Preparing for Health Sciences Programs





Halifax • Canada



Many students undertake Bachelor of Science degrees at Saint Mary's in order to effectively prepare themselves for further education leading to careers in medicine, pharmacy, dentistry, nursing, midwifery, veterinary medicine, occupational therapy, physiotherapy, genetic counselling, or other health science fields.

Small class and lab sizes at Saint Mary's allow students to work closely with faculty, helping to develop excellent theoretical and laboratory skills, and—importantly—gain valuable research experiences.

If you're interested in pursuing a career in the health sciences, book an appointment with one of our Science Advisors. They can help ensure that you'll meet the admission requirements for your next academic goal while also completing your Bachelor of Science degree in a timely manner. Common requirements for health science programs can include courses in biology, chemistry, genetics, cell biology, organic chemistry, biochemistry, physiology, anatomy, microbiology, calculus, statistics, and physics.

Graduate and professional health sciences programs have specific prerequisites and admissions tests such as the Medical College Admission Test (MCAT), Dental Admissions Test (DAT), and General Graduate Record Examination (GRE). Be sure to research the admission requirements for your program and school of interest early in your undergraduate degree.

Small class and lab sizes allow students to work closely with faculty.

Science courses at Saint Mary's provide students with an excellent foundation for careers in the health sciences. Students will learn how to:

- Collect, analyze, and interpret scientific data through a wide range of hands-on laboratory experiences
- Search and critically interpret scientific literature
- Deliver effective oral, written, and visual scientific communication
- Work collaboratively

Did You Know...

SMU Students can take a certificate in Forensic Sciences or Health, Wellness and Sport in Society along with their undergraduate degree programs.

Questions?



Your Science Advisors can help you choose your courses, declare a major, and plan for your career.

Book now: smu.ca/ScienceAdvising

Group One

Common Requirements for admission to Health Sciences Programs such as Accelerated Nursing, Pharmacy, Dentistry, Physiotherapy, Veterinary Science, or Occupational Therapy, or which may be helpful when preparing for standardized tests (e.g. MCAT, DAT, GRE). The specific courses required vary by program and university, so be sure to check the specific requirements for your programs of interest.

Biology

Molecular and Cell Biology	. Biol	1211
Organismal and Ecological Biology	. Biol	1212
Applications in Biology	. Biol	1213
Genetics	. Biol	2307
Cell Biology	. Biol	2321
Principles of Physiology	. Biol	3004
Comparative Vertebrate Anatomy	. Biol	3020
Integrative Vertebrate Physiology	. Biol	3021
Biostatistics	. Biol	3308
Microbiology	. Biol	3398

Chemistry

General (Chemistry I	Chem	1210
General (Chemistry II	Chem 1211 or	1212
Organic (Chemistry I & II	.Chem 2344 &	2354
Introduct	tion to Biochemistry	Chem	3451

Physics

University Physics I & II...... Phys 1210 & 1211

Math

Introductory Calculus I	. Math 1210
Introductory Calculus II	. Math 1211
Intro to Mathematical Statistics	. Math 1216

Group Two

Faculty of Science courses that are not required for admission to most health sciences programs, but which may be of interest and help you prepare for your chosen career.

Biology

Forensic DNA typingBiol 3007/Frsc	3007
Plant BiologyBiol	3303
Molecular Biology Biol	3419
EvolutionBiol	3423
Bioinformatics and Genomics Biol	4007
Biology of CancerBiol	4010
Osteology Biol	4100
Animal Athletic Performance Biol	4407
Animal Developmental Biology Biol	4408
Medical and Veterinary Entomology Biol	4432
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Chemistry

Biochemistry: Intermed. Metabolism .. Chem 4452 Biochemistry: Secondary Metabolism Chem 4453

Environmental Science

Forensic Sciences (Certificate)	
Forensic Human Anatomy	Frsc 3400
*Students must be accepted into the	Certificate
in Forensic Sciences Program to take to	this course

The Environment & Human Health Envs 3440

Geology

Environment, Ra	diation and S	SocietyG	Geol 1207
Environmental	Geology:	Atlantic	Canada
Perspective		G	eol 1208

Psychology

Psychology		
Introduction to Psychology	Psyc	1000
Introduction to Biological Psychology	Psyc	1100
Intro to Developmental Psychology	Psyc	1400
Sensation and Perception	Psyc	2110
Child Development	Psyc	2410
Adolescent Development		
Longevity and Aging		
Cognitive Neuroscience		
Drugs and Behaviour		
Health Psychology	Psyc	3140
Occupational Health Psychology	Psyc	3210
Intro to Cognitive Neuroscience	Psyc	3310
Behavioral Analysis and Change	Psyc	3321
Typical & Atypical Development	Psyc	3410
Psychopathology: Specific Disorders	-	
Forensic Psychology	Psyc	3720
Psychophysics and Perception	Psyc	4110
Advanced Cognitive Neuroscience		
Prevention & Treatment of Addictions	_	
Human Neuropsychology		
Counselling and Psychotherapy 1		
Applied Sport Psychology		
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Group Three

Interdisciplinary courses which may be of interest and help you prepare for your chosen career.

Anthropology

Intro to Forensic Anthropology	Anth 2282
Human Evolution and Adaptation	Anth 2100
Sex, Gender & Society	Anth 3303
Forensic Skeletal Identification	Anth 3471
Forensic Skeletal Analyses	Anth 3472
Forensic Facial Anatomy	Anth 3473
Human Variation	Anth 3474
Paleopathology	Anth 3475

Atlantic Canada Studies

Health & Social Policy in Atl. Canada Acst 2400
Health, Illness & Disease in Atl. Can Acst 4400

Criminology

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Introduction to Criminology	Crim 1303
Criminological Theory	Crim 3011
Practicum in Social Development	Crim 3610
Criminalization of Mental Illness	Crim 4429

English

ECOHOLINGS	
Health Economics	Econ 3366
Geography	
People, Place and Environment	Geog 1200
Biogeography	Geog 2333
Community & Regional Dev	Geog 4431

Cultural Studies Engl 3343

Health, Wellness and Sport in Society (Certificate)

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Health, Wellness and Sport in Society: An
IntroductionHwss 2000
Experiential Learning in Health, Wellness and
Sport in SocietyHwss 3000
Seminar in Health, Wellness and Sport in
SocietyHwss 4000
*Students must be accepted into the Certificate
in Health, Wellness and Sport

History

The Irouble	e with	n Norma	al		Hist 3201
History of I	Medic	ine			Hist 3202
History of	the	Body,	Health	and	Sexualities
1400-1900	J				Hist 3203

Intercultural Studies

Intercultural Communicationlcs

Management

Occupational Health and Safety Mgmt 3392

Philosophy

Ethics	Phil 2302
Science and Society	Phil 2318
Bioethics	Phil 2368

Political Science

Public	Adminis	tration		Poli 3	3330
Public	Policy	Challenges:	Gender,	Race	and
Class.				Poli 4	1449

Religion

Death	Rels 1352
Spirituality and Work	Rels 2330
Science and Religion	Rels 3349

Social Justice and Community Studies

Daca	Daciem	and	Colonialiem	Sics 2220
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Sociology

Sociology of Health and Illness Soci 3310	Sociology (of Health and	Illness	Soci 3316
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Note that many upper-level courses require introductory courses as prerequisites. Please see the Calendar for details.