



Twin Cities Campus

Integrative Biology and Physiology Minor

Integrative Biology and Physiology

Medical School

Link to a [list of faculty](#) for this program.

Contact Information:

Department of Integrative Biology and Physiology, Jackson Hall 6-125, 321 Church Street S.E., Minneapolis, MN 55455 (612-625-5902; fax: 612-301-1543)

Email: ibpdept@umn.edu

Website: <http://physiology.med.umn.edu/graduate-program/>

- Program Type: Graduate minor related to major
- Requirements for this program are current for Fall 2020
- Length of program in credits (Masters): 9
- Length of program in credits (Doctorate): 12
- This program does not require summer semesters for timely completion.

Along with the program-specific requirements listed below, please read the [General Information](#) section of the catalog website for requirements that apply to all major fields.

Physiology may be defined as the application of mathematics, physics, and chemistry to the study of structure and function in living systems. As such, physiology is a "hybrid" field in which expertise from many other disciplines is ordinarily required and combined. The program emphasizes a quantitative approach to understanding the functions of cells, organs, and systems in living animals.

The graduate program in the Twin Cities has a cardiovascular emphasis, although many other areas of specialization are represented.

The program includes faculty and corresponding research laboratories from the Department of Integrative Biology and Physiology and also the Departments of Medicine; Surgery; Neuroscience; Neurosurgery; Biochemistry, Molecular Biology, and Biophysics; Pharmacology; Physical Medicine and Rehabilitation; Kinesiology; and Animal Science.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission

Other requirements to be completed before admission:

Students interested in the minor are strongly encouraged to confer with their major field advisor and director of graduate studies, and the Integrative Biology and Physiology director of graduate studies regarding feasibility and requirements.

For the minor, a background in mathematics, physics, chemistry, and biology acceptable to the graduate faculty is required.

For an online application or for more information about graduate education admissions, see the [General Information](#) section of the catalog website.

Program Requirements

Use of 4xxx courses toward program requirements is permitted under certain conditions with adviser approval.

Students must complete the minor with a 3.00 GPA. All coursework must be taken A-F.

Coursework

Select coursework in consultation with the IBP director of graduate studies. Masters students must complete at least 9 credits; doctoral students complete at least 12 credits.

PHSL 4xxx

PHSL 5xxx

PHSL 8xxx



Program Sub-plans

Students are required to complete one of the following sub-plans.
Students may not complete the program with more than one sub-plan.

Masters

Doctoral