

# Faculty of SCIENCE

## Program Options:

Four Year Degree

Co-operative Education & Internships Available

## Areas of Study:

Biology	Chemistry and Biochemistry	Computer Science (CS)
Economics	Geography	Geology
Mathematics and Statistics (incl. Actuarial Science)		Physics
Environmental Health & Science (FNUC)		Psychology
Indigenous Environmental Science (FNUC)		

## Short Term Program Options:

Certificate in Computer Science

Certificate in Indigenous Health Studies

## Joint Programs:

Chemical Technology Medical Laboratory Science

Post-Diploma in Computer Science

Environmental Biology

Medical Imaging

**Degree Programs *may* qualify students to apply for the following transfer and/or post**

**degree professional programs:**

Agriculture & Bioresources

Medicine

Occupational Therapy

Chiropractic

Nursing

Optometry

Dentistry

Nutrition

Pharmacy

Law

Physical Therapy

Veterinary Medicine

## Proficiencies & Knowledge

- Design experiments and projects
- Analyze and interpret data
- Assess and solve complex problems
- Write clear and accurate technical reports
- Measure pollutants in the air, water and soil
- Develop and Implement software projects
- Analyze and problem solve in various programming languages
- Describe earth materials in thin section, hand specimen, outcrop and core
- Analyze complex geological & environmental problems (e.g., subsurface geology, climate change)
- Apply fundamental scientific concepts
- Identify the location of natural resources (e.g. petroleum)
- Plan, set up and conduct chemical analyses (e.g. soil, hormones, water)
- Design, synthesize and test new chemical products (e.g. drugs, foods, fuels, paints, new materials, nanochemicals)
- Deduce theorems and construct mathematical models
- Design and perform experiments with specialized equipment
- Apply principles of physics & mathematics to understand and solve problems in different fields
- Conduct field and lab research
- Examine evidence and DNA
- Think analytically and critically
- Apply statistical techniques

## Career Options

### Biology

Biochemist  
Ecologist  
Forensics  
Immunologist  
Microbiologist  
Pharmacologist  
Teacher  
Toxicologist

### Chem/BioChem

Analytical Chemist  
Clinical Chemist  
Food Scientist  
Pathology Assistant  
Plant Physiologist  
Pollution Control  
Professor  
Science Writer

### Computer Science

Analyst  
IT Consultant  
Multimedia Designer  
Programmer Analyst  
Software Developer  
Systems Administrator  
Technical Support  
Website Designer

### Economics

Bank Economist  
Credit Analyst  
Economic Development  
Fiscal Policy Analyst  
Market Analyst  
Portfolio Manager  
Real Estate  
Stackbroker

### Geography

Climatologist  
Ecotourism  
GIS Tech/Analyst  
Land Surveyor  
Parks Planner  
Research Analyst  
Teacher  
Urban Planning

### Geology

Cartographer  
Field Geologist  
Geochemist  
Hydrologist  
Mineralogist  
Prospector  
Seismologist  
Volcanologist

### Math & Stats

Account Manager  
Biostatistician  
Budget Analyst  
Epidemiology  
IMO Actuary  
Insurance  
Investment Analyst  
Teacher/Professor

### Physics

Astronomer  
Biophysics  
Health Physicist  
Laser Technician  
Physicist  
Remote Sensing  
Science Writer  
X-Ray Crystallographer

### Psychology

Autism Services  
Behaviour Therapy  
Counsellor  
Disability Services  
Neuropsychology  
Psychometrist  
Research Analyst  
Vocational Rehabilitation

For more details, visit: <http://www.uregina.ca/science/programs/index.html>