McMaster Life Sciences

Most **flexible, interdisciplinary**, student-oriented program in Science at McMaster University

Program best suited to **student interests** and **career** goals

Prepares students for professional schools and to become leaders in a life science field

Develop **transferable skills** and **critical thinking** with a multidisciplinary approach
McMaster Life Sciences

**LEVEL 1 courses**

- PSYCH 1X03, 1XX3
- BIOL 1A03, 1M03
- MATH 1A03 or 1LS3
- PHYSICS
  - BioPhys 1S03 or Med Phys 1E03 or Physics 1B03 or 1L03

**Life Sci Course List**

- ENVIR SC 1A03, 1B03 or 1G03
- KIN 1Y03, 1YY3
- CHEM 1A03, 1AA3

Completed by the end of Level 3

**LEVEL 2-4 courses**

- LIFE SCI
- BIOL
- MOL BIOL
- PSYCH
- ENVIR SC
- GEOG
- KIN
- HEALTH SCI
- CHEM BIOL
- CHEM
- ORIGINS

Origins Research Specialization is possible
Level 2-4 in Life Science Program

Honours B.Sc: 90 units

3 units  LIFE SCI 2A03

9 units  LIFE SCI 2C03, 2D03, 2G03, 2H03, 2N03, BIOCHEM 2EE3, BIOL 2B03, 2F03, KINESIOL 2Y03, 2YY3

6 units  LIFE SCI 3A03, 3B03, 3C03, 3D03, 3F03, 3H03, 3J03, 3K03, 3M03, 3R03, 3X03, 3Z03

36 units  Honours Life Sciences Course List

0-9 units  remaining from level I

27-36 units  Electives

24 units => minor

Proposed for 2014 and later:

Co-op programs and Experiential Learning/Internships Streams (Human Health, Education, Ecosystem Health)
McMaster Life Sciences

LIFE SCI 2A03
Research Methodologies in Life Sciences

LIFE SCI 2C03
Neural Communications & Information Processing
McMaster Life Sciences

LIFE SCI 3A03
Health and Diseases

LIFE SCI 3B03
Neurological mechanisms of behaviour

Level 3

LIFE SCI

BIOL

MOL BIOL

PSYCH

ENVIR SC

GEOG

KIN

HEALTH SCI

CHEM BIOL

CHEM

ORIGINS
McMaster Life Sciences

LIFE SCI 3D03
Environment and Global Sustainability

LIFE SCI 3F03
Applied Ecology Seminars (experiential learning)
McMaster Life Sciences

Honours Life Sciences Course List

36 units; at least 18 from lvl III & IV

FLEXIBILITY & CHOICE RESPONSIBILITY

Level

LIFE SCI
MOL BIOL
BIOL
BIOCHEM
KIN
HEALTH SCI
CHEM BIOL
CHEM
ORIGINS

PSYCH
ENVIR SC GEOG
• **LIFE SCI 2A03**: required by all LIFE SCI students
  • Small, inquiry-based tutorials
  • World-renowned guest lecturers
    ➢ Stem Cell and Cancer Research Institute
    ➢ United Nations University Institute for Water, Environment and Health (INWEH)
  • Science communication skills
Experiential Learning courses

* Explore career options and integrate academics in the laboratory or clinic of a faculty member.

* Minimum 60 hours of volunteer or paid placement

* LIFE SCI 2AP3:
  Prerequisite: Level II and minimum C.A. of 9.0
Experiential Learning courses

**LIFE SCI 3EP3:**
Prerequisite:
   Registration in Level III and credit or registration in SCI 2C00

**LIFE SCI 4EP6:**
Prerequisite:
   Registration in Level IV and credit or registration in SCI 2C00

Where do I go now?
[www.science.mcmaster.ca/lifesciences/experiential-ed-opportunities.html](http://www.science.mcmaster.ca/lifesciences/experiential-ed-opportunities.html)
Research skills

- Independent and small group research projects
- Projects with professors in any Faculty of Science or Health Science department or at affiliated hospitals and research institutes
- Students may complete one of 3 courses (3 to 9 units):
  - 3RP3, 4A03, 4B06 or 4C09
- Research Seminars
Careers in the Life Sciences

- Many health-related fields:
  - medicine, dentistry, nursing, physiotherapy, pharmacy, optometry, audiology
- Post-graduate training in Biology, Biochemistry, Psychology, Neuroscience, Ecology and Environmental Science
- Education, Teacher’s college
- Environmental research & consulting
- Law school, Business school, Journalism
Join the Life Science Society to learn through collaboration.
LSS is run by current LIFE SCI students who love the program and want to help others.
Attend events on behalf of the Life Sciences Program.
Organize social events.
Bulletin board near BSB/106.

http://www.maclss.com/
Life Sciences Program
Is it right for you?  Come and find out!

* Life Sciences Interdisciplinary Research Symposium
  April 3, 2013, 1:30 – 6:00pm
  CIBC Hall (MUSC)
  Thesis presentations
  Poster presentations

* LSS Interdisciplinary Research Conference
  March 20, 2013, 6 – 9pm
  HSC 1A4
  Learn from professors & students about current topics in Life Sciences
Life Sciences Program
Is it right for you?  Come and find out!

Director:
Dr. Pat Chow-Fraser

Assoc. Director:
Dr. Kim Dej

Administrator:
Ms. Sarah Robinson, BSB 109

Instructional Asst:
Ms. Sunita Nadella, BSB 201A

Academic Advisor:  Ms. Kathy McIntosh, BSB 110  lsp@mcmaster.ca

http://www.science.mcmaster.ca/lifesciences/