

Life Sciences Information Session

- Dr. Louise Winn, Associate Dean, Life Sciences and Biochemistry Professor, Biomedical and Molecular Sciences & Environmental Studies
- DSC Co-Presidents
 - Meaghan Frank and Isaac Emon
- Academic Co-Chairs
 - Lindsay Jefferson and Leila Tibouti

Monday October 18, 2021





Office of Life Sciences and Biochemistry

Location

- Rm. 815 Botterell Hall
- Lifesci@queensu.ca
- Katherine Rudder LISC
- Dr. Louise Winn Assoc. Dean LISC & BCHM
- Use your Queen's email and leave your student #







Information for 2nd year Life Science students

going into 3rd year





SSP:

Recommended (but not necessary) if your career plans include <u>research</u> (i.e., graduate school) as there is a heavy emphasis on hands-on laboratory/research experience. **Also meets the needs of most professional schools.

MAJ:

Recommended if your career plans are more inclined towards an emphasis on using your biomedical training to pursue a <u>non-research</u> career involving other professional training (medical, dental, business, law or other postgraduate school). The course requirements for the MAJ are designed for the needs of the non-research life sciences or biochemistry student; less core credits and more electives allows for the pursuit of additional electives which can thus be tailored to specific career need. **Also meets the needs of most professional schools.





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Recommended if your career plans are more inclined towards an emphasis on using your biomedical training to pursue a <u>non-research</u> career involving other professional training (medical, dental, business, law or other postgraduate school). The course requirements for the MAJ are designed for the needs of the non-research life sciences or biochemistry student; less core credits and more electives allows for the pursuit of additional electives which can thus be tailored to specific career need. **Also meets the needs of most professional schools.



WHAT WILL MY CORE DEGREE PLAN BE? ^{3rd} Year Life Sciences Major



- MAJOR students must obtain a minimum cumulative GPA of 2.5
 - No specific core course requirement
 - Need 3U from LISC List A at the 400 level
 - Need 15U from LISC List A at the 300 level or above
 - Need 6U from LISC List A at the 200 level or above
 - Need 6U from LISC List A



WHAT WILL MY CORE DEGREE PLAN BE?

made availabl only if space p	made available during the Open Enrolment period, and then only if space permits.			
LISC List A				
Code	Title	Units		
Options in th	e Life Science Maior Plan			
ANAT				
вснм				
CANC				
CRSS				
DDHT				
EPID				
LISC				
MICR				
NSCI				
PATH				
PHAR				
PHGY				
REPD				
BIOL 205	Mendelian and Molecular Genetics	3.00		
BIOL 243	Introduction to Statistics	3.00		
BIOL 243	Animal Robaviour	2.00		
BIOL 321	Environmental Dhysiology of Animals	3.00		
BIOL 322		3.00		
BIOL 330	Applytical Conomics	3.00		
BIOL 331	Analytical Genomics	3.00		
BIOL 334	Animal Dhysiology	3.00		
BIOL 339	Animai Physiology	3.00		
BIOL 350	Evolution and Human Analis	3.00		
BIOL 369 BIOL 401	Experimental Approaches to Animal Physiology	3.00		
BIOL 403	Experimental Techniques in Biology	3.00		
BIOL 404	Techniques in Molecular Biology	3.00		
BIOL 430	Molecular Genetics of Development	3.00		
BIOL 441	Molecular Genetics	3.00		
BIOM 300	Modeling Techniques in Biology	3.00		
BMED 270	in stored in stored	3.00		
BMED 370		5.50		
BMED 380				
BMED 381	Clinical Biochemistry	3.00		
BMED 383	chined biochemistry	5.00		
BMED 384	Integrative Laboratory Course	3.00		
BMED 480	Clinical Applications of Human Apatomy	3.00		
BMED 480		5.00		
BMED 462	Advanced Topics In Infectious Dispasso	3.00		
CHEM 212	Introduction to Chemical Analysis	3.00		
	Introduction to chemical Analysis	3.00		

CHEM 221	Material, Solutions, Interfaces	3.00			
CHEM 222	Methods of Structure Determination	3.00			
CISC 271	Linear Data Analysis	3.00			
HLTH 323	Epidemiology	3.00			
MATH 221	Vector Calculus	3.00			
MATH 225	Ordinary Differential Equations	3.00			
MATH 228	Complex Analysis	3.00			
MATH 272	Applications of Numerical Methods	3.00			
PHYS 206	Dynamics	3.00			
PHYS 216	Introduction to Astrophysics	3.00			
PHYS 242	Relativity and Quanta	3.00			
PSYC 100	Principles of Psychology	6.00			
PSYC 235	Abnormal Psychology	6.00			
PSYC 236	Introdution to Clinical Psychology	3.00			
PSYC 251	Developmental Psychology	3.00			
PSYC 271	Brain and Behaviour I	3.00			
PSYC 305	Introduction to Comparative Cognition	3.00			
PSYC 323	Laboratory in Attention	3.00			
PSYC 333	Human Sexuality	3.00			
PSYC 353	Atypical Development	3.00			
PSYC 355	Comparative Cognition: Cognitive Origins Laboratory	3.00			
PSYC 360 The Neurobiology and Psychology of Sleep3.0					
PSYC 370	Brain and Behaviour II	3.00			
PSYC 398	Selected Topics in Psychology I	3.00			
PSYC 420	Advanced Topics in Cognitive Psychology	3.00			
PSYC 422	Advanced Topics in Attention	3.00			
PSYC 435	Advanced Topics in Clinical Psychology	3.00			
PSYC 470	Advanced Topics in Behavioural Neuroscience	3.00			
PSYC 471	Behavioural Pharmacology	3.00			
PSYC 473	Neurobiology of Psychiatric Disorders	3.00			
STAM 200	Introduction to Statistics	3.00			
STAT 263	Introduction to Statistics	3.00			
Excluding the following courses and any course numbered 499:					
ANAT 270	Human Anatomy and Morphology	3.00			
BCHM 270	Biochemical Basis of Health and Disease	3.00			
CANC 497	Current Topics in Cancer Biology and Genetics	3.00			
MICR 270	Infection, Immunity and Inflammation	3.00			
PHGY 170	Human Cell Physiology	3.00			
Any courses numbered 499					







WHAT WILL MY CORE DEGREE PLAN BE? ^{3rd} Year LISC Specialization

• Specialization students must obtain a minimum cumulative **GPA of 2.5**

- Core 3rd year courses for Specialization:
 - PHAR 370 (3U)
 - 3 Units from MICR at 300 level; MICR400-453; MICR 461
 - Depending on subplan BCHM 315 (3U) and BCHM 316 (3U) or BCHM 310 (9U)



WHAT WILL MY CORE DEGREE PLAN BE?



• SUB-PLANS:

- **Biomedical Discovery** recommended if you want laboratory experience
- Biomedical Sciences provides more flexibility, can take more advanced courses
- CANC those wishing to proceed with research in the field of cancer
- **CRSS** those wishing to proceed with research in the field of cardiovascular and respiratory sciences
- **DDHT** those wishing to proceed with research in the field of drug discovery and development as well as toxicology
- **NSCI** those wishing to proceed with research in the field of neurosciences

Non-Arts and Sciences courses



- Only 6 units of non-Arts and Sciences courses can be used towards your degree
 - Ie LAW, Commerce courses
- Exception can take BMED courses



Combined BSc/MSc



- Life Sciences offer a combined program
- "Accelerated" path to graduate school
- Apply in the 2nd term of 3rd year
- Take up to 6 units of graduate courses during 4th year
- Continue 4th year research project







If you get an acceptance to medical school in your 3rd year...

Life Sciences & Biochemistry – General Bachelor of Science

Honours routes: Major or Specialization Health Sciences– General Bachelor of Health Sciences

Honours route: Major

Research In Action







Career Services

Home » Students » Services for Students » Employment Programs » Queen's Undergraduate Internship Program (QUIP)

Queen's Undergraduate Internship Program (QUIP)

The Queen's Undergraduate Internship Program (QUIP) provides students with a 12-16 month work experience. QUIP internships are paid, professionally supervised, career-related positions designed to offer second or third year students the opportunity to learn about current advances, practices and technologies in business and industry. The program is open to students in the Faculty of Engineering and Applied Science (domestic and international), Faculty of Arts and Science (domestic only; not for credit). Due to the longer work term (compared to a 4-month co-op), employers are highly motivated to maximize their time and investment. This means that Internship students are offered the opportunity to manage more extensive and significant projects.

Search QUIP job postings

Contact QUIP coordinator

Got Questions? Come and see the QUIP Coordinator during QUIP Drop-in Advising Hour - no appointment necessary!

QUIP Drop-in Advising: Every Tuesday and Thursday from 11-12 in the Career Advising and Resources Area (Sept-April)

Eligibility

The program is open to students in the Faculty of Engineering and Applied Science (domestic and international), Faculty of Arts and Science (domestic and international), School of Computing (domestic and international) and the School of Business (domestic only - please see an academic advisor in the School of Business before registering).

- Queen's students can participate in QUIP after their 2nd or 3rd year of studies and must be returning to complete their final academic term after the internship.
- Students must have a minimum GPA of 1.9 and the permission of your undergraduate chair to register in QUIP.

http://careers.queensu.ca/students/services-students/employment-programs/queens-undergraduate-internship-program-quip

STUDENTS

- Looking for a Job?
- Wondering about Career Options?
- Thinking about Grad School?
- Want to Build Experience?
- Tipsheets & Career Resources
- Services for Students
 - Graduate and Professional Students
 - Employment Programs
 - M.Eng. Industrial Internship
 Program
 - QUIP
 - SWEP
 - Work Study Program
 - Drop-in Career Advising
 - Events, Fairs, & Information Sessions
 - Career Advising & Resource Area
 - Workshops
 - Appointments
- It All Adds Up
- Linkedin at Queen's



GO

Search this site ...







LSO Networking Night

Please join the LSO members, Board and other Industry individuals for the November Networking Night

LSO's Networking Nights event series provides a forum for LSO members and non-members to build connections with the life sciences community in a social setting.

On average we have 100 -120 confirmed attendees per event, with our most popular event drawing 140 people. One third of attendees represented SME companies, 33% were researchers/students, with the remainder being consultants, lawyers, investors, accelerators, multinationals, and government delegates.

If you are looking to raise your profile within the Life Sciences community, Sponsorship Opportunities are available. For more information, please contact the LSO Office (<u>admin@lifesciencesontario.ca</u>)









By email:

Life Sciences – <u>lifesci@queensu.ca</u> (Katherine Rudder)





DSC Representatives

DSC Instagram Office Hours

DSC Events: Check Social Media (@queensulifesci)

