Biology Major: Conservation Biology Concentration -Bachelor of Arts (BA)

Major requirements

(All colleges, excluding teacher certification programs)

39 credits (67-70 total credits including CHM, MTH, and GEO requirements)

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

Code	Title	Credits
Core		
BIO 105	General Biology	4
BIO 203	Organismal Biology	4
BIO 291	Advancing Biological Science	2
BIO 306	Genetics	4
BIO 307	Ecology	3
BIO 315	Cell Biology	4
or MIC 230	Fundamentals of Microbiology	
BIO 419	Quantitative Methods in Ecology	3
Electives		
Select 15 credits	s of elective from the following:	15
BIO 302	Introductory Plant Identification	
BIO 304	Plant Biology	
BIO 308	Conservation Biology	
BIO 320	Forest Pathology	
BIO 321	Ornithology	
BIO 337	Plant Physiology	
BIO 341	Limnology	
BIO 401	Comparative Vertebrate Anatomy	
BIO 404	Plant Systematics and Evolution	
BIO 405	Aquatic and Wetland Vascular Plants	
BIO 406	Parasitology	
BIO 412	Mycology	
BIO 414	Freshwater Invertebrate Zoology	
BIO 420	Applied Mycology	
BIO 422	Ichthyology	
BIO 429	Evolution	
BIO 441	Aquatic Toxicology	
BIO 442	Plant Microbe Interactions	
BIO 444	Entomology	
BIO 446	Animal Behavior	
BIO 447	Standard Methods/Quality Assurance Water Analyses	
BIO 456	Plant Ecology	
BIO 458	Comparative Animal Physiology	
BIO 461	River Navigation and Sampling Techniques	

BIO 464 Stream and Watershed Ecology BIO 476 Ecosystem Ecology BIO 476 Ecosystem Ecology BIO 488 Mammalogy BIO 499 Independent Research (up to two credits may apply) MIC 230 Fundamentals of Microbiology MIC 350 Bacterial Diversity MIC 434 Aquatic Microbial Ecology Chemistry requirement Select three semesters of chemistry, including: 15-18 CHM 103 General Chemistry I And one of the organic chemistry options: Option A (6 credits) 1 CHM 300 Fundamental Organic Chemistry Laboratory Option B (7 credits) CHM 301 Grapic Chemistry Theory I & 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 305 and Organic Chemistry Theory II & CHM 306 Arganic Chemistry Theory II & CHM 307 Organic Chemistry Theory II & CHM 308 Arganic Chemistry Theory II & CHM 309 Arganic Chemistry Theory II & CHM 301 Arganic Chemistry Theory II & CHM 302 And Organic Chemistry Theory II & CHM 303 Arganic Chemistry Theory II & CHM 304 And Organic Chemistry Theory II & CHM 305 And Organic Chemistry Theory II & CHM 306 And Organic Chemistry Theory II & CHM 307 And Organic Chemistry Laboratory Math requirement Select eight credits of mathematics including the following: 8 STAT 145 Elementary Statistics or MTH 265 Mathematical Models in Biology MTH 175 Applied Calculus or MTH 207 Calculus I Conservation biology requirement Select a minimum of five credits of conservation biology support courses, including one of the following: CHM 311 Analytical Chemistry CHM 312 Atmospheric Chemistry CHM 313 Environmental Chemistry Laboratory Option B: Select two of the following: GEO 305 Geographic Information System and Science II GEO 485 Geographic Information System and Science III GEO 485 Geographic Information System and Science III GEO 485 Geographic Information System and Science III Option C: Select two of the following: CS 120 Software Design I CS 220 Software Design I CS 220 Software Design I STAT 445 Correlation and Regression Analysis STAT 446 Correla			
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CHM 413 Environmental Chemistry Laboratory Option B: Select two of the following: GEO 305 Geographic Information Systems and Science I GEO 405 Geographic Information System and Science II GEO 415 Remote Sensing of the Environment I GEO 485 Geographic Information System and Science III Option C: Select two of the following: CS 120 Software Design I CS 220 Software Design II STAT 305 Statistical Methods STAT 445 Correlation and Regression Analysis STAT 446 Analysis of Variance and Design of Experiments STAT 447 Nonparametric Statistics STAT 448 Operations Research	CHM 312	Atmospheric Chemistry	
Option B: Select two of the following: GEO 305 Geographic Information Systems and Science I GEO 405 Geographic Information System and Science II GEO 415 Remote Sensing of the Environment I GEO 485 Geographic Information System and Science III Option C: Select two of the following: CS 120 Software Design I CS 220 Software Design II STAT 305 Statistical Methods STAT 445 Correlation and Regression Analysis STAT 446 Analysis of Variance and Design of Experiments STAT 447 Nonparametric Statistics STAT 448 Operations Research	CHM 412	Aquatic and Soil Chemistry	
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Option C: Select two of the following: CS 120 Software Design I CS 220 Software Design II STAT 305 Statistical Methods STAT 445 Correlation and Regression Analysis STAT 446 Analysis of Variance and Design of Experiments STAT 447 Nonparametric Statistics STAT 448 Operations Research	GEO 415	-	
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STAT 446 Analysis of Variance and Design of Experiments STAT 447 Nonparametric Statistics STAT 448 Operations Research			
STAT 447 Nonparametric Statistics STAT 448 Operations Research			
STAT 448 Operations Research			
		•	
Total Credits 67		Operations Research	
	Total Credits		67

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

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 (https://catalog.uwlax.edu/undergraduate/ generaleducation/)
- · College core (p. 2)
- · Baccalaureate degree requirements (p. 2)

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

B.S. and B.A. students graduating from the College of Science & Health are required to take:

- two MTH/STAT courses or one MTH/STAT course and one CS course from the General Education: Quantitative Reasoning Category (GEN ED 1004); and
- two courses selected from the General Education: Experiential Science Category (GEN ED 1008) and/or from BIO 203, BIO 304, BIO 210, CHM 104, GEO 221, GEO 222, PHY 104 or PHY 204. One of the two courses must be from a department outside of the student's major department.

 apply by May 1. May and summer graduates should apply by December 1.

 Grade point average requirements for some programs will be considerably higher than 2.00. Re-entering students may be reconsiderably higher than 2.00. Re-entering students may be reconsiderably higher than 2.00.

Notes: Mathematics courses can be pairs, i.e. MTH 150 and MTH 151.

For the Bachelor of Arts degree, in addition to all other College of Science and Health core requirements, students must complete a major from the college and proficiency in a world language at the 202-level or demonstrate English language proficiency for non-native speakers of English. Contact the CSH Dean's Office for eligibility and regulations.

Students must also complete one of the following options. It is recommended that courses are selected in consultation with your advisor.

- Complete a minor in the College of Arts, Social Sciences, and Humanities/School of Visual and Performing Arts; or
- Complete two certificates in the College of Arts, Social Sciences, and Humanities/School of Visual and Performing Arts with at least 12 combined credits at the 300/400 level; or
- 3. Complete an individualized option, consisting of 15 credits.
 - These courses must be from the College of Arts, Social Sciences, and Humanities/School of Visual and Performing Arts.
 - b. At least 9 credits must be earned at the 300/400 level.
 - General education courses may apply provided they are not being used to fulfill minimum general education requirements.
 - d. Internship credits may not count toward the individualized option.

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.
- 4. Earn a minimum of 120 semester credits with at least a 2.00 cumulative GPA. $^{1,\,2}$
- 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, in each major and minor (and concentration or emphasis, if selected).
- A minimum of 30 semester credits in residence at UWL is required for graduation. (See undergraduate resident requirement (https:// catalog.uwlax.edu/undergraduate/academicpolicies/graduation/ #undergraduate-residence-requirement).)
- 8. Submit an application for graduation via the "Submit Intent to Graduate" 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.

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.

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.

Sample degree plan

Below is a sample degree plan that can be used as a guide to identify courses required to fulfill the major and other requirements needed for degree completion. A student's actual degree plan may differ depending on the course of study selected (second major, minor, etc.). Also, this sample plan assumes readiness for each course and/or major plan, and some courses may not be offered every term. Review the course descriptions or the class timetable (http://www.uwlax.edu/records/registration/) for course offering information.

The sample degree plans represented in this catalog are intended for first-year students entering UWL in the fall term. Students should use the Advisement Report (AR) in WINGS (https://wings.uwlax.edu) and work closely with their faculty advisor(s) and college dean's office to ensure declaration and completion of all requirements in a timely manner.

General Education Program

The general education curriculum (Gen Ed) is the common educational experience for all undergraduates at UWL. Sample degree plans include Gen Ed placeholders to ensure completion of the general education requirements. Courses may be rearranged to fit the needs or

recommendations of the student's program of study. Gen Ed courses may be taken during winter term (January between the semesters) and summer to reduce the course load during regular terms (fall and spring). Students should consult with their advisor and/or the college academic services director in their college/school for assistance with course and schedule planning. Refer to the general education requirements (https://catalog.uwlax.edu/undergraduate/generaleducation/) for more specific details.

At least 40 credits of the 120 credits required must be earned at the 300/400-level.

Note: New students and transfer students with less than 12 credits earned are required to take FYS 100 First-Year Seminar (3 cr.) during one of their first two semesters at UWL.

This sample degree plan does not establish a contractual agreement. It identifies the minimum requirements a student must successfully complete, to qualify for a degree, in a format intended to assist the student in planning their academic career. Actual degree plans may differ.

rear r		
Fall Credits Spring		Credits
BIO 105 (Gen Ed 1008 Experiential Science)	4 BIO 203	4
CST 110 (Gen Ed 1003 Spoken Literacy)	3 CHM 103 (CSH Core - Gen Ed Experiential Science not BIO)	5
MTH 207 or 175 (Gen Ed 1004 Quantitative Reasoning)	4 Gen Ed 1009 Social and Behavioral Studies	3
FYS 100 (Gen Ed 1001 First- Year Seminar)	3 ENG 110 (Gen Ed 1002 Written Literacy)	3
	14	15

Year 2	
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Fall	Credits Spring	Credits
BIO 291	2 CHM 300	4
BIO 307	3 CHM 302	1
STAT 145 or MTH 265 (CSH Core)	4 BIO 306	4
CHM 104	5 Gen Ed 1013 Cultures of Our World (202-Level Language CSH BA Core)	4
	Gen Ed 1005 Ethnic Diversity	3
	1/	16

Year 3

Fall	Credits Spring	Credits
BIO Elective from list	3 BIO 315 or MIC 230	4
Environmental Support Course (see list)	3 BIO Elective from list	4
CSH Core (300/400 CASSH elec) or CASSH Minor	3 Environmental Support Course (see list)	3
Gen Ed 1010 Stories We Tell	3 Gen Ed 1006 Mind and Body	3
Gen Ed 1011 Pasts That Define Us	3 Gen Ed 1012 Planet That Sustains Us	3
	15	17

Year 4

Fall	Credits Spring	Credits
BIO 419	3 BIO Elective (400 level from list)	3
BIO Elective from list	3 BIO Elective from list	3
Gen Ed 1007 Arts and Aesthetics	2 Gen Ed 1007 Arts and Aesthetics	2
CSH Core (300/400 CASSH elec) or CASSH Minor	3 CSH Core (300/400 CASSH elec) or CASSH Minor	3
CSH Core or CASSH Minor ¹	3 CSH Core or CASSH Minor ¹	3

University Elective	1	
	15	14

Total Credits: 120

See CSH BA Core Requirements (https://catalog.uwlax.edu/ undergraduate/scienceandhealth/#Core) for information on completing the individualized option. 300/400 requirements for graduation may be impacted.