

# BIOLOGICAL SCIENCES

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## Chair:

Jason Rohr

## Director of Graduate Studies:

David Medvigy

## Director of Undergraduate Studies, Biological Sciences:

Jennifer Robichaud

## Director of Undergraduate Studies, Environmental Sciences:

Dominic Chaloner

## Professors:

Elizabeth Archie; Sunny Boyd; Patricia Champion; Alvaro Acosta Serrano; Crislyn D'Souza-Schorey; Jeffrey Feder; Michael Ferdig; Kasturi Haldar; David Hyde; Mary Ann McDowell; Bernard Nahlen; T. Alex Perkins; Michael Pfrender; Jason Rohr; Jeffrey Schorey; Nathan Swenson; Jennifer Tank

## Associate Professors:

Giles Duffield; Ana Flores-Mireles; Hope Hollocher; Xin Lu; Jason McLachlan; David Medvigy; Adrian Rocha; Pilar Pérez Romero; Zachary Schafer; Cody Smith; Kevin Vaughan; Rebecca Wingert

## Assistant Professors:

Katrina Adams; Tyler Coverdale; Cristian Koepfli; Jianneng Li; Christopher Patzke; Felipe Santiago-Tirado; Julian Torres-Dowdall

## Professors Emeriti:

Gary Belovsky; Nora Besansky; John Duman; Malcolm Fraser; Paul Grimstad; Barbara Hellenthal; Ronald Hellenthal; Gary Lamberti; David Lodge; T. Mark Olsen; Joseph O'Tousa; Jeanne Romero-Severson; David Severson; Kristin Shrader-Frechette

## Teaching Faculty:

Trenton Agrelius; Diane Lane; Kristin Lewis; Nancy Michael; Jennifer Robichaud; Benjamin Rudenga; David Veselik; Michelle Whaley

## Professors of the Practice:

Dominic Chaloner; Joanna Larson; Xuemin (Sheryl) Lu; Michael McConnell; Bharat Mishra; Ryan Sensenig; Amy Stark; Patricia Vaughan

## Research Faculty:

Nicole Achee; John Grieco; Lee Rafuse Haines; Anita Lerch; Neil Lobo; Daniela Miranda; Angana Mukherjee; Prasad Padmanabhan

## Program of Studies

The Department of Biological Sciences offers programs of study leading to the degrees of bachelor of science with a major in biological sciences or bachelor of science with a major in environmental sciences, master of science in biological sciences and doctor of philosophy. Also offered is a second major in environmental sciences for students in the Colleges of Arts and Letters, Business Administration or Science.

## Policy Statement on the Use of Organisms in Biological Sciences Teaching Laboratories

Some laboratory courses offered by the Department of Biological Sciences may involve the use of living or preserved organisms. Instructors use these animal specimens in cases where this is deemed necessary for teaching important biological concepts and principles. *Students who have concerns about the use of organisms in classes must, prior to registering, submit a request for alternate materials to the course instructor.* It is up to the discretion of the instructor(s) as to whether and how non-organism alternatives may be substituted for biological materials in classes. *Students permitted to use alternate materials are responsible for the same knowledge and application as their classmates and may be required to complete examinations that involve the inspection or handling of biological specimens.*

## Biology Courses

The biology courses included in this Bulletin are those reasonably expected to be offered several times to every semester during the next four years. However, changes may occur as faculty add new courses or drop those with little demand. Courses without laboratories are indicated as lecture only.

The requirements in biological sciences include courses from a basic five-core sequence, laboratory courses and sufficient numbers of BIOS electives to complete the 41-credit-hour requirement.

***All majors are strongly encouraged to complete the sequence Biological Sciences I and II (BIOS 10171 – BIOS 10172) in their first year*** to ensure the completion of all requirements in four years. Students wishing to change majors into the biological sciences should have completed the introductory biology sequence to ensure interest and the completion of all their requirements in four years without overloading. Otherwise, students may be at a considerable disadvantage in scheduling requirements. Students would have one year less to explore their interests in biology.

- Biological Sciences (BS) (<https://catalog.nd.edu/undergraduate/science/biological-sciences/biological-sciences-bs/>)
- Biological Sciences (Minor) (<https://catalog.nd.edu/undergraduate/science/biological-sciences/biological-sciences-minor/>)
- Environmental Sciences (BS) (<https://catalog.nd.edu/undergraduate/science/biological-sciences/environmental-sciences/>)
- Environmental Sciences (Second Major) (<https://catalog.nd.edu/undergraduate/science/biological-sciences/environmental-sciences-suppl/>)
- Science & Patient Advocacy (Minor) (<https://catalog.nd.edu/undergraduate/science/biological-sciences/scientific-patient-advocacy-minor/>)
- Sustainability (Minor) (<https://catalog.nd.edu/undergraduate/science/biological-sciences/sustainability-minor/>)
- UNDERC Field Biology Programs (<https://catalog.nd.edu/undergraduate/science/biological-sciences/underc-field-biology-programs/>)