Admissions to the Physiology Ph.D. have been suspended as of fall 2018 and will be discontinued as of fall 2024. If you have any questions, please contact the department (https://pgtp.wisc.edu).

The physiology graduate training program is interdisciplinary in its approach to scientific research, reflecting the breadth of the discipline of physiology. Powerful new tools in modern biology make it possible to link the cellular and molecular with integrative levels in physiological systems, the cardiovascular, respiratory, renal, endocrine, neurophysiological, gastrointestinal, musculoskeletal, and metabolic systems. The program provides doctoral training in mechanistic studies that use these new tools to study the functions of molecules, cells, tissues, and organ systems in preparation for careers in biomedical research, biotechnology, and academic teaching. Students learn through lecture courses, seminar courses, seminars by speakers from campus and from other institutions, journal clubs and, most important, from their research mentors. Students are encouraged to interact with other training programs and research centers to broaden their knowledge and experience. Gaining expertise in public speaking is an important component of the program.

**ADMISSIONS**

Admissions to the Physiology Ph.D. have been suspended as of fall 2018 and will be discontinued as of fall 2024. If you have any questions, please contact the department (https://pgtp.wisc.edu).

Given the interdisciplinary nature of physiology, students from a variety of undergraduate backgrounds qualify for admission to the program. Entering students generally have degrees in biology, chemistry, physics or engineering, and have usually taken courses in biology, biochemistry, chemistry, mathematics, and physics. Students may be admitted to the program without having completed one or more of these courses but will be required to take them in their first year of graduate school. In addition to the online application, applicants for admission should submit official transcripts from each previous undergraduate and postgraduate institution; three letters of recommendation; a one-page personal statement describing research experience and personal goals, and indicating faculty with research activities of interest to the student. Graduate Record Exam (GRE) scores are requested from all students. International students should also send scores of the Test of English as a Foreign Language (TOEFL), or International English Language Testing System (IELTS). Application deadline is December 1—we do not offer spring or summer admission.

Please consult the table below for key information about this degree program's admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program's website. Graduate admissions is a two-step process between academic programs and the Graduate School. **Applicants must meet the minimum requirements** (https://grad.wisc.edu/apply/requirements) of the Graduate School as well as the program(s). Once you have researched the graduate program(s) you are interested in, apply online (https://grad.wisc.edu/apply).

### FUNDING

**GRADUATE SCHOOL RESOURCES**

Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid. Further funding information (https://grad.wisc.edu/funding) is available from the Graduate School. Be sure to check with your program for individual policies and processes related to funding.

**PROGRAM RESOURCES**

Financial aid is provided to all students, usually in the form of grant-supported research assistantships, institutional fellowships, teaching assistantships, or advanced opportunity fellowships for minority or disadvantaged students. Students are encouraged to contact individual professors in their areas of interest to determine whether support is available for working in that lab.

### REQUIREMENTS

**MINIMUM GRADUATE SCHOOL REQUIREMENTS**

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/policiesandrequirementstext), in addition to the program requirements listed below.

### MAJOR REQUIREMENTS

#### MODE OF INSTRUCTION

<table>
<thead>
<tr>
<th>Mode of Instruction Definitions</th>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evening/Weekend: These programs are offered in an evening and/or weekend format to accommodate working schedules. Enjoy the advantages of on-campus courses and personal connections, while keeping your day job. For more information about the meeting schedule of a specific program, contact the program.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Online: These programs are offered primarily online. Many available online programs can be completed almost entirely online with all online programs offering at least 50 percent or more of the program work online. Some online programs have an on-campus component that is often designed to accommodate working schedules. Take advantage of the convenience of online learning while participating in a rich, interactive learning environment. For more information about the online nature of a specific program, contact the program.</td>
<td></td>
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<tr>
<td>Hybrid: These programs have innovative curricula that combine on-campus and online formats. Most hybrid programs are completed on-campus with a partial or completely online semester. For more information about the hybrid schedule of a specific program, contact the program.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Accelerated: These on-campus programs are offered in an accelerated format that allows you to complete your program in a condensed time-frame. Enjoy the advantages of on-campus courses with minimal disruption to your career. For more information about the accelerated nature of a specific program, contact the program.</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
**CURRICULAR REQUIREMENTS**

Requirements Detail

<table>
<thead>
<tr>
<th>Minimum Credit Requirement</th>
<th>51 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Residence Credit Requirement</td>
<td>32 credits</td>
</tr>
<tr>
<td>Minimum Graduate Coursework Requirement</td>
<td>Half of degree coursework (26 credits out of 51 total credits) must be completed graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university’s Course Guide (<a href="http://my.wisc.edu/CourseGuideRedirect/BrowseByTitle">http://my.wisc.edu/CourseGuideRedirect/BrowseByTitle</a>).</td>
</tr>
<tr>
<td>Overall Graduate GPA Requirement</td>
<td>3.00 GPA required.</td>
</tr>
<tr>
<td>Other Grade Requirements</td>
<td>The Graduate School requires an average grade of B or better in all coursework (300 or above, not including research credits) taken as a graduate student unless conditions for probationary status require higher grades. Grades of Incomplete are considered to be unsatisfactory if they are not removed during the next enrolled semester.</td>
</tr>
<tr>
<td>Assessments and Examinations</td>
<td>Doctoral students are required to take a comprehensive preliminary/oral examination after they have cleared their record of all Incomplete and Progress grades (other than research and thesis). Deposit of the doctoral dissertation in the Graduate School is required.</td>
</tr>
<tr>
<td>Language Requirements</td>
<td>Contact the program for information on any language requirements.</td>
</tr>
<tr>
<td>Doctoral Minor/ Breadth Requirements</td>
<td>All doctoral students are required to complete a minor.</td>
</tr>
</tbody>
</table>

**REQUIRED COURSES**

Physiology core curriculum includes:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSIOL 901</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td>NTP/NEURODPT 610</td>
<td>Cellular and Molecular Neuroscience</td>
<td>4</td>
</tr>
<tr>
<td>ANAT&amp;PHY 435</td>
<td>Fundamentals of Human Physiology (or equivalent)</td>
<td>5</td>
</tr>
<tr>
<td>STAT/B M.I 541 or STAT/F&amp;W ECOL/HORT 571</td>
<td>Introduction to Biostatistics or Statistical Methods for Bioscience I</td>
<td>3-4</td>
</tr>
<tr>
<td>OBS&amp;GYN 955</td>
<td>Responsible Conduct of Research for Biomedical Graduate Students</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives may be determined according to student interest and program director approval.

**POLICIES**

**GRADUATE SCHOOL POLICIES**

The Graduate School’s Academic Policies and Procedures (https://grad.wisc.edu/acadpolicy) provide essential information regarding general university policies. Program authority to set degree policies beyond the minimum required by the Graduate School lies with the degree program faculty. Policies set by the academic degree program can be found below.

**MAJOR-SPECIFIC POLICIES**

**GRADUATE PROGRAM HANDBOOK**

The Graduate Program Handbook (https://pgtp.wisc.edu/handbook-forms) is the repository for all of the program’s policies and requirements.

**PRIOR COURSEWORK**

**Graduate Work from Other Institutions**

Courses taken that fulfill the equivalent requirements may be considered to exempt a class: If demonstrated didactic knowledge of physiology, then ANAT&PHY 435 may be exempted. If considerable background in neuroscience, then NTP/NEURODPT 610 Cellular and Molecular Neuroscience may be exempted. Statistics courses may be considered by the student’s advisory committee for exemption; however, students are still strongly encouraged to participate. These exemptions do not waive a student from any credits, merely from taking the courses. The student will still need to accumulate 51 credits for the degree.

**UW–Madison Undergraduate**

Courses taken that fulfill the equivalent requirements may be considered to exempt a class: If demonstrated didactic knowledge of physiology, then ANAT&PHY 435 may be exempted. If considerable background in neuroscience, then NTP/NEURODPT 610 may be exempted. Statistics courses may be considered by the student’s advisory committee for exemption; however, students are still strongly encouraged to participate. These exemptions do not waive a student from any credits, merely from taking the courses. The student will still need to accumulate 51 credits for the degree.

**UW–Madison University Special**

Courses taken that fulfill the equivalent requirements may be considered to exempt a class: If demonstrated didactic knowledge of physiology, then ANAT&PHY 435 may be exempted. If considerable background in neuroscience, then NTP/NEURODPT 610 may be exempted. Statistics courses may be considered by the student’s advisory committee for exemption; however, students are still strongly encouraged to participate. These exemptions do not waive a student from any credits, merely from taking the courses. The student will still need to accumulate 51 credits for the degree.

**PROBATION**

The Graduate School regularly reviews the record of any student who earned grades of BC, C, D, F, or Incomplete in a graduate course (300 or above), or grade of U in research credits. This review could
result in academic probation with a hold on future enrollment or in being suspended from the Graduate School.

**ADVISOR / COMMITTEE**

Every graduate student is required to have an advisor. An advisor is a faculty member, or sometimes a committee, from the major department responsible for providing advice regarding graduate studies. An advisor generally serves as the thesis advisor. In many cases, an advisor is assigned to incoming students. Students can be suspended from the Graduate School if they do not have an advisor.

To ensure that students are making satisfactory progress toward a degree, the Graduate School expects them to meet with their advisor on a regular basis.

A committee often accomplishes advising for the students in the early stages of their studies.

**CREDITS PER TERM ALLOWED**

15 credits

**TIME CONSTRAINTS**

Doctoral degree students who have been absent for ten or more consecutive years lose all credits that they have earned before their absence. Individual programs may count the coursework students completed prior to their absence for meeting program requirements; that coursework may not count toward Graduate School credit requirements.

A candidate for a doctoral degree who fails to take the final oral examination and deposit the dissertation within five years after passing the preliminary examination may be required to take another preliminary examination and to be admitted to candidacy a second time.

**OTHER**

Students are funded by program dollars to do rotations during their first semester. After having settled on a lab, their research mentor will fund the student, either through his/her research grants, program-available TA-ships, or other fellowships.

**PROFESSIONAL DEVELOPMENT**

**GRADUATE SCHOOL RESOURCES**

Take advantage of the Graduate School's professional development resources (https://grad.wisc.edu/pd) to build skills, thrive academically, and launch your career.

**LEARNING OUTCOMES**

1. Teach physiology, engaging audiences and helping them to learn.
2. Demonstrate a didactic knowledge of physiology.
3. Describe past science, propose future experiments, and defend their ideas to peers in a proposal format.
4. Understand that science and research is based on trust—trust between scientists and colleagues, trust between scientists and policy makers, trust between scientists and advisory boards, and trust between scientists and society.

5. Write for a proper audience, revising and responding to reviewers as appropriate.
6. Communicate their science verbally and do so in a clear manner for a variety of audiences.

**PEOPLE**

Faculty: See faculty list (http://pgtp.wisc.edu/faculty) on the program website.