Academic and technical skills to conduct research, understand scientific principles, and get to know Chemistry.

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

Get to know CHEMISTRY

Chemistry explores the composition, structure and transformation of matter. Frequently called the central science, it provides the basis for studies in many other disciplines ranging from biology to materials science, in addition to being a booming discipline of its own, of course.

Located in Chernoff Hall, Queen’s Department of Chemistry is regarded as one of the best in Canada for both teaching and research. Our aim is to offer a stimulating learning environment for undergraduate students, primarily through participating in engaging, practical laboratory work. In upper years, depending on your interests, you can specialize in one of the more fundamental branches of the discipline, such as analytical, inorganic, organic, physical, or theoretical chemistry. You can also choose to explore interdisciplinary applications, such as environmental, material, biological, computational, or polymer chemistry.

Professional chemists play major roles in such diverse and important areas as the design and synthesis of pharmaceuticals and materials, the development of alternative energy sources, and the protection of the environment.

One of the top Chemistry teaching and research departments in Canada with accreditation by the Canadian Society of Chemistry.

How can I learn studying CHEMISTRY?

- Academic and technical skills to conduct research, understand scientific principles, and get to know Chemistry.
- Practical and fundamental knowledge of all subdisciplines of chemistry.
- Sensitivity to the health and safety of others - safe handling, storage and disposal of hazardous chemicals.
- Written and oral communication skills to prepare and present reports from research ideas and information using current technology.
- Observation and decision making skills.
- Resource and time management.
- Ability to operate laboratory equipment and to employ appropriate scientific lab techniques.
- Proficiency in mathematical and logical analysis.
- Sensitivity to the health and safety of others - safe handling, storage and disposal of hazardous chemicals.
- Organizational skills to compile, organize and maintain accurate records.
- Ability to operate laboratory equipment and to employ appropriate scientific lab techniques.

What can I learn studying CHEMISTRY?

- The Canadian Council of Chief Executives list the top 6 skills sought by employers as:
- People skills
- Communication skills
- Problem-solving skills
- Analytical abilities
- Leadership skills
- Industry-specific knowledge

Get the help you need

Queen’s provides you with a broad range of support services from your first point of contact with the university through to graduation. At Queen’s, your are never alone. We have many offices dedicated to helping you learn, think and do.

Ranging from help with academics and careers, to physical, emotional, or spiritual resources – our welcoming living and learning environment offers the programs and services you need to be successful, both academically and personally, and Queen’s wants you to succeed! Check out the Student Affairs website for available resources.

Succeed in the workplace

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 a Career Services workshop.

Chemistry

CHEMISTRY

Department of Chemistry

Faculty of Arts and Science

Chernoff Hall

90 Bader Lane

613-533-2616

chem.queensu.ca


That is a degree from Queen’s.

OUartsici.com
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 tool.

In ARTS? Add Chemistry as your MINOR.

**1ST YEAR**
- In first year take CHEM 112, PHYS 106 (or 104, 117), MATH 121 (or 120), MATH 112 (or 110, 111).
- Each Science Plan will have several required first-year courses, including minors. For details see the Arts and Science Academic Calendar.
- Build your transferable skills in time management, problem-solving, writing and more with Student Academic Success Services.

**2ND YEAR**
- If you are registered in a Chemistry Major or Specialization Plan, then you will take CHEM 211, 212, and 213 in the fall term, and CHEM 221, 222, and 223 in the winter term, along with other courses outlined in the Academic Calendar.
- Complete the required MATH and PHYS courses if you did not do so in 1st year.
- Want to enhance your degree? Consider a certificate in Employment Relations or explore other certificates available.

**3RD YEAR**
- Try to complete all of the 3rd year core Chemistry course requirements (CHEM 311, 312, 313, and 397 in the Full term, and 321, 322, 323, and 397 in the Winter term). For the Specialization Plan in Chemistry, 90.0 core/option units are required and planning for the extra 3rd and 4th year Chemistry courses is needed.
- 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.

**4TH OR FINAL YEAR**
- The Honours Research Thesis project (CHEM 497) is a requirement for both the Major and Specialization Plans in Chemistry. Take option courses in your areas of interest.
- By fourth year you should be working on your remaining option and elective courses. Make sure to map your minor and/or certificate(s) as well.
- Apply to graduate in SOLUS.

**GET THE COURSES YOU NEED**
- Join clubs on campus such as Let’s Talk Science, Women in Science and Engineering, or the Undergraduate Science Case Competition.
- See the AMS Clubs Directory or the Queen’s Get Involved page for more ideas.

**GET RELEVANT EXPERIENCE**
- Volunteer on or off-campus with community organizations such as Science Rendezvous.
- Consider joining an intramural sports or an athletics team. Check out the Athletics and Recreation site.

**GET CONNECTED WITH THE COMMUNITY**
- Get involved with the Departmental Student Council (DSC). Connect with professors at socially or attend speaker events. Start or continue volunteering.
- Look into summer jobs by talking to the dept. or Career Services about work through SWEP, NSERC, USRA or Work-Study.
- Consider entrepreneurial opportunities via programs like the Queen’s Innovation Connector Summer Initiative (QICS).

**GET THINKING GLOBALY**
- 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. Attend departmental information sessions on Plan selection (March).
- Explore different careers of interest by reading books in the Career Services Information Area, such as the Chemistry Careers. For more information check out Career Cruising or by finding and connecting with alumni on LinkedIn.
- In first year take CHEM 112, PHYS 106 (or 104, 117), MATH 121 (or 120), MATH 112 (or 110, 111).
- Each Science Plan will have several required first-year courses, including minors. For details see the Arts and Science Academic Calendar.
- Build your transferable skills in time management, problem-solving, writing and more with Student Academic Success Services.

**MAJOR MAP**

Visit careers.queensu.ca/majormaps.html for the online version with links!

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