

## BSc ENVIRONMENTAL SCIENCE OR BSc ENVIRONMENTAL MANAGEMENT

ROYAL ROADS UNIVERSITY  
SCHOOL OF ENVIRONMENT AND SUSTAINABILITY

UPDATED FEBRUARY 2012

This Academic Planning Guide highlights major points only regarding admission and transfer. Students are advised to read the university and RDC calendars and the Alberta Transfer Guide for other necessary information. Some courses listed may have prerequisites; refer to [Course Descriptions](#). Access this guide online: [www.rdc.ab.ca/academic\\_advising](http://www.rdc.ab.ca/academic_advising).

Royal Roads University (RRU) in Victoria, British Columbia offers two innovative Bachelor of Science degree completion programs that give students the scientific underpinning essential to problem solving and the skills that can be applied immediately in the workplace. The BSc environmental programs produce graduates who are capable decision-makers on issues of environmental concern in government or industry. The focus is on environmental science as an inter-disciplinary challenge, examining past and current practices as well as new and emerging options.

The **BSc Environmental Science (BSc-ES)** program is a one-year degree completion program that emphasizes a range of factors – from policy and science to ethics and the law – in answering environmental challenges. It is an intensive 12-month program that allows students with at least two years of post-secondary education to complete an interdisciplinary environmental science bachelor's degree in one year (equivalent to a 4-year degree). The 50-seat program begins each September when successful applicants join a small cohort of students with whom they will work throughout the year.

BSc-ES graduates have a broad range of technical, communication, analytical, and interpersonal skills, together with a firm grounding in Environmental Sciences. These skill sets have been defined as requirements for employment in the environmental sector.

The **BSc Environmental Management (BSc-EM)** two-year online degree completion program focuses on business, leadership, and management skills, as well as science. There is a bi-annual intake in April for this 25-month program. Three intensive 3-week residencies are blended with online learning. This scenario allows students to live where they wish and continue working while completing the degree. The blended delivery model is an attractive alternative for those who cannot commit to the 12– month fulltime BSc-ES option. This program is intended for those who wish to pursue or advance their career as an environmental professional.

### PREREQUISITE COURSES FOR BSC ENVIRONMENTAL SCIENCE OR BSC ENVIRONMENTAL MANAGEMENT

*A grade of B (3.00/4.00) or higher must be earned in each prerequisite course.*

REQUIRED COURSE WORK	CREDITS	COURSES TAKEN AT RED DEER COLLEGE
Chemistry	6	CHEM 211 + CHEM 212 or CHEM 351
Mathematics or Physics, with at least one course in Calculus or Linear Algebra	6	<b>Calculus:</b> MATH 202 or 203, 204; <b>Linear Algebra:</b> MATH 221; <b>Physics:</b> PHYS 205, 226, 241, 247
Biology	6	BIOL 217, 218, 301, 317, 318
English &/or Communications	6	ENGL 219, 220, COMM 271, 361

The eight prerequisite courses required for admission to BSc Environmental Science or BSc Environmental Management may fit into another degree program (i.e. most Bachelor of Arts, Bachelor of Commerce, Bachelor of Education, or Bachelor of Science programs transferable to the Universities of Alberta, Calgary or Lethbridge).

### SUGGESTED PATTERN OF COURSES

YEAR 1 FALL TERM	YEAR 1 WINTER TERM
ENGL 219, COMM 271 or 361 (3)	ENGL 219, 220, COMM 271 or 361 (3)
BIOL 218 or 217 (3)	BIOL 217, 218, 317 or 318 (3)
CHEM 211 (3)	CHEM 212 or 351 (3)
2 OPTIONS <sup>1-3</sup> _____(3) _____ (3)	2 OPTIONS <sup>1-3</sup> _____(3) _____ (3)

YEAR 2 FALL TERM	YEAR 2 WINTER TERM
MATH or PHYS (3) <sup>4</sup>	MATH or PHYS (3) <sup>4</sup>
4 OPTIONS <sup>1-3</sup> _____(3) _____ (3) _____ (3) _____ (3)	4 OPTIONS <sup>1-3</sup> _____(3) _____ (3) _____ (3) _____ (3)

#### NOTES:

1. Twenty-four of the 60 credits required for admission are taken in prerequisite course work; you will take the remaining 36 credits to fulfil Options. Choose course work that will prepare you for the program at Royal Roads University. RRU recommends additional course work in Inorganic and Organic Chemistry, Ecology, Microbiology, Calculus, and Linear Algebra. For more information, visit [Environment and Sustainability](#).
2. Choose Option courses from *university transferable* courses in: ACCT, ANTH, ART, ASTR, BADM, BIOC, BIOL, BUS, CHEM, CLAS, CMPT, COMM, DRAM, ECON, ENGL, FAM, FILM, FREN, GENE, GEOG, HIST, INTD, KDNC, KNSS, MATH, MICR, MUSI, PHIL, PHYS, POLI, PSIO, PSYC, SOCI, SPAN, ZOOL. Students who do not have a solid working knowledge of computers are strongly advised to take CMPT 261 in preparation for the program at RRU.
3. The Alberta Transfer Guide governs course credit transfer within the province of Alberta. Choose courses that show transfer to UofA or UofC to ensure the options you choose are at a post-secondary level.
4. Students with a grade of 70% or higher in Math 31 are advised to take MATH 203 instead of 202. PHYS 204 and 241 are offered in the fall term only.

### ADMISSION AND TRANSFER INFORMATION

1. In 2006, the School of Environment and Sustainability at Royal Roads University and the Sciences Department at Red Deer College signed a Memorandum of Understanding concerning block transfer of credit into 3<sup>rd</sup> year BSc in Environmental Science programs at RRU. For complete details, please see Royal Roads University website.
2. [Admission](#) is based on the criteria listed below:
  - At least 60 credits (including 24 credits in prerequisite courses)
  - Overall GPA of B (3.00/4.00)
  - Two letters of reference
  - Detailed resume
  - Personal statement
3. Flexible admission is available for students who may be missing certain academic prerequisites but who have significant, relevant work experience. For more information see [Flexible Admission](#).
4. Admission to all programs at RRU is competitive. Obtaining the minimum GPA does not guarantee admission.
5. RRU admits students using a philosophy that differs from many other universities. While an overall GPA of B is an admission requirement, each applicant presents his or her motivation for seeking education in the discipline, his or her

work experience and/or community service, and the opinions of two referees (work experience, community service, academic performance) confirming him or her as a suitable candidate for the BSc Environmental program.

6. Applicants whose first language is not English must submit an acceptable TOEFL score, or alternative.
7. A passing grade received at any post-secondary institution will be used for credit transfer. If a course is repeated, the highest grade will be used in calculation of the GPA.
8. A maximum of two years of transfer credit (\*60) completed outside Royal Roads University will be granted.
9. Applicants who have been Required to Withdraw from any post-secondary institution or program will be considered for admission with a GPA of *B* on their most recent 60 credits.
10. **Application and document deadlines:** see <http://www.royalroads.ca>.

#### **ALL STUDENTS ARE STRONGLY ADVISED TO:**

1. consult [Course Descriptions](#) for any prerequisites or co-requisites for courses taken, and
2. read admission and program requirements in the *Royal Roads University Calendar* and website.

## **HOW TO FIND MORE INFORMATION**

### [Science Department](#)

Warren Elgersma, Chairperson  
Office: 1607-E 403-343-4052  
[warren.elgersma@rdc.ab.ca](mailto:warren.elgersma@rdc.ab.ca)  
[http://www.rdc.ab.ca/about\\_rdc/academic\\_departments/sciences](http://www.rdc.ab.ca/about_rdc/academic_departments/sciences)

### [Academic Advising](#)

Academic Advising Centre: Room 1102  
[advisors@rdc.ab.ca](mailto:advisors@rdc.ab.ca) 403-342-3400  
[http://www.rdc.ab.ca/academic\\_advising](http://www.rdc.ab.ca/academic_advising)

### [RDC Website](#)

<http://www.rdc.ab.ca>

### [RDC Timetable](#)

<http://www.rdc.ab.ca/timetable>

### [Alberta Transfer Guide](#)

<http://www.acat.gov.ab.ca>

### [School of Environment and Sustainability](#)

1-800-788-8028 (ask for BSc Environmental Science program office)  
<http://www.royalroads.ca/topic/environment-and-sustainability>

### [Royal Roads University](#)

<http://www.royalroads.ca>  
[learn.more@royalroads.ca](mailto:learn.more@royalroads.ca)

#### **PLEASE NOTE:**

Be aware that you are responsible for ensuring that your registration is complete and appropriate and that your course choices comply with the program to which you have been admitted at RDC and to the university to which you will transfer. You are cautioned that any changes to your courses, your major or your transfer destination may adversely affect your transferable credit, admission requirements for future programs, or eligibility to graduate from a RDC program. Consult with an academic advisor if you have any questions.

The function of academic advisors is to provide students with information and resources that enable them to make informed decisions relevant to their education. These resources include the RDC Calendar, the Academic Planning Guide for your chosen program and destination university, the Alberta Transfer Guide, and the calendar and contact information for your destination university. Academic advisors will assist you in interpreting information from these resources or refer you to your destination university if appropriate. Students in university transfer programs are strongly advised to refer to the calendar of the university to which they wish to transfer and should contact appropriate university departments as required.