Get to know ENVIRONMENTAL STUDIES/SCIENCE

Society has become more aware of the seriousness of environmental problems the world faces today and at the same time we have realized that solutions are not simple. No environmental issue can be treated in isolation from the society in which it exists. Therefore, to work in the environmental field, students need knowledge on the cause and magnitude of environmental problems, as well as expertise in planning, policy and other solutions within our complex socio-economic-cultural world.

The Environmental Studies programs require a concentration in the Sciences or the Social Sciences and the Humanities. Environmental courses include core introductory science courses in areas such as Biology, Chemistry, Geography, Geological Sciences and Mathematics, plus integrative courses in subjects including Environmental History, Sociology, Economics, and Policy.

Course HIGHLIGHTS

Many of our courses focus on the environment such as Environmental Toxicology and Chemical Risks, and Environment and Sustainability. To get to solutions we first discuss current issues in courses like Marine Environmental Issues, Wildlife Issues in a Changing World, and Global Water Issues. And once we have discussed issues and solutions we move to inform policy with courses such as Environmental Assessment or Environmental Policy.

With both a Science option, and an Arts option, students in Environmental Studies can customize their degree and the way in which they look at the world.

A Year to CHOOSE

We often say that our students are like explorers. In Arts and Science, your first year is all about making choices and exploring new paths. Whether you are in Arts, Science or Computing, you will choose your courses from a wide variety of subjects as you settle into university life and become familiar with new styles of learning. By the end of your first year, you will have discovered your areas of interest, passion and success, and will then declare your major. Your first year, whether you consider it to be undeclared, undecided or simply a time for exploration, is bound to be a year full of adventure.

Degree PLANS

Bachelor of Science (Honours)
Major in Environmental Science / Specialization in Earth System Science, Environmental Biology, Environmental Chemistry, Environmental Geology, Environmental Life Sciences, Environmental Toxicology
Bachelor of Arts (Honours)
Medial / Minor in Environmental Studies
Internship option available

Queen’s ADMISSION

BScH students apply to Queen’s Science (QS) through the OUAC (Ontario Universities’ Application Centre) website (ouac.on.ca). Secondary School prerequisites include English 4U, Advanced Functions 4U, Calculus and Vectors 4U, plus 2 of Physics 4U, Chemistry 4U or Biology 4U or recognized equivalents.

BAH Students apply to Queen’s Arts (QA) through the OUAC website. Prerequisites include six 4U and 4M courses, including a minimum of three 4U courses, one of which must be ENG4U. Applicants outside of Ontario may have additional requirements.

Visit queensu.ca/admission for additional information regarding requirements and admission to Queen’s.
Environmental Studies/Science MAJOR MAP

**1ST YEAR**
- **GET THE COURSES YOU NEED**
  - In first year take BIOL 111 or 103, ENSC 103, GEOL 104, GPHY 101, 102, CHEM 112 (or CHEM 113/114), and 6.0 units from MATH.
  - In first year take BIOL 103 or 111, ENSC 103, GPHY 101, GPHY 102, GEOL 104, 106, or 107. For a Medical in BAH choose 3.0 units from Math, Statistics or Chemistry.
  - Build your transferable skills in time management, problem-solving, writing and more with Student Academic Success Services.

**GET RELEVANT EXPERIENCE**
- Join teams or clubs on campus such as the Earth Centre or Queen's Backing Action on Climate Change. See Queen's Sustainability webpage, the AMS Clubs Directory or the Queen's Get Involved page for more ideas.

**GET CONNECTED WITH THE COMMUNITY**
- Volunteer on or off-campus with different community organizations. See community organizations listed by the department, including SWITCH Ontario and the City of Kingston.

**GET THINKING GLOBALLY**
- Prepare for work or studies in a multi-cultural environment by taking QUIC's Intercultural Competency Certificate, and research possible immigration regulations.
- Speak to a QUIC advisor to get involved in their programs, events, and training opportunities.

**GET READY FOR LIFE AFTER GRADUATION**
- Grappling with program decisions? Go to Majors Night or get some help wondering about career options from Career Services.

**2ND YEAR**
- **GET THE COURSES YOU NEED**
  - In second year take ENSC 201 and ENSC 290 (if offered). Take 3.0 units of CLST 214, DEV5 220, DEV5 221, PHIL 203, PHIL 293, or RELS 235, along with electives outlined in the Academic Calendar.
  - For course information on specializations, see the online Environmental Studies degree Plan list.

**GET RELEVANT EXPERIENCE**
- Look into summer jobs by talking to the dept. or Career Services about work through SWEP or Work-Study.
- Take more responsibility within different clubs or extracurriculars.

**GET CONNECTED WITH THE COMMUNITY**
- Get involved with the Departmental Student Council (DSC).
- Watch for events in the School of Environmental Studies through the department website. Start or continue volunteering with organizations.

**GET THINKING GLOBALLY**
- Is an exchange in your future? Start thinking about where you would like to study abroad. Apply in January for a 3rd year exchange through the International Programs Office.
- Consider studying abroad in the summer. Look into taking BIOL 307, a China-Canada field course.

**GET READY FOR LIFE AFTER GRADUATION**
- Explore different careers of interest by reading books in the Career Services Information Area, such as Career Opportunities in Conservation and the Environment.
- For more information check out Career Cruising by finding and connecting with alumni on LinkedIn.

**3RD YEAR**
- **GET THE COURSES YOU NEED**
  - In third year take ENSC 301 and ENSC 390, 9.0 units from the integrative science list, and 6.0 units from interdisciplinary social science and humanities list, along with other course requirements outlined in the Academic Calendar.
  - Need help mapping all of your core, option, supporting and elective courses (including those not listed above) to make sure you will have what you need to complete your degree? Use the Course Mapping Tool on the Arts and Science website.

**GET RELEVANT EXPERIENCE**
- If interested, apply for an Undergraduate Student Summer Research Fellowship (USSRF). Consider applying to do a 12-16 month QUIC internship between your third and fourth year. Consider entrepreneurial opportunities via programs like the Queen's Innovation Connector Summer Initiative (QICSI).

**GET CONNECTED WITH THE COMMUNITY**
- Do targeted networking with alumni working in careers of interest by joining the LinkedIn group Queen's Connects. Check out Career Services networking workshops.
- Connect with professors at events or workshops hosted by the DSC.

**GET THINKING GLOBALLY**
- Build your intercultural competence by getting involved with other cultures or by practicing or improving your language skills.
- Think about Internship Opportunities abroad related to Environmental Studies.

**GET READY FOR LIFE AFTER GRADUATION**
- Start focusing on areas of interest. Research education requirements for careers of interest. If needed, prepare to take any required tests (like the LSAT or GMAT) and get help thinking about grad school from Career Services. Check out what some of our grads are doing at our website.

**4TH OR FINAL YEAR**
- **GET THE COURSES YOU NEED**
  - Investigate full-time jobs or other opportunities related to careers of interest. If interested, look for environmental opportunities through Planet Friendly.
  - Assess what experience you're lacking and fill in gaps with volunteering, clubs, or internships – check out the Career Services skills workshop for help.

**GET RELEVANT EXPERIENCE**
- Consider joining professional associations like the Ontario Environment Industry Association and the Canadian Institute for Environmental Law and Policy.
- Join groups on LinkedIn reflecting specific careers or topics of interest in Environmental Studies.

**GET CONNECTED WITH THE COMMUNITY**
- Investigate full-time jobs or other opportunities related to careers of interest. If interested, look for environmental opportunities through Planet Friendly.
- Assess what experience you're lacking and fill in gaps with volunteering, clubs, or internships – check out the Career Services skills workshop for help.

**GET THINKING GLOBALLY**
- International students interested in staying in Canada can speak with an International Student Advisor.

**GET READY FOR LIFE AFTER GRADUATION**
- Apply to jobs or future education, or make plans for other adventures. Get help from Career Services with job searching, resumes, interviews, grad school applications, or other decisions.

**2017 - 2018**

**WHERE COULD I GO AFTER GRADUATION?**
- Agriculture
- Air quality
- Architecture
- Bioethics
- Biotechnology
- Cartography
- Ecology
- Energy
- Environmental management
- Fisheries and wildlife
- Forestry
- Geographic information systems
- Health administration
- Horticulture
- Human and environmental health and safety
- International development
- Land quality
- Landscape architecture
- Law
- Meteorology
- Mining
- Oceanography
- Parks and natural reserves
- Public administration
- Research and development
- Restoration and reclamation
- Sustainable development
- Toxicology
- Transportation
- Urban and regional planning
- Waste management
- Water quality
- Some careers may require additional training.

**VISIT CAREERS.QUEENSU.CA/MAJORMAPS.HTML FOR THE ONLINE VERSION WITH LINKS!**

*This map is intended to provide suggestions for potential activities and career paths, but everyone's abilities, experience, and constraints are different. Build your own map using our online My Major Map tool.
What employers want

The Canadian Council of Chief Executives list the top 6 skills sought by employers as:

1. People skills
2. Communication skills
3. Problem-solving skills
4. Analytical abilities
5. Leadership skills
6. Industry-specific knowledge

Take the time to think about the unique skills you have developed at Queen’s, starting with the skills list here for ideas. Explaining your strengths with compelling examples will be important for applications to employers and further education. For help, check out the Career Services skills workshop.

What can I learn studying ENVIRONMENTAL STUDIES?

• Interdisciplinary perspective to understand environmental topics from a scientific, philosophical and ethical point of view
• Understand natural and human factors related to environmental problems
• Knowledge of local, national, and global environmental problems and issues
• Analytical skills to analyze data for trends and apply statistical tests
• Ability to interpret data from scientific experimentation and make conclusions based on research
• Experience with laboratory equipment
• Critical thinking to form, defend, and evaluate arguments and propose solutions
• Oral and written communication to create reports and give presentations
• Teamwork to work as a team on a long-term project
• Resource and time management

Why study in Kingston?

For over 175 years, the Kingston community has been a collection of bright minds. We are proud that our city was named one of the top Intelligent Communities across the globe, an accolade largely due to the thousands of students who study here every single year. In fact, the BBC has identified Kingston as one of the GREATEST UNIVERSITY TOWNS in the world, which might be why Instagram named the city ‘the happiest place on the planet’. Just a quick drive to Toronto, Montreal, Ottawa and even New York, Kingston is a safe and liveable city. Not only are we known as the freshwater sailing capital of the world, Kingston is arguably the birthplace of hockey. Wondering what to do while you’re attending school? Queen’s has more clubs per capita than any other university in Canada, and Kingston has more restaurants per capita than any other city in North America; your time here is guaranteed to be ‘fresh made daily’.

Succeed in the workplace