr>
<tr>
<td>GEOL 102</td>
<td></td>
</tr>
</tbody>
</table>

- These courses appear in most science programs and are the introductory level courses in all Science disciplines.
- Some of these courses require pre-requisites.
Common Elective Courses by Faculty

(See Course Catalogue for complete course listing, descriptions and course numbering)

<table>
<thead>
<tr>
<th>Faculty of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH – Anthropology</td>
</tr>
<tr>
<td>CATH – Catholic Studies</td>
</tr>
<tr>
<td>CLAS – Classical Studies</td>
</tr>
<tr>
<td>ECON – Economics</td>
</tr>
<tr>
<td>ENGL – English</td>
</tr>
<tr>
<td>ENST – Environmental Studies</td>
</tr>
<tr>
<td>GEOG – Geography</td>
</tr>
<tr>
<td>HIST – History</td>
</tr>
<tr>
<td>INDG – Indigenous Studies</td>
</tr>
<tr>
<td>INHS – Indigenous Health Studies</td>
</tr>
<tr>
<td>IS – International Studies</td>
</tr>
<tr>
<td>JRN – Journalism</td>
</tr>
<tr>
<td>JS – Justice Studies</td>
</tr>
<tr>
<td>LING – Linguistics</td>
</tr>
<tr>
<td>PHIL – Philosophy</td>
</tr>
<tr>
<td>PSCI – Political Science</td>
</tr>
<tr>
<td>PSYC – Psychology</td>
</tr>
<tr>
<td>RLST – Religious Studies</td>
</tr>
<tr>
<td>SOC – Sociology</td>
</tr>
<tr>
<td>SOST – Social Studies</td>
</tr>
<tr>
<td>WGST – Women’s and Gender Studies</td>
</tr>
<tr>
<td>Faculty of Media, Art &amp; Performance</td>
</tr>
<tr>
<td>-----------------------------------</td>
</tr>
<tr>
<td>ART – Art</td>
</tr>
<tr>
<td>ARTH – Art History</td>
</tr>
<tr>
<td>CTCH – Creative Technologies</td>
</tr>
<tr>
<td>FILM – Film</td>
</tr>
<tr>
<td>INA – Indigenous Art</td>
</tr>
<tr>
<td>INAH – Indigenous Art History</td>
</tr>
<tr>
<td>MAP – Media, Art and Performance</td>
</tr>
<tr>
<td>MU – Music</td>
</tr>
<tr>
<td>THAC – Theatre Acting</td>
</tr>
<tr>
<td>THDS – Theatre Design</td>
</tr>
<tr>
<td>THEA – Theatre</td>
</tr>
<tr>
<td>THST – Theatre Studies</td>
</tr>
</tbody>
</table>

*These courses meet the natural science requirement (must have a lab component).

Students completing a Science program have the option of completing a Minor using their elective courses, provided these courses meet category requirements. (See page 10 for additional information.)
Repeating Courses

You may repeat a course that you have previously attempted only once.

In exceptional circumstances, students may request permission from the Associate Dean for a third attempt at a course – however, be aware of Faculty RTD conditions (pg. 41).

When a course is repeated, the grade obtained in the final authorized attempt becomes the grade of record for that course. This means that if you repeat a course, the first grade will not be included in the calculation of your UGPA, but the second grade will – for better or for worse!

The Faculty of Science also adheres to course sequencing. This means that once you have moved forward in a particular course sequence, you may not repeat courses earlier in the sequence.

For example, Chem 104 is a pre-requisite for both Chem 105 and Chem 140. Once a student has passed Chem 105 or Chem 140, they may not afterwards repeat Chem 104 to improve their grade.

If you achieve a grade of less than 65% in a course within your major, it is recommended that you repeat that course prior to attempting more advanced courses in your major.
UR Self-Service

How to Log-in

1. Go to www.uregina.ca
2. Click on “UR Self-Service” in the black bar at the top of the page.
3. Enter your User ID and PIN.

User Name: SID number (10 digits ie. 200XXXXXX)

PIN: Birth date (DDMMYY)

After you have logged in for the first time, you will be prompted to change your PIN (must be 8-10 digits) and create a security question.

4. Click on Login.
5. If you are successful logging in, you will see a menu appear with “Student Services” at the top.

After 5 failed attempts to log in, your account will be locked and you will have to contact IT Services to reset your PIN.

If you are unable to login, contact the IT Support Centre at (306) 585-4685 or IT.Support@uregina.ca
Using Visual Schedule Builder (VSB)

1. Log-in to UR Self-Service.

2. Click on Student Services, Click on Registration.

3. Click on Search for Classes and Build Schedule

4. Click on “Go to the Visual Schedule Builder”

5. On the left, select your term.

6. Enter your selected courses, either by course code, or else by CRN number.

7. On the top right, you can select whether to include full classes or waitlist spots available, in the schedule builder.

8. For each course in the left column, click on “Show More”. Review the course description, pre-requisites and any notes listed for the course. There is IMPORTANT information here!

9. Identify any lectures/lab combinations that are restricted by reviewing “Class Remarks”. It’s recommended that you click to remove the checkmark next to each of those sections listed at the top, unless you belong to the restricted group.

10. Click and drag any time ranges on the schedule that you prefer to not have courses. For example, if you work evenings, you will want to click and drag the area representing your work hours to “gray them out”. This will move schedule options that don’t conflict with these times to the front of your Generated Results.
11. Click on the arrows under Generated Results, until you find a schedule that you are satisfied with.

12. Review the information for each course that appears in the middle column. Pay close attention to restrictions, special topics, and Final Exam dates and times.

13. Record the Course Reference Number’s (CRN) that appears under the Section number. They will also appear next to the cart icon.

Course Registration Number (CRN):
A unique five-digit number assigned to each section of a course and each lab. Keep track of this number for the course you have selected for ease in registration.

Tutorial Video:
https://www.youtube.com/embed/u2fJV7rpGYQ

NOTE: Visual Schedule Builder helps you plan your schedule, but does NOT Register you in classes!
How to Add or Drop Courses

1. Click on Registration at the main Student Services menu.

2. Click on Check your Registration Status.

3. Click on the Student tab at the top, then Registration and click Add/Drop/Search for Classes.

OR

- In Visual Schedule Builder, “right-click” on the UR Self-Service link in the text at the bottom of the page to open the page in a new tab.

Select the Term.

To Add a course:

1. Enter the CRN’s for each course and each lab into the boxes, starting on the left.

2. Click on Submit Changes.

3. Continue to register for classes until all of your selected courses appear in the “Current Schedule” Section.

To Drop a course:

1. Scroll down to Current Schedule.

2. Click on the drop-down arrow under the Title Actions and choose the available option to drop. Make sure you select the right course!

3. Click on Submit Changes.
To confirm your registration:

1. Click on Registration at the main Student Services menu.

2. Click on Confirmation of Enrolment.

You may make changes to your registration up until the “Drop Deadline” (see Important Dates pg. 35).

Changing a Lab or Seminar but don’t want to lose your seat in the lecture? Go to Add/Drop/Search for Classes and enter the CRN for the lab/seminar you want to add into the Add Course Worksheet and then click on the drop box for the lab/seminar you wish to drop in the Current Schedule, and click drop. Then click Submit Changes. If you do this separately, you risk losing your seat in the course.

You may drop a course right up until the drop deadline. Depending on how early you drop the course, you may or may not be eligible for a tuition refund.

If you drop a course after the “Grade of W” drop deadline, you will receive a grade of NP for the course.
Restrictions and Errors

After you have clicked on **Submit Changes**, you may see the message:

Registration Add Errors

This means that there are restrictions on the course that prevent you from registering. You will not be able to register in a course that has “Registration Add” errors. *Do not simply keep trying.*

**If you feel that the registration error is incorrect, please contact the Science Student Services Office.**

The explanation of the restriction is given under the status column. Sometimes, special permission can be obtained to override the restriction or error.

To request permission:

1. Fill out the **Registration Permit/Override** form, available at: [https://www.uregina.ca/science/assets/docs/pdf/registration_override.pdf](https://www.uregina.ca/science/assets/docs/pdf/registration_override.pdf)
2. Talk to the Instructor or Department Head as indicated on the form and ask for permission. They must sign this form for an override to be applied.
3. Return the completed form to the Science Student Services Office (LB 238).
4. Go to “**Check your registration status**” regularly to see if the override has been entered.
5. Once the override has been entered, you may add the course to your registration using UR Self-Service.
Example Restrictions and Errors

<table>
<thead>
<tr>
<th>STATUS MESSAGE</th>
<th>WHAT IT MEANS...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus Restriction</td>
<td>Course is restricted to students in a federated college.</td>
</tr>
<tr>
<td>College Restriction</td>
<td>Course is not available to students outside of the faculty offering the course.</td>
</tr>
<tr>
<td>Closed Section</td>
<td>Course is full.</td>
</tr>
<tr>
<td>Duplicate CRN</td>
<td>CRN has been entered twice.</td>
</tr>
<tr>
<td>Link Error “X” Required</td>
<td>You have not entered both the lecture and the correct corresponding lab or seminar section. (You either missed, or have the wrong lab section.)</td>
</tr>
<tr>
<td>Maximum Hours Exceeded</td>
<td>You have tried to register in more credit hours than your program allows.</td>
</tr>
<tr>
<td>Permit req’d / see CRN details</td>
<td>Course has special requirements to register. See details in class search.</td>
</tr>
<tr>
<td>Pre-req and Test Score Error</td>
<td>You have not completed a required pre-requisite course.</td>
</tr>
<tr>
<td>Program Restriction</td>
<td>Course is not available to students in your degree program.</td>
</tr>
<tr>
<td>Repeat Count Exceeds 1</td>
<td>This is your third attempt to take the same course. You will need special permission for a 3rd attempt.</td>
</tr>
<tr>
<td>Time Conflict with CRN XXXXX</td>
<td>Course times overlap.</td>
</tr>
</tbody>
</table>

If you can’t resolve the restrictions or errors, you must select another course.
Student Support Resources
Science Student Services

Science Student Services manages all undergraduate student matters, including program selection, transfer credit, program information, academic advising, registration and graduation processing for the Faculty of Science.

We can assist you with:

- Determining outstanding degree requirements
- Calculating your grade point average
- Information on program or course changes
- Changing your major or minor
- Evaluating transfer credit
- Requesting to take a course at another institution (Letter of Permission)
- Requesting a deferral of final exam or term work
- Scholarship information
- Applying to graduate
- Determining best strategies to improve academic standing
- Interpreting University rules, regulations and policies
- Acting as a resource to other campus services, etc.

Check out our website for our FAQ, Advising, forms, scholarships and links for further information for students.

Location: Lab Building (LB) Rm 238

Phone: (306) 585-4199
Fax: (306) 585-4894

e-mail: science@uregina.ca

website: www.uregina.ca/science
(Student Services Tab)
Student Success Centre

Free services are available to support your learning experiences at the University of Regina, including:

- Workshops and Events
  - Conquering your First Semester
  - Note taking and reading
  - Exam Preparation
  - Academic Writing
  - Time Management
  - Discover your Learning style
- Writing Service
- Math & Stats tutoring
- Individual Learning Skills consultations
- Early Referral Program
- Academic Recovery program (for students facing RTD or MW rulings)

Check out the website for study skills resources and workshop schedules.

Location: Riddell Centre (RC) Rm 230

Phone: (306) 585-4076
Fax: (306) 585-4056

e-mail: student.success@uregina.ca

website: https://www.uregina.ca/student/ssc/

The Student Success Centre may contact you if you are referred to them by a Professor or Advisor.
Global Learning Centre (GLC)

Access free services and programs tailored to assisting you during your academic journey. From English language assistance to navigating the University of Regina academic system, our staff, coaches, tutors, and volunteers will provide you with continuous valuable support!

Language Skill Development
- English Coaching
- Conversation 1-on-1
- Conversation Club

Study Skills Support
- Tutoring and Study Assistance
- Workshops

Personal Support
- UR Support 1-on-1
- Sharing Circle

Check out the website for resources, appointments and schedules.

Location: CW 115
Phone: (306) 585-5082
e-mail: Global.Learning.Centre@uregina.ca

website: https://www.uregina.ca/international/global-learning-centre/index.html
UR Guarantee

The UR Guarantee Program will support you through every step of your university experience to successful employment. UR Guarantee students have an advisor to help with all aspects of University life. The program assists you in your transition to university undergraduate studies, by participating in relevant academic workshops, advising on other student engagement opportunities on-campus and assisting you with career development activities. You will also have opportunities for service and leadership experience which is both rewarding on a personal level, but also looks great on your resume. Combine that with practical hands on experience in resume writing, interview skills training, career counselling, attending career fairs and participating in networking opportunities and we believe that you will have a recipe for success.

Newly admitted or transfer students (with 30 credit hours or less of post-secondary classes) - if you do not secure career-related employment within six months of graduation, you will be eligible to come back for another year of undergraduate classes free of charge (tuition and course fees).

Check out the website for further information!

Location: Riddell Centre (RC) Rm 229
Phone: (306) 585-3316
e-mail: guarantee@uregina.ca
website: https://www.uregina.ca/urguarantee/
E-mail Accounts and Computer Support:

Computers are available for student use in ED 440, ED 440.1, Archer Library (Main floor and 6th floor), and CL 109.

IT Support Centre

Location: Education Building (ED) Rm 137
Archer Library - Main floor

Phone: (306) 585-4685

e-mail: IT.Support@uregina.ca

website: https://www.uregina.ca/is/
Advising and Career Education (ACE)

The Career Centre is there to help you with every step of your career exploration, including information on various career paths, academic and professional development seminars, resume writing, interview skills, and a student job board.

Co-op and internships incorporate productive work experience as part of your degree program. Work experiences enhance your academic studies, provide you with work-related skills and employer contacts which will assist you in finding permanent employment after graduation, and allow you to explore your career options prior to graduation.

Walk-in General Academic Advising is also available during regular office hours.

For further information, check out the Career Centre Website and watch for upcoming workshops.

Location: Riddell Centre (RC) Rm 163
Phone: (306) 585-5161
Fax: (306) 585-4659

E-mail: student.employment@uregina.ca
Website: https://www.uregina.ca/careercentre/cxc/
Centre for Student Accessibility

The Centre for Student Accessibility is designed to provide an equal opportunity for access to education and the University of Regina community for students with particular needs.

The University of Regina wishes to effectively assist all students in achieving their academic goals, including students with disabilities. The Centre for Student Accessibility provides services that will enable students with disabilities to approach their studies in an equal and effective manner.

If you have a disability that may affect your studies, please notify your advisor and contact the Centre for Student Accessibility to make arrangements for accommodations.

Location: Riddell Centre (RC) Rm 229
Phone: (306) 585-4631
Fax: (306) 585-5650
e-mail: accessibility@uregina.ca

website: https://www.uregina.ca/student/accessibility/index.html
Counselling Services

Counselling Services offers personal counselling for individuals experiencing problems, group counselling for students interested in improving study habits or working through personal issues in a group setting and emergency counselling for individuals who suddenly find themselves in crisis.

If you or someone you know is in crisis, contact Counselling Services as soon as possible!

Mobile Crisis Line (after hours): (306) 525-5333

Location: Riddell Centre (RC) Rm 251
Phone: (306) 585-4491

website: https://www.uregina.ca/student/counselling/index.html
Student Awards and Financial Aid

The Student Awards and Financial Aid office is responsible for posting and processing Scholarships and Student Awards, as well as assisting with student loans.

There are hundreds of scholarships and awards that you may be eligible for, some based on area of study, some based on academic achievement, and some based on financial need. See the SAMS database to identify available awards offered through the University of Regina.

Student Awards offers application workshops that you can attend for information on how to fill out the applications and tips for filling out the personal statement and the extra-curricular involvement pages.

There are regular application deadlines for the various awards. Scholarship descriptions, requirements, application deadlines, and application forms can be found on the Student Awards and Financial Aid website.

Location: Administration Humanities Building
Enrollment Services

Phone: (306) 585-4591
Fax: (306) 585-5559

e-mail: scholarships@uregina.ca

website: https://www.uregina.ca/safa/
University of Regina Students’ Union (URSU)

URSU is the University of Regina’s Student Government Body. They are responsible for many important Student Services including:

- Student Health and Dental Plan
- Student Advocate
- Tutor Registry
- Good Food Box
- The Owl (Student Pub)
- Housing Registry
- Represent the students on the various University Committee and Policy making bodies.

Beyond providing student services, URSU is responsible for defending students’ rights through lobbying, advocacy and activism. URSU supports through funding and/or materials, student groups, support centres, seminars, student travel, etc.

Watch for URSU’s Student Agenda, available free around campus, and check out their website for further information.

Location: Riddell Centre (RC) Rm 221
Phone: (306) 586-8811
Fax: (306) 586-8812
e-mail: contactus@ursu.ca
website: www.ursu.ca
UR International & Study Abroad

UR International is responsible for both students coming to study in Canada, and those students interested in studying abroad. They offer assistance with understanding your study permit, where to get help with practicing English, and where to find the best places to go on exchange. Services offered include:

- Global Learning Centre
- Life Skills Advisors on site
- Immigration Advising
- Banking in Canada
- Driving in Canada
- Health Coverage
- Student Clubs
- Campus Services
- City Guide
- Invitation Letter request forms
- Travel Funds
- Assistance setting up a study exchange
- Assistance with understanding Student Visa, Study Permit and Immigration requirements.

Location: College West (CW) Rm 109

Phone: (306) 585-5082
Fax: (306) 585-4957

e-mail: international@uregina.ca

website: https://www.uregina.ca/international/
Quicksheet – Where do I go for help?

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
<th>Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration and Academic Concerns</td>
<td>Student Advising, Registration, Holds, Science Qualifying, Program Information, Overrides, Transfer Credit, etc.</td>
<td>Science Student Services</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LB 238</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(306) 585-4199</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="mailto:science@uregina.ca">science@uregina.ca</a></td>
</tr>
<tr>
<td>Financial Issues</td>
<td>Tuition, financial holds, payment arrangements and accounts</td>
<td>Financial Services</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AH 205</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(306) 585-4123</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="mailto:financial.services@uregina.ca">financial.services@uregina.ca</a></td>
</tr>
<tr>
<td>E-mail Accounts &amp; Computer Support</td>
<td>Email, UR Courses, logins and passwords, printing and UR Self-Service</td>
<td>IT Support Centre</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Archer Library</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(306) 585-4685</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="mailto:IT.Support@uregina.ca">IT.Support@uregina.ca</a></td>
</tr>
<tr>
<td>Special Needs</td>
<td>Physical injury, learning disability, accommodations</td>
<td>Centre for Student Accessibility</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RC 251</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(306) 585-4631</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="mailto:accessibility@uregina.ca">accessibility@uregina.ca</a></td>
</tr>
<tr>
<td>Counselling Services</td>
<td>Mental health issues, grief, overwhelm/stress</td>
<td>Counselling Services</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RC 251</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(306) 585-4491</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(appointments can be scheduled online)</td>
</tr>
</tbody>
</table>
| **Co-operative Education and Internships** | Students interested in obtaining a co-op designation or participating in work experience options. | **Cooperative Education Program**  
RC 163  
(306) 585-4600  
Coop.office@uregina.ca |
|---|---|---|
| **Student Exchange Opportunities** | Students interested in doing an exchange to an international institution. | **Study Abroad**  
CW 128  
(306) 337-2446  
Study.Abroad@uregina.ca |
| **Student Visa’s Study Permits** | International Students with questions concerning study permits, student visa’s, work eligibility, etc. | **International Student Services Office**  
CW 109  
(306) 585-5082  
International.studentservices@uregina.ca |
| **Applications to Science** | Admissions requirements, application process etc. for domestic/Canadian students | **Enrollment Services**  
AH 108  
(306) 585-4591  
Enrolment.services@uregina.ca |
| **Enrollment Services** | Admissions requirements, application process etc. for international students | **International Admissions**  
CW 127  
(306) 585-6260  
International.admissions@uregina.ca |
| **Practical Student Issues** | Lockers, Bus pass, Health Plan, Student Advocate | **University of Regina Students’ Union** (URSU)  
RC 221  
(306) 586-8811  
Member.services@ursu.ca |
Questions?
Contact us for further information

Science Student Services
Faculty of Science Student Services
LB 238, University of Regina
(306) 585-4199
science@uregina.ca

For further info including access to printable forms, program information and an extensive FAQ, please visit our website!

www.uregina.ca/science/student