

Dual Degree Program in Biology and Physical Therapy

This is a special dual degree program which enables a student to receive both a Bachelor of Science degree (biology major) and a Doctor of Physical Therapy degree from UW-La Crosse. Students typically complete the undergraduate requirements in three years followed by 34 months of attendance in the physical therapy graduate program. The undergraduate requirements include completion of the general education program, college core requirements (with the exception of a minor), physical therapy pre-requisite course work, and all of the requirements for the biology major except six credits of biology elective courses.

UW-La Crosse students will be selected for entrance into the graduate program in physical therapy through a competitive application process. Participation in the undergraduate Biology/PT dual degree program does not guarantee admission to the graduate program in physical therapy.

Major requirements

(All colleges, excluding teacher certification programs)

33 credits (52 total credits including CHM and MTH requirements)

Each student must have a minimum of three 400 level BIO credits (excluding BIO 450, 479, 489, 491, 495, and 499) to fulfill requirements of the major.

Code	Title	Credits
BIO 105	General Biology	4
BIO 203	Organismal Biology	4
BIO 306	Genetics	4
BIO 307	Ecology	3
BIO 315	Cell Biology	4
BIO 491	Capstone Seminar in Biology	1
Select one upper level (300/400) lab component		1-4
BIO 302	Introductory Plant Identification	
BIO 303	Vertebrate Form and Function ¹	
BIO 312	Human Anatomy and Physiology I ¹	
BIO 313	Human Anatomy and Physiology II ¹	
BIO 321	Ornithology	
BIO 333	Radiation Biology	
BIO 341	Limnology	
BIO 404	Plant Taxonomy	
BIO 405	Aquatic and Wetland Vascular Plants	
BIO 406	Parasitology	
BIO 408	Developmental Biology	
BIO 410	Human Cadaver Dissection	
BIO 412	Mycology	
BIO 413	Medical Mycology	
BIO 414	Freshwater Invertebrate Zoology	
BIO 419	Quantitative Methods in Ecology	
BIO 422	Ichthyology	
BIO 436	Molecular Biology Laboratory	
BIO 439	Plant Anatomy	
BIO/MIC 440	Bioinformatics	

BIO/MIC 442	Plant Microbe Interactions	
BIO 447	Standard Methods/Quality Assurance Water Analyses	
BIO 456	Plant Ecology	
BIO 467	Neurobiology Laboratory Techniques	
BIO 468	Human Molecular Genetics Lab	
MIC 421	Virology Laboratory	
Select 10-12 credits of electives from the following: ²		10-12
BIO 202	Introduction to Biological Data Analysis and Interpretation	
BIO 210	Animal Biology	
BIO 302	Introductory Plant Identification	
BIO 303	Vertebrate Form and Function ¹	
BIO 312	Human Anatomy and Physiology I ¹	
BIO 313	Human Anatomy and Physiology II ¹	
BIO 321	Ornithology	
BIO 330	Economic Botany	
BIO 333	Radiation Biology	
BIO 337	Plant Physiology	
BIO 341	Limnology	
BIO 404	Plant Taxonomy	
BIO 405	Aquatic and Wetland Vascular Plants	
BIO 406	Parasitology	
BIO 408	Developmental Biology	
BIO 410	Human Cadaver Dissection	
BIO 412	Mycology	
BIO 413	Medical Mycology	
BIO 414	Freshwater Invertebrate Zoology	
BIO 419	Quantitative Methods in Ecology	
BIO 422	Ichthyology	
BIO 424	Human Endocrinology	
BIO 428	Advanced Nutrition for the Health Professions	
BIO 429	Evolution	
BIO 432	Biology of Cancer	
BIO 435	Molecular Biology	
BIO 436	Molecular Biology Laboratory	
BIO 437	Plant Growth and Development	
BIO 439	Plant Anatomy	
BIO 440	Bioinformatics	
BIO 441	Environmental Toxicology	
BIO 442	Plant Microbe Interactions	
BIO 443	Molecular Mechanism of Disease and Drug Action	
BIO 447	Standard Methods/Quality Assurance Water Analyses	
BIO 449	Advanced Microscopy and Biological Imaging	
BIO 456	Plant Ecology	
BIO 458	Comparative Animal Physiology	
BIO 464	Stream and Watershed Ecology	
BIO 465	Neurophysiology	
BIO 466	Human Molecular Genetics	
BIO 467	Neurobiology Laboratory Techniques	
BIO 468	Human Molecular Genetics Lab	
BIO 473	Marine Biology	
BIO 476	Ecosystem Ecology	
MIC 230	Fundamentals of Microbiology	

MIC 310	Immunology
MIC 350	Bacterial Diversity
MIC 380	Food Microbiology
MIC 410	Immunology Laboratory
MIC 420	Introductory Virology
MIC 421	Virology Laboratory
MIC 427	Industrial and Fermentation Microbiology
MIC 428	Fermentation Microbiology Laboratory
MIC 434	Aquatic Microbial Ecology
Select three semesters of chemistry, including:	15-18
CHM 103	General Chemistry I
CHM 104	General Chemistry II
And one of the following organic chemistry options:	
Option A (5 credits) ³	
CHM 300	Fundamental Organic Chemistry
& CHM 302	and Fundamental Organic Chemistry Laboratory
Option B (7 credits)	
CHM 303	Organic Chemistry Theory I
& CHM 304	and Organic Chemistry Theory II
& CHM 302	and Fundamental Organic Chemistry Laboratory
Option C (8 credits)	
CHM 303	Organic Chemistry Theory I
& CHM 304	and Organic Chemistry Theory II
& CHM 305	and Organic Chemistry Laboratory
Math requirement	4
STAT 145	Elementary Statistics
Total Credits	52-55

¹ A maximum of eight credits of BIO 303, BIO 312, BIO 313 can be applied to the major.

² Up to two credits of BIO 499 may be used as electives.

³ This is the recommended option for most biology majors, but students should consult with their biology advisor before enrolling.

In addition, students must complete the physical therapy prerequisite course work (<http://catalog.uwlax.edu/graduate/programrequirements/physicaltherapy/dpt/#programrequirements>).

Degree requirements

All students must complete the general education, college core, major/minor, and university degree requirements in order to qualify for a degree. The easiest way to track all of these requirements is to refer to the Advisement Report (AR) found in the Student Information System (WINGS) Student Center. All enrolled students have access to the AR.

- General education (<http://catalog.uwlax.edu/undergraduate/generaleducation/>)
- College core for B.S. (no minor required) (p. 2)
- Baccalaureate degree requirements (p. 2)
- Doctor of Physical Therapy requirements (<http://catalog.uwlax.edu/graduate/programrequirements/physicaltherapy/dpt/>)

College of Science and Health (CSH) Bachelor of Science core requirements

B.S. and B.A. students graduating from the College of Science and Health are required to take two natural laboratory science courses selected from the general education laboratory science category (GE 05) and/or from BIO 203, BIO 304, BIO 210, CHM 104, ESC 221, ESC 222, PHY 104 or PHY 204, and they either must take two mathematics courses or one math course and one computer science course from the math/logical systems category of the general education requirements (GE 02). One of the two science courses must be from a department outside of the student's major department.

Note: Math courses can be pairs, i.e. 150 and 151; MTH/CS majors can use two science courses from same department.

For the Bachelor of Science degree, in addition to all other College of Science and Health core requirements, students from non-exempted programs¹ must complete one of the following options. It is recommended that courses are selected in consultation with students' academic advisor.

1. Complete a second major; or
2. Complete a minor outside the major; or
3. Complete an individualized option, consisting of 18 credits
 - a. At least 12 credits must be earned at the 300/400 level outside the major department.
 - b. The remaining six credits should come from
 - i. 100 level or higher courses outside the major (General education courses may apply provided they are not being used to fulfill minimum general education requirements.); or
 - ii. 300/400 level courses inside major not being used to fulfill major requirements.
 - c. Internship credits may not count toward the individualized option.

¹ The list of exempted CSH programs is below.

Baccalaureate degree requirements

Candidates for the Bachelor of Arts or the Bachelor of Science degrees must accomplish the following:

1. Fulfill the general education requirements.
2. Complete at least one ethnic studies (diversity) course.
3. Complete the courses prescribed by the Undergraduate Curriculum Committee for the degree desired in the respective school or college. (No substitutions for graduation may be made in course requirements for a major or minor after the fourth week of the last semester of the senior year.)
4. Earn a minimum of 120 semester credits with at least a 2.00 cumulative GPA.^{1,2}
5. At least 40 credits must be earned in 300/400 level courses. Transfer courses earned or transferred at the 300/400 level apply to this requirement.

6. Complete major and minor requirements with at least a 2.00 GPA¹,² in each major and minor (and concentration or emphasis, if selected).
7. A minimum of 30 semester credits in residence at UWL is required for graduation. (See undergraduate resident requirement (<http://catalog.uwlax.edu/undergraduate/academicpolicies/graduation/#undergraduate-residence-requirement>.)
8. Submit an application for graduation via the "Apply for Graduation" link in the WINGS Student Center as soon as the student has registered for his or her final semester or summer term in residence. December and winter intersession graduates should apply by May 1. May and summer graduates should apply by December 1.

¹ Grade point average requirements for some programs will be considerably higher than 2.00. Re-entering students may be required to earn credits in excess of the 120 needed for graduation in any curriculum in order to replace credits earned in courses in which the content has changed substantially in recent years. Each case will be judged on its own merit.

² The grade point average recorded at the time the degree is awarded will not be affected by future enrollment.

No degree will be awarded unless all requirements are fulfilled and recorded within 30 days after the official ending date of each term.