

CLAYTON H. RIDDELL FACULTY OF ENVIRONMENT, EARTH, AND RESOURCES

General Office

Dean: Dr. Andrew Frederiksen

Associate Dean(s): Andrew Frederiksen (Academic), Feiyue Wang (Research and Innovation)

Campus Address/General Office: 440 Wallace Building

Telephone: (204) 474-7252

Fax: (204) 275-3147

Email Address: Riddell.Advisor@umanitoba.ca

Website: <https://umanitoba.ca/environment-earth-resources/>

Academic Staff: Please refer to the Clayton H. Riddell Faculty of Environment, Earth, and Resources Academic Staff Academic

Staff website (<https://umanitoba.ca/environment-earth-resources/faculty-staff/>)

Degree Programs Offered

The Clayton H. Riddell Faculty of Environment, Earth, and Resources offers degree programs in Earth Sciences, Environmental Science, Environmental Studies, Geography, Physical Geography, Geology and Geophysics. All students are advised to examine their interests and future goals carefully to make appropriate program choices. Consultation with Riddell Faculty student advisors and/or department representatives is strongly encouraged.

Programs

Minors (optional or required) are part of degree programs - for program length, refer to the Years to Completion.

Degree/Diploma	Years to Completion	Total Credit Hours	Has Co-op Option
Earth Sciences, B.Sc. General (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/earth-sciences-bsc-general/)	3	90	
Earth Sciences Minor (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/earth-sciences-minor/)		18	
Environmental Geoscience, B.Sc. Honours (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/environmental-geoscience-bsc-honours/)	4	120	
Environmental Geoscience, B.Sc. Major (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/environmental-geoscience-bsc-major/)	4	120	
Environmental Science, B.Env.Sc. General (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/environmental-science-benvsc-general/)	3	90	
Environmental Science, B.Env.Sc. Honours (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/environmental-science-benvsc-honours/)	4	120	Yes

Environmental Science, B.Env.Sc. Major (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/environmental-science-benvsc-major/)	4	120	Yes
Environmental Science Minor (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/environmental-science-minor/)		18	
Environmental Studies, B.Env.St. General (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/environmental-studies-benvst-general/)	3	90	
Environmental Studies, B.Env.St. Honours (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/environmental-studies-benvst-honours/)	4	120	Yes
Environmental Studies, B.Env.St. Major (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/environmental-studies-benvst-major/)	4	120	Yes
Environmental Studies Minor (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/environmental-studies-benvst-minor/)		18	
Geography, B.A. Advanced (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/geography-ba-advanced/)	4	120	
Geography, B.A. General (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/geography-ba-general/)	3	90	
Geography, B.A. Honours (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/geography-ba-honours/)	4	120	

Geography Minor (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/geography-minor/)		18		
Geology, B.Sc. Honours (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/geology-bsc-honours/)	4	120		
Geology, B.Sc. Major (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/geology-bsc-major/)	4	120		
Geophysics, B.Sc. Honours (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/geophysics-bsc-honours/)	4	120		
Geophysics, B.Sc. Major (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/geophysics-bsc-major/)	4	120		
Physical Geography, B.Sc. Honours (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/physical-geography-bsc-honours/)	4	120	Yes	
Physical Geography, B.Sc. Major (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/physical-geography-bsc-major/)	4	120	Yes	
Physical Geography Minor (https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/physical-geography-minor/)		18		

Available Focus Areas and Streams

FOCUS AREAS (ENVIRONMENTAL STUDIES AND ENVIRONMENTAL SCIENCE)

Conservation & Biodiversity, Environmental Assessment, Environmental Health, Toxicology, Land Systems, Natural Resource Management, Northern Studies, Policy & Law, Stewardship, Sustainable Building, Sustainable Development, Water Resources, Wildlife Management, and Individualized Study.

STREAMS (PHYSICAL GEOGRAPHY)

Atmosphere and Hydrological Sciences, General Physical Geography, and Geomatics.

Units

- Earth Sciences (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/>)

- Environment and Geography (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/>)

Faculty Academic Regulations

Admission to the Clayton H. Riddell Faculty of Environment, Earth, and Resources

Admission information, rules, regulations and requirements are subject to change from year to year; those found in this publication are specific to the academic year for which it was written.

The following is a summary of the admission requirements. All admission requirements, as well as application deadline dates and forms, are included in the Clayton H. Riddell Faculty of Environment, Earth, and Resources Applicant Information Bulletin that is available from the Admissions

Office (<http://umanitoba.ca/student/admissions/>), 424 University Centre; this information is also posted on the University of Manitoba website.

Other than Direct Entry students, completion of a minimum of 24 credit hours of university level courses is required. Please refer to Admission from University 1 (p. 4) and Admission as a Special Student (p. 5)

Faculty admission is determined on the basis of a 2.00 Cumulative Grade Point Average on a minimum of 24 credit hours of course work from a recognized institution. Note: For students completing the Bachelor of Arts in Geography, entry is based on a Degree Standards Table. (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/geography-ba-general/#Degree-standard>)

Degree programs may define additional entrance requirements and students are referred to the appropriate section of this *Chapter* for further details as follows:

Bachelor of Arts in Geography Degree Regulations and Program Descriptions. (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/geography-ba-advanced/>)

Bachelor of Science in Physical Geography Degree Regulations and Program Descriptions. (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/physical-geography-bsc-honours/>)

Bachelor of Environmental Science (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/environmental-science-benvsc-major/>).

Bachelor of Environmental Studies Degree Regulations and Program Descriptions. (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/environmental-studies-benvst-honours/>)

Department of Earth Sciences: Bachelor of Science in Geology, Geophysics and Environmental Geoscience, and General Degree Regulations and Program Descriptions. (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/geological-sciences/>)

Students must apply to be considered eligible for admission to the Riddell Faculty. Application information is available from the Admissions Office, Enrolment Services, 424 University Centre. This information is also available in the Riddell Faculty Dean's Office, 440 Wallace Building, and is posted on the University's Admissions website (<https://umanitoba.ca/admissions/>).

Direct Entry from Highschool

Eligible students may apply to enter the Clayton H. Riddell Faculty of Environment, Earth, and Resources upon completion of a high school diploma. Eligible students must meet the criteria listed in the Direct Entry Programs Bulletin.

For the most current admission requirements, refer to the Direct Entry Programs Bulletin (https://umanitoba.ca/explore/sites/explore/files/2020-11/direct_entry_bulletin.pdf)

Admission from University 1

University 1 students are encouraged to apply for admission to a degree program in the Clayton H. Riddell Faculty of Environment, Earth, and Resources once they have completed 24 credit hours of course work and have met the minimum entrance requirements of their intended degree program.

Admission as a Transfer Student

Students applying for admission from other recognized universities or colleges are called 'transfer students'. For the University of Manitoba's general policy on transfer of credit and advanced standing, refer to the Admissions website. (<https://umanitoba.ca/admissions/>)

To be eligible for admission to the Clayton H. Riddell Faculty of Environment, Earth, and Resources, transfer students must have completed no fewer than 24 credit hours of university level course work and satisfied the minimum performance requirements of the intended degree program. Transfer students who have completed less than 24 credit hours must register in University 1 (<https://catalog.umanitoba.ca/undergraduate-studies/university-1/>) or Extended Education (<https://catalog.umanitoba.ca/undergraduate-studies/extended-education/>) to complete the required credit hours of course work. Students with more than 24 credit hours who are not admissible to the Riddell Faculty should consider applying to Extended Education (<https://catalog.umanitoba.ca/undergraduate-studies/extended-education/>) as their alternative choice.

Students on academic suspension as a result of work completed at another post-secondary institution or another Faculty will not normally be considered for admission to the Clayton H. Riddell Faculty of Environment, Earth, and Resources until the suspension has been served.

Transfer of Credit

The University of Manitoba assesses transfer credit as a part of the application process. Assessment of prior course work for admissions or transfer credit will only take place after an application has been submitted. The University of Manitoba transfer credit equivalencies database (<https://umanitoba.ca/admissions/undergraduate/requirements/transfer-credit/>) is now available as a reference tool to look up current course assessments. Please take note of the guidelines outlined on the database access page as these course assessments are subject to change.

See the Admissions section (<https://catalog.umanitoba.ca/undergraduate-studies/admissions/>) of the Calendar. Courses completed at an external institution ten years prior to registration in the Clayton H. Riddell Faculty of Environment, Earth, and Resources are not considered for transfer of credit. Students should contact a Riddell Faculty student advisor (Riddell.Advisor@umanitoba.ca) regarding transfer credit.

University College of the North and the University of Manitoba Articulation Agreement NRM Technology Diploma (UCN)/ Bachelor of Environmental Science (U of M)

Graduates of the 2 Year Natural Resource Management Technology Diploma from University College of the North may apply for admission into the Bachelor of Environmental Science program in the Clayton H. Riddell Faculty of Environment, Earth, and Resources at the University of Manitoba. Successful applicants will be granted 60 credit hours on admission towards the completion of the 120 credit hour Bachelor of Environmental Science degree.

Students should contact a Riddell Faculty student advisor regarding more information.

Admission as a Visiting Student

Visiting students may apply for admission to the Clayton H. Riddell Faculty of Environment, Earth, and Resources on the basis of a Letter of Permission (<https://umanitoba.ca/registrar/letter-permission/>) from the Registrar or appropriate Dean of her/his home institution. Certain restrictions may be placed on the kind and number of courses in which a student will be allowed to register. Visiting students may wish to contact a Riddell Faculty student advisor (<https://umanitoba.ca/environment-earth-resources/student-experience/#support-for-students>) in the Faculty Dean's Office for further information.

Admission as a Second Degree Student

Students possessing a first degree from a recognized university program with a minimum Cumulative Grade Point Average of 2.00 on their first degree may be eligible for admission as a Second Degree student provided they have completed the minimum coursework entrance requirements for their intended degree program.

Second Degree requirements may be shortened by up to 60 credit hours and, once admitted, students will be expected to satisfy all continuation and graduation requirements in the degree program. Second Degree students are not required to satisfy the University Written English and Mathematics requirement. See a Riddell Faculty student advisor for specific information on degree requirements following completion of the first degree.

Admission as a Special Student (After Degree Students)

After Degree Special Student

Students who have successfully completed a first degree from a recognized university program with a cumulative Grade Point Average of 2.00 or better are eligible for admission as Special Students.

Prospective applicants who hold a previously completed degree may enroll in degree credit courses in the Faculty as a Special Student provided that they are not at the time interested in pursuing a degree. As noted in the university admission requirements (<https://umanitoba.ca/admissions/undergraduate/requirements/>), such courses may subsequently be accepted as credit towards a degree, diploma or certificate at the discretion of program deans or directors.

Auditing Students

Students who wish to audit courses must have written permission from the instructor of the desired course before they can register. Auditing students must register in-person in their Faculty of registration. The Clayton H. Riddell Faculty of Environment, Earth, and Resources prohibits auditors from registering in courses until after the initial access period.

Degree Regulations and Services Applicable to all Programs in the Clayton H. Riddell Faculty of Environment, Earth, and Resources

Courses Offered in Other Faculties and Schools Acceptable for Credit in the Clayton H. Riddell Faculty of Environment, Earth, and Resources

Students who are registered in the Clayton H. Riddell Faculty of Environment, Earth, and Resources may take any course offered by another faculty or school for credit towards their degree, subject to permission from the department head (or designate) and/or a Riddell Faculty student advisor.

Available Minors in Departments and Faculties

Students in the B.A. Geography (Honours), Bachelor of Environmental Science, Bachelor of Environmental Studies, Bachelor of Science in Geology, Geophysics and Environmental Geoscience, and Bachelor of Science in Physical Geography degree programs may, if they wish, declare and complete a Minor from departments and interdisciplinary programs in which a Minor is offered. Students registered in the B.A. Geography (General; Advanced) and B.Sc. Earth Sciences (General) are required to complete a Minor prior to graduation. Students may not, however, declare both their Major and Minor from the same subject area. For example: a student in B.A. Geography program may not declare a minor in physical geography; a student in Environmental Science program may not declare a minor in Environmental Studies, etc.. Students can declare only one minor. For specific requirements to complete a Minor, please refer to the relevant Faculty/School's chapter in the Academic Calendar.

It should be noted that for Honours students any consideration of completing a Minor should be made early due to restricted opportunities in later years in their programs.

A Minor will normally consist of at least 18 credit hours, with a minimum of 12 credit hours being at the 2000-, 3000-, and 4000-levels (although there are some exceptions). Courses required in a student's specific degree program are acceptable for use in a chosen Minor, subject to the Riddell Faculty regulation stating that students may not declare both their Major and Minor from the same department or interdisciplinary program.

Students planning to enrol in the I.H. Asper School of Business [Management Minor] must consult a Riddell Faculty student advisor as enrolment in these minor programs is limited. *The Management Minor consists of any 18 credit hours in courses offered by the Asper School of Business.*

University Written English and Mathematics Requirement

Students are required to complete the University Written English and Mathematics requirement within their first 60 credit hours as outlined in the General Academic Regulations, Residence and Written English and Mathematics Requirements. (<https://catalog.umanitoba.ca/undergraduate-studies/general-academic-regulations/#Residence-Written-English>)

A list of all courses that satisfy the Written English and Mathematics requirements can be found in Approved English and Mathematics Courses (<https://catalog.umanitoba.ca/undergraduate-studies/general-academic-regulations/#Residence-Written-English>). Course numbers of designated written English courses are marked with a 'W' and designated Mathematics courses are marked with an 'M'.

Students may wish to consider GEOG 2900W, ENVR 2810W, GEOL 3130W, and/or GEOG 3810M to satisfy these requirements. In addition, the Department of Environment and Geography offers several courses annually through Distance Education that satisfy the 'W' requirement.

Science and Faculty of Arts Course Requirements

Students are required to take 6 credit hours from the Faculty of Arts and 6 credit hours of science coursework.

For course subjects taught by the Faculty of Arts refer to the Faculty of Arts (<https://catalog.umanitoba.ca/undergraduate-studies/arts/#programstext>) for a complete listing.

Students may complete any combination of the courses listed below adding up to six credit hours to satisfy the 6 credit hours science requirement.

Clayton H. Riddell Faculty of Environment, Earth, and Resources

Course	Title	Hours
ENVR 1000	Environmental Science 1 - Concepts	3
ENVR 2000	Environmental Science 2 - Issues	3
GEOG 1290	Introduction to Physical Geography	3
GEOG 1291	Introduction à la géographie physique	3
GEOG 2200	Introduction to Thematic Cartography (TS)	3
GEOG 2272	Natural Hazards (PS)	3
GEOG 2520	Geography of Natural Resources (HS)	3
GEOG 2540	Weather and Climate (PS)	3
GEOG 2541	Météorologie et climatologie (PS)	3
GEOG 2550	Geomorphology (PS)	3
GEOG 2551	Géomorphologie (PS)	3
GEOG 2700	Introduction to Arctic System Science	3
GEOG 2930	Introduction to Oceanography	3
GEOG 3390	Introduction to Climate Change and Its Causes (PS)	3
GEOG 3730	Geographic Information Systems (TS)	3
GEOL 1340	The Dynamic Earth	3
GEOL 1400	Time-Trekker's Travelog: Our Evolving Earth	3
GEOL 1410	Natural Disasters and Global Change	3
GEOL 1420	Exploring the Planets	3
GEOL 2350	Canada Rocks: The Geology of Canada	3
GEOL 2390	Environmental Geology	3
GEOL 2440	Structural Geology 1	3
GEOL 2500	Introduction to Mineralogy	3
GEOL 2570	Energy and Mineral Resources	3

Faculty of Science

All courses offered by the Faculty of Science.

Faculty of Agricultural and Food Sciences

Course	Title	Hours
AGRI 1600	Introduction to Agrifood Systems	3
ENTM 1000	World of Bugs	3
ENTM 2050	Introductory Entomology	3
PLNT 1000	Urban Agriculture	3
PLNT 2500	Crop Production	3
SOIL 3060	Introduction to Agrometeorology	3
SOIL 3520	Pesticides: Environment, Economics and Ethics	3
SOIL 3600	Soils and Landscapes in Our Environment	3

For course titles and descriptions see the relevant faculty entries in this Calendar.

Changes in Program Requirements

Once students have successfully completed any portion of a degree program, they will not be required to meet new course requirements subsequently stipulated for that portion of the program, whether the requirements be for the Faculty or for an individual degree program. Students are required to complete their program in its entirety as outlined

in the Calendar effective upon the point of admission to the Faculty and program.

Prerequisite and Corequisite Courses

Prerequisite

Minimum grades of "C" are required in all courses listed as prerequisites, except as otherwise noted in the course descriptions published in each department and program section of this chapter. If a course is a prerequisite for a second course, the prerequisite must be met in order to continue in the second course.

Some course descriptions will indicate that a specific course is a pre- or corequisite for the course in which you wish to register. If you have not previously taken the specific course, you may register for it in the same term.

Corequisite

Where a course identifies another course as a corequisite, both courses must be taken at the same time.

Course Availability

All courses listed in this Calendar are not offered every year. Students are referred to the Class Schedule (http://aurora.umanitoba.ca/banprod/bwckschd.p_disp_dyn_sched/) for current information.

The Department of Environment and Geography offers numerous courses under the following course numbers: GEOG 3770, GEOG 4670, GEOG 3740, GEOG 3750, GEOG 3760, ENVR 2010, ENVR 2020, ENVR 3000, ENVR 3010, ENVR 3020, ENVR 4000, ENVR 4010, and ENVR 4020.

The Department of Earth Sciences offers a course under the following course number: GEOL 4270. Students are referred to the Class Schedule (http://aurora.umanitoba.ca/banprod/bwckschd.p_disp_dyn_sched/) for current information.

Repeated Courses and Attempted Credit Hours

Clayton H. Riddell Faculty of Environment, Earth, and Resources students are subject to the University of Manitoba regulations, General Academic Regulations, Academic Evaluation, Repeating a Course (<https://catalog.umanitoba.ca/undergraduate-studies/general-academic-regulations/#Repeating-a-course>) and the Riddell Faculty degree regulations regarding eligibility to repeat a course. Repeating a course will not result in the removal of the first attempt and grade in that course from the student's record. The course will appear on the transcript as many times as it has been repeated. When a course has been repeated or an equivalent course is taken, only the attempt in which the highest grade was achieved shall be counted towards a student's degree. Grades from all course completions will be used in the calculation of the DGPA, TGPA and CGPA.

There is no limit to the number of credit hours permitted in the degree programs in the Faculty provided a student does not exceed the credit hour limit of failed courses stated for specific programs.

Limited Access will not affect registration for the current Academic Year, which includes Fall, Winter, and Summer terms. See University Policy and Procedures – Repeat Course Policy – Section 2.5 (a) Limited Access (<https://catalog.umanitoba.ca/undergraduate-studies/policies-procedures/repeated-course-policy/>).

Effective 2018 Winter Term - Limited Access in Effect

Limited Access is a registration rule that allows students who have never before completed, or voluntarily withdrawn, from a course (or its equivalent) the opportunity to register for the course before students who are repeating or have previously withdrawn from the course.

If a student has previously taken a course and received a final grade, or voluntarily withdrawn from the course (VW)¹, any future attempt to take that course or its equivalent is considered a repeated course.

Effective Winter 2018, Limited Access will prevent a student from registering or placing themselves on the waitlist for a course (or equivalent) being repeated until the "Limited Access Term Expiry Date" has passed.

Limited Access applies for three consecutive terms following the term that the course in question was last completed or voluntarily withdrawn (VW).

During these three terms of Limited Access, a student may register to repeat a course, without permission, only when the Limited Access Term Expiry Date has passed.

Once the three terms of Limited Access has expired, any student wishing to repeat a course must request permission to do so from the Riddell Faculty Dean's Office prior to registration in order to register or place themselves on the waitlist for a course prior to the "Limited Access Term Expiry Date".

¹ A previous VW is only considered a repeat if the student voluntarily withdrew in Winter 2017 or later.

Voluntary Withdrawals

The responsibility for initiating withdrawals rests solely with the student. When eligible to do so, Voluntary Withdrawals must be done through Aurora Student. No withdrawals will be permitted after the deadlines posted in the Academic Schedule (<https://catalog.umanitoba.ca/undergraduate-studies/academic-schedule/>).

There is currently no limit on the number of Voluntary Withdrawal hours a student can accumulate.

Authorized Withdrawals

Students who have valid and documented reasons for withdrawal, such as medical illness or compassionate circumstances, may be authorized to withdraw without penalty. Requests for authorized withdrawals must be submitted in writing to a Riddell Faculty student advisor (Riddell.advisor@umanitoba.ca). The Office of Student Advocacy located at 520 University Centre (204 474-7423, or email (student_advocacy@umanitoba.ca)) is available to provide information and assistance.

Residence Requirement

Students are required to complete a minimum number of credit hours at the University of Manitoba. Students should refer to their degree program for further information:

- Bachelor of Arts in Geography Degree Regulations and Program Description and Courses (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/geography-ba-general/>)
- Bachelor of Science in Physical Geography Degree Regulations and Program Description and Courses (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/physical-geography-bsc-honours/>)
- Bachelor of Environmental Science (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/environmental-science-benvsc-honours/>)
- Bachelor of Environmental Studies Degree Regulations and Program Descriptions and Courses (<https://catalog.umanitoba.ca/>)

[undergraduate-studies/environment-earth-resources/environment-geography/environmental-studies-benvst-honours/](https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/environmental-studies-benvst-honours/))

- Department of Earth Sciences: Bachelor of Science in Geology (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/geology-bsc-major/>)
- Department of Earth Sciences: Geophysics (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/geophysics-bsc-major/>)
- Department of Earth Sciences: Environmental Geoscience (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/environmental-geoscience-bsc-major/>)
- General Degree Regulations and Program Descriptions and Courses (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/earth-sciences-bsc-general/>)

The courses used to satisfy the residence requirement must be acceptable for credit by the degree program in the Clayton H. Riddell Faculty of Environment, Earth, and Resources. Residence requirements apply to both first and second degree students.

Letter of Permission to Take Courses at Another University

Students wishing to complete courses at another institution for credit at this university must obtain written permission (Letter of Permission (http://umanitoba.ca/student/records/leave_return/lop.htm)) from the Registrar's Office prior to registering at the other institution or no credit will be permitted. Any earned grades are transferred and form part of the degree Grade Point Average, when applicable. Students who register for courses elsewhere without a Letter of Permission must reapply to the Faculty.

Students who are on academic suspension may not elect courses at another institution for credit toward an Environment, Earth, and Resources degree at this university.

Attendance at Other Institutions

Students who attend other post-secondary institutions without a Letter of Permission must reapply for admission to the Faculty before the application deadline and be academically competitive for admission. Similarly, students registered in the Clayton H. Riddell Faculty of Environment, Earth, and Resources may not be registered at another academic institution at the same time unless they are registered elsewhere on a Letter of Permission. The penalty for unauthorized or undisclosed attendance may be disciplinary withdrawal or academic suspension.

Dean's Honour List

A student's eligibility for the Dean's Honour List designation is evaluated after each term.

Students enrolled in a minimum of 12 credit hours of course work during a term and who achieve a term Grade Point Average of 3.50 or higher will be placed on the Dean's Honour List. The Dean's Honour List designation will appear on the student's transcript.

Academic Warning, Probation, Academic Suspension and Special Students (Academic Standing)

Students shall be evaluated after each academic term in which they receive a final grade in a minimum of 4 credit hours, with the assessment being based on the resulting Degree Grade Point Average (DGPA). This assessment will determine a student's academic standing to be: faculty minimum met, academic warning, on probation, suspension warning, or academic suspension.

Degree Grade Point Average (DGPA)

The Degree Grade Point Average (DGPA) is computed from the final grades obtained in all courses attempted that are part of the degree requirements, including applicable courses transferred from other faculties and institutions. Where a course has been repeated or replaced by an approved substitution or equivalent course, all attempts shall be included in the computation.

Faculty Minimum Met

To be in good standing, a student must achieve a 2.00 Degree Grade Point Average at each point of assessment and the notation 'Faculty Minimum Met' will be recorded on the student's transcript. Note: For students completing the Bachelor of Arts in Geography, Faculty Minimum Met is based on a Degree Standards Table (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/geography-ba-general/#Degree-standard>).

Degree programs may define additional performance requirements for continuation and graduation. Students should refer to the appropriate section for further details as follows:

- Bachelor of Arts in Geography. (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/geography-ba-general/>)
- Bachelor of Science in Physical Geography. (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/physical-geography-bsc-honours/>)
- Bachelor of Environmental Science (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/environmental-science-benvsc-honours/>) and Bachelor of Environmental Studies. (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/environment-geography/environmental-studies-benvst-honours/>)
- Bachelor of Science in Geology - Major (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/geology-bsc-major/>)
- Bachelor of Science in Geophysics - Major (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/geophysics-bsc-major/>)
- Bachelor of Science in Environmental Geoscience - Major (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/environmental-geoscience-bsc-major/>)
- Bachelor of Science in Geology - Honours (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/geology-bsc-honours/>)
- Bachelor of Science in Geophysics - Honours (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/geophysics-bsc-honours/>)
- Bachelor of Science in Environmental Geoscience - Honours (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/environmental-geoscience-bsc-honours/>)
- Bachelor of Science in Earth Sciences - General (<https://catalog.umanitoba.ca/undergraduate-studies/environment-earth-resources/earth-sciences/earth-sciences-bsc-general/>)

Academic Warning

Students will receive an academic warning if, at the point of assessment following a term, s/he fails to achieve the required minimum performance level. The notation 'Academic Warning' will be recorded on the student's transcript.

On Probation

Those who fail to meet the required minimum performance level following an Academic Warning assessment will be placed **on probation**. The notation 'On Probation' will be recorded on the student's transcript.

Suspension Warning

Those who fail to meet the required minimum performance level following an On Probation assessment will be placed on **Suspension Warning**. The notation, 'Suspension Warning' will be recorded on the student's transcript.

Academic Suspension

Those who fail to meet the required minimum performance level following a Suspension Warning assessment will be placed on **Academic Suspension for One Year**. The notation, 'Academic Suspension for One Year' will be recorded on the student's transcript. A student placed on academic suspension is not allowed to register in the Clayton H. Riddell Faculty of Environment, Earth, and Resources during the duration of the suspension.

A student will be placed on **academic suspension for two years** under the following circumstances:

- Upon return from one year suspension, the student fails to attain a 2.00 degree grade point average in the following two terms after the probationary assessment (see a Riddell Faculty student advisor (<https://umanitoba.ca/environment-earth-resources/student-experience/#support-for-students>) for information).
- The Faculty calculates that it is mathematically impossible for the student to clear his/her probationary standing by the following assessment period.
- The student exceeds the maximum number of credit hours of failed courses.

The notation, 'Academic Suspension for Two Years', will be recorded on the student's transcript of marks. Those serving two-year suspensions are required to start the degree afresh should they choose to return to the Clayton H. Riddell Faculty of Environment, Earth, and Resources. Students may appeal for transfer of credit up to 30 credit hours in courses in which a minimum grade of 'C' was achieved.

Students should consult with a Riddell Faculty student advisor (<https://umanitoba.ca/environment-earth-resources/student-experience/#support-for-students>) for further assistance in clearing their academic warning, on probation, suspension warning, or academic suspension academic standing.

Special Students

Special students that have successfully completed at least 15 credit hours of course work in the Riddell Faculty will be notified by mail / email that given the extent of their studies to date, they are strongly encouraged to consider application to a degree, diploma or certificate program, perhaps through Extended Education or as a Second Degree Student.

- If 6 or more credit hours of coursework in the first 15 are failed course attempts (grades of F or D) students will receive notice by mail / email encouraging them to seek guidance from the Academic Learning Centre and /or from Riddell Faculty student advisors.

Special students that have earned (includes earning F grades) 30 credit hours of course work in the Riddell Faculty will be notified by mail / email that given the extent of their studies that they must either transfer into a degree, diploma or certificate program, or should they wish to continue

their studies as non-degree students, to enroll with Extended Education. **Special Student status will not be granted by the Riddell Faculty past the 30 credit hour level.**

Academic Misconduct

Academic misconduct is intentional cheating, fabrication, impersonation, or plagiarism. It is also knowingly helping or attempting to help others to be dishonest. Academic dishonesty lowers scholastic quality and defrauds others who will eventually depend on their own knowledge and integrity.

Plagiarism or any other form of cheating on examinations, term tests, or assignments is subject to academic penalty as serious as suspension or expulsion from the Faculty or University.

Students who are unsure of what constitutes academic misconduct should refer to the regulations in the General Academic Regulations, Academic Integrity (<https://catalog.umanitoba.ca/undergraduate-studies/general-academic-regulations/#Academic-Integrity>) and consult with your professor or instructor.

Termwork and Debarment

A student is responsible for the completion of laboratory work, assignments, tests and other class work as prescribed by the course syllabus. A student who does not meet termwork requirements to the satisfaction of the Associate Dean (Academic) will receive a warning to this effect. If this warning is ignored, a student may be debarred from the course. Any student debarred from a course receives an automatic grade of 'F' in that course.

Deferred (missed) Examinations

A student who is unable to write a final examination because of illness or other incapacity or compassionate reasons should contact a student advisor in the Clayton H. Riddell Faculty of Environment, Earth, and Resources. The appropriate documentation (i.e. a medical certificate or otherwise appropriate documentation certifying the reason for the missed exam) will be required. Students are reminded to contact their home faculty (and not the faculty through which the course is offered). Please see the missed exam information (<https://umanitoba.ca/environment-earth-resources/student-experience/#support-for-students>) on the faculty website. For information on Incomplete Coursework, Deferred Examinations, Debarment, Academic Dishonesty, etc., refer to the General Academic Regulations (<https://catalog.umanitoba.ca/undergraduate-studies/general-academic-regulations/>).

A complete copy of the Deferred and Supplemental Examinations Procedures can be found in the University Policies and Procedures (<https://catalog.umanitoba.ca/undergraduate-studies/policies-procedures/final-examinations-grades-policy/>).

It should in particular be noted that there are no Supplemental Examinations in the Clayton H. Riddell Faculty of Environment, Earth, and Resources.

Challenge for Credit

Some departments at the University of Manitoba offer courses by means of challenge of credit. Since the courses offered in this manner may vary from year to year, any student wishing to challenge a course for credit should contact a Riddell Faculty student advisor (<https://umanitoba.ca/environment-earth-resources/student-experience/#support-for-students>) in the Clayton H. Riddell Faculty of Environment, Earth, and Resources general office. The Academic Schedule (<https://catalog.umanitoba.ca/undergraduate-studies/academic-schedule/>) of this Calendar contains

the relevant registration deadline dates appropriate to challenge for credit.

Appeals Involving Academic Regulations

The Student Appeals and Discipline Committee in the Faculty considers appeals from students who request special consideration with respect to the rules and regulations governing their degree program and qualifications for graduation.

Appeals should be addressed to: Student Advisor, Secretary Student Appeals and Discipline Committee, General Office, Clayton H. Riddell Faculty of Environment, Earth, and Resources, 440 Wallace Building.

Riddell Faculty Student Advisor Office Hours

Monday through Friday: 9:00 a.m. to 4:00 p.m.

Email: Riddell.Advisor@umanitoba.ca (Riddell.Advisor@umanitoba.ca) (Riddell.Advisor@umanitoba.ca)

Students may schedule an appointment with an Academic Advisor (<https://umanitoba.ca/environment-earth-resources/student-experience/#support-for-students>) here.

Student Responsibility & Application to Graduate

It is your responsibility to be familiar with the regulations, courses, and graduation requirements of your degree program. You are advised to review the appropriate sections of this Calendar carefully when selecting your courses to ensure compliance with degree program requirements. If you are not sure of how regulations and requirements apply to your case, please consult a Riddell Faculty student advisor (<https://umanitoba.ca/environment-earth-resources/student-experience/#support-for-students>). Since a complete graduation check is not done until you have declared your intention to graduate, you are encouraged to make an appointment with a Riddell Faculty student advisor (<https://umanitoba.ca/environment-earth-resources/student-experience/#support-for-students>) prior to your initial registration access date to confirm you are meeting the degree requirements. Ultimately you are responsible to ensure compliance with degree program requirements.

Every candidate for a degree must make a formal application at the beginning of the term in which they expect to complete graduation requirements, before the last date of the registration revision period.

Undergraduate students need to declare their intent to graduate.

This can be done on-line through Aurora. (Log into Aurora, select "Enrolment and Academic Records", select "Declarations", and follow the instructions. If the date you wish to graduate does not appear, you will need to contact a Student Advisor in the Dean's Office, 440 Wallace, for assistance.; you may have missed the online application deadline)

Note: While we welcome the opportunity to assist you, it is important for you to realize that it is your responsibility to be familiar with university and Riddell Faculty academic regulations and registration procedures as they are described in this calendar.

Maximum Number of Courses During a Term

You may attempt a maximum of 15 credit hours in any one term unless otherwise stipulated by your program. If you wish to exceed the normal load you may apply in-person at the Faculty Dean's Office, or complete the Application to Exceed Credit Hours (http://umanitoba.ca/faculties/environment/media/App_exceed_chrs.pdf) form available on the Riddell Faculty web page (<https://umanitoba.ca/environment/>).

Time Away from the Clayton H. Riddell Faculty of Environment, Earth, and Resources

Have you been away for a While?

Have you attended any other post-secondary institution or another Faculty at the U of M since your last registration in the Riddell Faculty?

If your answer to the above question is **no**, then you follow these procedures:

Former Riddell Faculty students that have not registered in courses for more than one calendar year and have not attended any other post-secondary institution or faculty at the University of Manitoba will contact a Riddell Faculty student advisor to complete and submit the Request for Permission to Re-Register form to have their record reactivated.

Former Riddell Faculty students previously placed on academic suspension may not re-register until they have served their term of suspension. Upon completion of their suspension, students must contact a Riddell Faculty student advisor in order to have their records updated and activated.

If you answered **yes** to the above question and you have attended another post-secondary institution or another Faculty at the U of M since your last registration in the Riddell Faculty, you follow these procedures:

Students who have registered in another Faculty or School at the University of Manitoba since their last registration in the Riddell Faculty must apply through the Admissions Office in accordance with the application deadlines and be readmitted before they are eligible to register in the Riddell Faculty again.

Students who have attended another university or institution since their last registration in the Riddell Faculty must apply through the Admissions Office in accordance with the application deadlines and be readmitted before they are eligible to register in the Riddell Faculty again.

- This does not apply to Riddell students who have taken courses at another university or college on the basis of a Letter of Permission granted by this university.

Admitted to the Riddell Faculty - but Never Registered

Students previously admitted to the Riddell Faculty that did not register in the Riddell Faculty in the term of admission must re-apply to the Riddell Faculty if they wish to register as a student in the Riddell Faculty.

Cooperative Education Option

A Cooperative Education Option (<https://umanitoba.ca/environment-earth-resources/student-experience/#learning-outside-the-classroom>) is available to students registered in either the Major or Honours degree programs in Environmental Science, Environmental Studies, or Physical Geography. Coop is an arrangement whereby students spend alternating periods in university and employment. There are several advantages to a cooperative education program for students. One benefit is that students are able to acquire both theoretical knowledge and practical experience. This experience assists them in selecting areas of specialization for their senior courses in their chosen Focus Area or Stream. As well, Coop assists students in their professional development by enhancing networking opportunities, participation in conferences and workshops and provides the foundation of skills and strategies required in searching and acquiring employment after graduation. Students can also defray some of the costs of their university education through these work term placements. Further information about Cooperative Education and student eligibility is available from the Coop Placement Coordinator

(<https://umanitoba.ca/faculties/environment/undergraduate/coop/contact.html>) available in the Faculty general office.

Students electing to participate in the Cooperative Education Option will be assessed a program fee with their formal admission into the program. Once a student has accepted a position with a Coop employer, no portion of the program fee will normally be refunded.

The Cooperative Education Option consists of two employment work terms, each over a minimum period of four months, and contributes 6 credit hours towards the four year degree program. Students complete ENVR 2900, ENVR 3900, work term placements ENVR 3980, ENVR 3990, and the work term report courses ENVR 3910 and ENVR 3920. Additional work terms are available to interested students. Each academic term and each employment term commence in January, May or September. While on an employment term, a Cooperative Education Option student is not permitted to take more than three additional credit hours of academic work outside of the requirements of the Coop placement without permission of a Riddell Faculty student advisor.

Students are required to register in the appropriate Coop courses and pay course fees prior to beginning their placement.

For more information, please visit the Riddell Faculty Co-operative Education Program (<http://umanitoba.ca/faculties/environment/undergraduate/coop/>) webpage