Mr. Scott Yorke, a graduate of Dr. Glen Briand’s lab, is Mount Allison’s Career Services Coordinator and is available for consulting appointments (http://www.mta.ca/careers/contact.html). Biochemist Dr. Jeffrey Waller (jwaller@mta.ca) and chemist Dr. Stephen Westcott (swestcott@mta.ca) are available to meet with students enrolled as Chemistry/ Biochemistry Majors to further discuss their career options.

Past departmental graduates have gone on to (post) graduate education in medicine, dentistry, healthcare, pharmacy, optometry, podiatry, veterinary medicine, allied health fields, doctoral studies in biochemistry or biology, Masters of Business Administration (MBA), law, education, forensic sciences, patent agent, sales, bioinformatics, laboratory technicians, government, industry, and education.

It is the responsibility of the student to ensure that their course selections will meet the entry requirements for these graduate programs and that the student attain a high enough grade to pass entrance cutoffs.

Our best advice for choosing a successful career path is to choose a career; 1) whose subject matter you enjoy (and you will never work a day in your life), 2) that requires some specialization (so few others are qualified to do it), and 3) is valued by society in general (so your efforts are rewarded).

Generally, chemistry and biochemistry students will enter one of the following career areas and be employed by the one or more of the following employers by exploiting the following strategies.

<table>
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<tr>
<th>Career Areas</th>
<th>Employers</th>
<th>Strategies</th>
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</table>
| **RESEARCH** | Basic, Applied, Medical | - University laboratories  
- Federal government labs, agencies (NRC, Alberta Innovates, Health Canada, Agriculture & Agri-Food, DFO, RCMP, Canadian Forces,etc)  
- Public health labs  
- Commercial medical laboratories  
- Independent research foundations  
- Industry laboratories (pharmaceutical companies, biotechnology firms, food processors, cosmetic manufacturers, chemical/petroleum industries  
- Bachelor's degree in biochemistry, biology, or chemistry to qualify for laboratory technician/ research assistant positions.  
- Choose courses with laboratory work.  
- Get on the job experience in a laboratory by volunteering and/or do a Honours thesis research project.  
- Complete a certificate training program, usually one year, to learn specialized laboratory techniques.  
- Earn master's degree in biochemistry for better positions, advancement opportunities, more responsibility and higher pay.  
- Obtain Ph.D. to direct research projects and lead research teams. |
| **HEALTHCARE** | Medicine  
- Dentistry  
- Optometry | - Hospitals  
- Medical centers  
- Nursing homes  
- Private practice  
- Plan on attending medical school or other related graduate program.  
- Maintain an outstanding grade point average, particularly in the sciences. |
| Podiatry | Canadian Forces | Secure strong faculty recommendations. | Meet with a pre-health advisor periodically. | Join related student organizations. | Demonstrate leadership abilities. | Volunteer to work in a hospital or healthcare setting. | Find a summer job or internship in a hospital. | Develop a “back-up” plan in case medical/ graduate school admission is denied. | Consider alternative but related careers such as nurse physician assistants. | Research all of the various fields within medicine to determine a particular career goal. |
| Pharmacy | | | | | | | | | | |
| Veterinary Medicine | | | | | | | | | | |
| Allied Health | | | | | | | | | | |
| (Occupational and/or Physical Therapy) | | | | | | | | | | |
| Nursing | | | | | | | | | | |
| Nurse Practitioner | | | | | | | | | | |
| Emergency Medical Services | | | | | | | | | | |
| Global Health | | | | | | | | | | |
| Epidemiology | | | | | | | | | | |
| Genetic counselling | | | | | | | | | | |

**TEACHING**

- Public/private elementary to high schools
- Community college or technical institutes
- Medical professional schools
- Complete an accredited teacher preparation program for certification/licensure in biology and/or chemistry
- Earn a higher degree in biochemistry and gain research experience. Ph.D. required for universities, colleges

**BUSINESS**

- Sales/Marketing
- Technical Writing
- Scientific Journalism
- Regulatory Affairs
- Administration/Management
- Sales/Marketing
- Technical Writing
- Scientific Journalism
- Regulatory Affairs
- Administration/Management
- Sales/Marketing
- Technical Writing
- Scientific Journalism
- Regulatory Affairs
- Administration/Management

**OTHER PROFESSIONAL ACTIVITIES**

- Sales/Marketing
- Technical Writing
- Scientific Journalism
- Scientific Illustration
- Regulatory Affairs
- Administration/Management
- Scientific/Technical Recruiting
- Intellectual Property/Patent Law
- Biotechnology industry
- Pharmaceutical and chemical companies
- Publishers: textbook, magazine, newspaper, book
- Software firms
- Regulatory agencies
- Search firms
- Law firms
  - Legal departments of corporations
- For sales positions, gain sales experience through internships, part-time work, or summer jobs.
- Take business and/or computer classes.
- Become familiar with desktop publishing and other software packages.
- Develop strong written and oral communication skills.
- Get experience writing for a school or local newspaper.
- Obtain an MBA or Ph.D. to reach high levels of administration.
- Plan on attending law school if interested in law.
Why Should I Get a Degree in Chemistry?

Chemistry is often referred to as the central science, as it plays a vital role in nearly every other scientific field. As a result, a degree in chemistry can prepare you for a wide variety of careers, some of which you may have never considered. Below is some information on possible avenues to use your degree as well as some helpful links to other career resources.

Possible Careers (A Second Degree is Sometimes Required for these Vocations)

- Accelerator Chemist and Technician
- Agrochemist
- Analytical Chemist
- Architect
- Astrochemist
- Atmospheric Chemist
- Beam line scientist
- Biochemist
- Biotechnologist
- Catalysis
- Chemical Biologist
- Ceramics Industrial Chemist
- Chemical Engineering
- Chemical Information Specialist
- Chemical Sales Representatives
- Chemical Technologist
- Chemist (laboratory chemist profile)
- Chemistry Program Manager
- Clinical Chemist
- Colloid Scientist
- Computational Chemist
- Consultant
- Consumer Products Specialist
- Corrosion scientist
- Data analysis specialist
- Dentist
- Electronic Industrial Chemist
- Environmental Chemist
- Environmental Lawyer
- Entrepreneur
- Ethno botanist
- Food Chemist
- Forensic Chemist
- Fragrance Chemist
- Geochemist
- Government Policy Maker
- Hazardous Waste Management Specialist
- Health Care Scientist
- Inorganic Chemist
- Instrument Scientist
- Laboratory Manger
- Materials Scientist
- Natural Product Scientist
- Oncologist
- Organometallic Chemist
- Personal Care Product Scientist
- Photochemist
- Physician
- Metallurgy
- Military Systems Scientist
- NMR Manager
- Nuclear Chemist
- Oceanographer
- Organic Chemist
- Paper Industry Specialist
- Patent Lawyer
- Perfume Chemist
- Petroleum and Natural Gas Industrial Chemist
- Pharmaceuticals
- Pharmacist
- Physical Chemist (Chemical physicist)
- Plastics Industrial chemist
- Polymer Chemist
- Process Chemist
- Professor
- Radiation Chemist
- Radiotherapist
- Research Officer
- R&D Manager
- Science Writer
- Separation Scientist
Software Designer  
Space Exploration  
Surface Chemist  
Teacher  
Technical Writer  
Textile Industrial Chemist  
Theoretical Chemist

This list is nowhere near complete. You can work chemistry into any industrial, educational, scientific, or governmental field. Chemistry is a very versatile science. Chemistry students are able to solve problems and think things through. These skills are useful for any job!

Links
- [www.bama.ua.edu/~chem/undergraduate/undergradprograms/chem-careers.html](http://www.bama.ua.edu/~chem/undergraduate/undergradprograms/chem-careers.html)
- [www.udel.edu/CSC/students/major_resource_kits.html](http://www.udel.edu/CSC/students/major_resource_kits.html)
- [www.cheminst.ca/](http://www.cheminst.ca/)
- [http://portal.acs.org/portal/acs/corg/content?_nfpb=true&_pageLabel=PP_SUPERARTICLE&node_id=1188&use_sec=false&sec_url_var=region1&__uuid=f11fe1e6-b751-4d2d-b944-26c944f2fd39](http://portal.acs.org/portal/acs/corg/content?_nfpb=true&_pageLabel=PP_SUPERARTICLE&node_id=1188&use_sec=false&sec_url_var=region1&__uuid=f11fe1e6-b751-4d2d-b944-26c944f2fd39)
- [www.chem.utoronto.ca/undergrad/career_opportunities.php](http://www.chem.utoronto.ca/undergrad/career_opportunities.php)