We start this issue with an optimistic Welcome to February as the current Queen’s plan is to return to campus for in-person classes after Reading Week (Monday, February 28). Unless designated officially as remote courses by the Faculty of Arts and Science, courses are returning fully to in-person modes.

NSERC Undergraduate Summer Research Awardees 2023! 
Congratulations to this year’s recipients of the prestigious NSERC Undergraduate Summer Research Award!!

These students will be conducting a whole summer’s worth of research in Biology, so all the best!! The experience promises to be rewarding and represents a major career-building step.
AWARDS
Please don’t forget to check the awards opportunities at:
https://biology.queensu.ca/academics/undergraduate/awards-opportunities/

1ST YEAR STUDENTS!
Thinking about a career in Medicine, Veterinary Science, Environmental Law, Education, Conservation & Sustainability and Biotechnology. Check out the virtual MAJORS NIGHT on February 10, 2022, from 4:00 pm to 7:00 pm (https://careers.queensu.ca/events-workshops/majors-night) and the MAJORS MAPS webpage (https://careers.queensu.ca/students/wondering-about-career-options/major-maps). Please do not hesitate to connect with us for further discussions (appointments can be set up using Zoom this year).

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Are you going into 4th year 2022-2023 – here are a few reminders!

BIOL 537
Faculty Project Profiles and Application are already updated for 2022-2023 and can be found at: https://biology.queensu.ca/academics/undergraduate/courses/honours-thesis-course/
Application deadline: March 21, 2022.

BIOL 500 Seminar Courses
We are currently working on a course teaching plan for next year. We hope by mid-April to have the application and the BIOL 500 course offerings and descriptions ready to send to you.

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BIOL 404 - Summer 2022
BIOL 404 will be offered this coming summer. It will be offered twice, once in May and again in August. If you are interested, let us know so that we can register you manually this year.

Please note that because these are two week courses the add/drop dates are different from full term summer offerings.
BIOL 404 – April 25 to May 6, the last date to add or drop the course is April 25 at mid-night.
BIOL 404 – August 15 to August 26, the last date to add or drop the course is August 15 at mid-night.
Course details can be found at:  [https://130.15.90.125/BioLab/biol404.html](https://130.15.90.125/BioLab/biol404.html)

**BIOL 404/3.0  Techniques in Molecular Biology**

Intensive laboratory work (8h/day) to be carried out over two and a half weeks in May. Practical work includes DNA isolations, DNA cloning, PCR, production of proteins, biochemical and immunological analysis of proteins. NOTE Priority to students registered in BIOL Major and Specialization degree Plans. See course website for details.

LEARNING HOURS 112.5 (100Lb;12.5P)
PREREQUISITE (BCHM 218/3.0 or BIOL 330/3.0) and a minimum GPA of 2.0 in the Biological Foundations List.

**BIOL418 – Summer 2022**

BIOL 418 will be offered this coming summer. The course starts Sunday, May 8, 2022 and finishes Saturday, May 21, 2022. If you are interested, let us know so that we can register you manually this year.

Please note that because these are two week courses the add/drop dates are different from full term summer offerings.

**BIOL 418/3.0  Fisheries Techniques**

This course will introduce students to many "hands-on" techniques currently used in fisheries. This will include fish identification, different capture techniques for fisheries assessment, bioacoustics, environmental monitoring, techniques for ageing fish, diet analysis, fish tracking (biotelemetry approaches), and data management.

LEARNING HOURS 120 (30Lb;10T;40G;40P)

PREREQUISITE  BIOL 316/3.0. and a minimum GPA of 2.0 in the Biological Foundations List.

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Queen's Castle this Summer

“Have plans this summer? Add global perspectives to your studies and catch up or get ahead in your degree this summer at the [Bader International Study Centre (BISC)](https://www.queensu.ca/bader), Queen’s UK Castle campus!

Get out this summer and enjoy the BISC’s hands on experiential learning opportunities, small class sizes, close contact with instructors, and research opportunities in the BISC’s [Castle Summer+] or [Interdisciplinary Studies in Global Health & Disability] program.

New to Castle Summer+ is [BIOL 338/3.0: Marine Biology](https://www.queensu.ca/bader/courses/biol338) where you can discover and measure species richness, biodiversity, and species distributions during the course’s fieldwork component along the south coast of England!

Interested in a summer term at Queen’s Castle? Make sure to join us for an upcoming webinar to learn more about our summer programs and hear from our BISC Ambassadors, current students who’ve attended the BISC!

Visit the [BISC’s Upper Year Program’s page](https://www.queensu.ca/bader/upper-year-program) for details and registration info on our upcoming events.
If you have any questions big or small, don’t hesitate to send them to castle@queensu.ca, we’re happy to help!

A recent graduate of Biology’s Biotechnology program organized a virtual “Women in Biotech Panel Discussion” through her work and thought the event would be of interest to you. She is extending a warm invitation to attend. It is on February 11, 2022 at 1 pm EST. This will be a great opportunity to learn of various career paths in biotech. The link to the event page is: https://hubs.li/Q0130MnK0

![Women in Biotech Panel Discussion](image)

Are you interested in getting hands-on experience in molecular plant research this summer?

Join our Plant Immunology Research Group

Check out our webpage (www.monaghanlab.ca) for more information on what we do. Our lab offers an excellent training environment in molecular biology and plant sciences and we are excited to train undergraduates. Students should have a solid background in courses covering molecular biology, biochemistry, plant biology, and/or genetics, and an enthusiasm to conduct independent research. Previous lab experience is not essential and we welcome applications from any interested candidate.

Did you know? … In order to encourage students to explore subject matter outside their program of study and to promote interdisciplinary study, all upper-year Arts and Science students will be permitted to designate up to 6.0 units of degree-credit courses for pass/fail grading, thereby minimizing any risk to the students’ GPA. Such courses designated for pass/fail grading will be referred to as Personal Interest Credits (PICs). https://www.queensu.ca/artsci/students-at-queens/the-personal-interest-credit

Wondering about how many courses you can take from other Faculties and Schools towards your degree plan/program?

A maximum of 6.0 units from courses offered by other Faculties and Schools may be counted towards the Program and/or Plan requirements of any degree in the Faculty of Arts and Science, in addition to any such courses allowed as either Core or Option course requirements.
The courses listed in the document below are approved for students in the Faculty of Arts and Science. 
https://www.queensu.ca/artsci/students-at-queens/academic-calendar#section-courses-of-instruction

Need help with your studies? 
Please visit Student Academic Success Services (SASS) at http://sass.queensu.ca/. SASS offers academic support to students who wish to develop their skills in critical thinking, reading, learning, studying, writing and self management.

Looking for a job?

Wondering about career options or maybe considering Graduate School…then you need to visit: https://careers.queensu.ca/students

Wondering how to contact your course program associate regarding work associated with the lab component of core courses?
BIOL 102: biol102@queensu.ca
BIOL 103: biol103@queensu.ca
BIOL 200: biol200@queensu.ca
BIOL 205: biol205@queensu.ca
BIOL 206: biol206@queensu.ca
BIOL 212: biol212@queensu.ca
BIOL 300: biol300@queensu.ca

REMINDEERS!

Biology Degree Plans
Review your degree plan requirements and make sure you are selecting courses you need. Degree plan requirements can be found at: http://www.queensu.ca/artsci.

Biological Foundations List - IMPORTANT!
It is very important to keep this GPA requirement in mind throughout your program, starting with first year. To be admitted to 400 and 500 level Biology courses, you will need a minimum GPA of 2.0 in any previously taken courses from Biological Foundations list.

The Biological Foundations List is BIOL 102, 103, 200, 212, (201, 202), 205, 206, 300, 330, 334, 339, and 341 (302, 303).

To be admitted to BIOL 400 and 500 level Biology courses you will need a minimum cumulative GPA of 2.0 in any previously taken courses from this list.

Helpful Links

Information on Applying for a Course Prerequisite Waiver
Arts and Science Academic Deadlines
Arts and Science Calendar
Frequently Asked Questions

QUBS Quick Links
Website: https://qubs.ca
Facebook: https://www.facebook.com/QUBioStation
Twitter: https://twitter.com/QUBS_Director
Flickr: http://www.flickr.com/photos/qubsoutreach
YouTube: https://www.youtube.com/user/QUBScam

Looking for a job? Quick Link
Looking for study and travel opportunities? Quick Link

BIOLOGY Undergraduate Office
Monday to Friday 9:30am – 12:00pm & 1:00pm – 3:00pm
Rm. 3109d, BIOSC Complex
ug.biology@queensu.ca

NOTE: Use email to correspond during COVID-19 as we are working remotely.