

B.S. in Environmental Science

Program Guide for **New First-Year Students** (Effective Fall 2019)
 Department of Environmental Science (environmentalscience@rowan.edu)

Rowan University Graduation Requirements

- Students must complete at least 120 s.h. (semester hours) of coursework that applies to their Rowan University degree
- Students must have an overall/cum. G.P.A. of at least 2.0. (Only Rowan University courses count toward the G.P.A.)
- A minimum of 30 s.h. of coursework must be completed at/through Rowan University
- Only grades of “D-” or above may apply to graduation requirements (some programs may set higher minimums)
- Students must apply for graduation and should do so for the term in which they will complete all program requirements.

Program-Specific Graduation Requirements

- Students must receive a grade of C or better in all courses satisfying Major requirements

Rowan Core Courses (General Education)

Students must satisfy the requirements for all six Rowan Core Literacies

Rowan Core Literacy	Course #	Course Name	Sem/Yr	Grade	Credits
Communicative (COML)	COMP 01111	College Composition I (or equivalent)			3 s.h.
	COMP 01112	College Composition II (or equivalent)			3 s.h.
	CMS 04205	Public Speaking (or equivalent)			3 s.h.
Artistic (ARTL)	GEOG 16160	Intro to Mapping and GIS			3 s.h.
Global (GLBL)		Elective			3 s.h.
Humanistic (HUML)	PHIL 09369	Philosophy of Science (or elective choice)			3 s.h.
Quantitative (QNTL)	STAT 02101	Statistics I			3 s.h.
Scientific (SCIL)	CHEM 06100	Chemistry I			4 s.h.
Subtotal:					25 s.h.

Rowan Experience (RE) Courses

Courses that satisfy Rowan Experience requirements should be included in the Non-Program, Major or Rowan Core sections, and their credits are counted there. A course may satisfy more than one RE requirement.

- (LIT) Broad-Based Literature course
 (RS) Rowan Seminar course
 (WI) Writing Intensive course

Non-Program Courses

Course #	Course Name	Course Attributes / Notes	Sem/Yr	Grade	Credits
MATH 01130	Calculus I				4 s.h.
MATH 01131	Calculus II				4 s.h.
CHEM 06101	Chemistry II				4 s.h.
PHYS 00210	Physics I				4 s.h.
BIOL 01104	Introduction to Evolution and Scientific Inquiry				4 s.h.
GEOL 01.101	Physical Geology				4 s.h.
Subtotal:					24 s.h.

Major Courses (61-63 s.h.)

Environmental Science Core

Course #	Course Name	Course Attributes / Notes	Sem/Yr	Grade	Credits
EVSC 01.110	The Environmental Experience				1 s.h.
EVSC 01.115	Environment in the Headlines				1 s.h.
Choose one:					
EVSC 01.101	Planet in Peril				3 s.h.
EVSC 01.120	Oceans in Crisis				
EVSC 01.121	Global Environmental Change				
EVSC 01.122	Future of Food				
BIOL 01.106	Introduction to Genetics				4 s.h.
BIOL 01.203	Introduction to Cell Biology				4 s.h.
BIOL 01.204	Introduction to Ecology				4 s.h.
CHEM 07.200	Organic Chemistry I				4 s.h.
ENST 94.101	Human Nature: Intro. to Envir. & Sust. Studies				3 s.h.
ENST 94.301	Environmental Ethics				3 s.h.
EVSC 01.202	Envir. Science Research Methods & Data Analysis				4 s.h.
EVSC 01.220	Global Climate Crisis				3 s.h.
Choose one:					
EVSC 01.380	Atmosphere and Climate				3 s.h.
EVSC 01.385	Oceans				
EVSC 01.350	Field Methods in Environmental Science				4 s.h.
EVSC 01.305	Contaminants in the Environment				4 s.h.
Choose one:					
EVSC 01.410	Environmental Science Clinic				3 s.h.
EVSC 01.240	Senior Seminar in Environmental Science				
					Subtotal: 49 s.h.

*Restricted Electives (In consultation with advisor, Environmental Science or related electives)**

Course #	Course Name	Course Attributes / Notes	Sem/Yr	Grade	Credits
EVSC 01.375	Soil Science & Global Soil Resources				3 s.h.
EVSC 01.330	Scientific Computing & Analytics in Envir. Science				3 s.h.
EVSC 01.381	Understanding and Analyzing Climate Change				3 s.h.
EVSC 01.382	Sea Level Change				3 s.h.
EVSC 01.386	Estuaries				3 s.h.
EVSC 01.411	Research in Environmental Science				3 s.h.
EVSC 01.425	Shaping of Earth Systems				3 s.h.
EVSC 01.430	Radioactivity in the Environment				3 s.h.
EVSC 01.435	Aquatic Biogeochemistry				4 s.h.
EVSC 01.490	Special Topics in Environmental Science				3 s.h.
EVSC 01.525	Advanced Global Field Study				3 s.h.
					Subtotal: 12-14 s.h.

Free Electives

Course #	Course Name	Course Attributes / Notes	Sem/Yr	Grade	Credits
					Subtotal: 8-10 s.h.

**Additional courses are in development within Environmental Science. Other course options exist in other departments such as Biology and Chemistry.*

Total Program Credits: 120 s.h.