

Mathematics, Bachelor of Science

Mathematics is the study of structure and pattern. Applied mathematicians develop models of structures in the real world, providing a language for many other physical and social sciences. In pure mathematics, the structures are more abstract, and the emphasis is on proof of ideas. With rapid expansion over the last few decades, research is very active in all areas of mathematics.

What you can be with your Mathematics, Bachelor of Science Degree:

Commercial Risk Methodologist	Actuary #2161	Sales Director #0611	Web Developer
Technical Writer	Business Analyst	Accountant #1111	Banking Manager #0122
Commodity Broker #1113	Computer Programmer #2174	Computer Consultant #2171	Financial manager #0111
Auditor #1111	Market Research Analyst #4163	Investment Analyst #1112	Production Manager #0131, #0911, #0811
Quality Assurance Analyst #2171	Purchasing Agent #1225	Demographer	Foreign Services Officer
Junior Defense Scientist	Statistician #2161	Meteorologist	Risk Analyst
Systems Analyst #2171	Compensation Officer #1121	Financial Auditor #1111	Astronomer #2111
Aerospace Engineer #2146	Cost Estimator #2233, #2234	Cartographer #2255	Air Traffic Controller #2272
Econometrician #4162	Demographer #2161	Economist #4162	Expediter #1473
Estate Developer #0121	Hydrologist #2113	Mathematician #2161	Meteorologist #2114
Operations Research Analyst #2161	Physicist #2111	Research Associate #1112	Professor #4121
Transportation Planner #2153			

This career/job listing is only a sample of the possible career options; these are certainly not the only career/job options accessible with this degree/diploma. Some of the careers listed require further education.

For career information, enter the four digit number listed below in the Alberta Learning Information Services Website (www.alis.alberta.ca) or the National Occupational Classification Website (<http://www5.hrsdc.gc.ca/NOC/>).

RDC Career Services can help you explore your interests, identify your goals, discuss your career options and job search strategies and discover how to make the most of your education. Email or give us a call to connect with a career counsellor.

RDC Department Information: Mathematics, Bachelor of Science rdc.ab.ca/programs/sciences

Potential employers:

Accounting Firms	Aerospace Companies	Bank & Trust Companies	Computer Consulting Firms
Communication Industry	Consulting Firms	Educational Institutions	Electrical Equipment Industries
Environmental Companies	Government	Insurance Companies	Manufacturing Firms
Market Research Firms	Military	Pharmaceutical Companies	Research Institutions
Resource & Utility Companies	Standard Hardware Firms		

Major Skills Obtained from Mathematics, Bachelor of Science Degree Program

- Apply individual prolonged effort to a problem Imagination and creativity
- Logical, systematic thought processes
- Patience
- Persistence
- Appreciation for challenges Communicate ideas clearly
- Capable of working alone and with others Problem solving
- Organizational skills
- Critical thinking Computer literacy
- Numerical computation
- Logical thinking
- Efficient
- Testing skills
- Probability theory and standard statistical methods and applications
- Understand concrete and mathematical concepts
- Systemizing skills
- Advanced quantitative skills
- Ability to analyze and interpret data

Professional Associations and Sites of Interest

American Mathematical Society - www.ams.org

Association of Women in Math - www.awm-math.org/ads.html

American Statistical Association - www.amstat.org

Mathematical Association of America -

www.maa.org

Association mathématique du Québec -

www.mlink.net/~amq/AMQ/

Canadian Applied and Industrial Mathematics -

www.caims.ca

Defense Research & Development - www.drdc-rddc.gc.ca/

Saskatchewan Institute of Applied Science & Technology –

www.siastr.sk.ca/ www.edu.gov.on.ca/eng/curriculum/elementary/scientec.htm

Canadian Mathematical Society -

www.camel.math.ca

Canadian Institute of Actuaries - www.actuaries.ca

Society for Industrial & Applied Mathematics-

<http://www.siam.org>

National Research Council Canada - www.nrc-cnrc.gc.ca/eng/index.html

Public Service Commission Canada - www.psc-cfp.gc.ca/index-eng.htm

Information adapted from <http://caps.mcgill.ca/handouts/whattodo/math.pdf>

<http://www.uleth.ca/ross/ces/majors/mathematics.pdf>