Biology Major - Bachelor of Arts (BA)

Major requirements

(All colleges, excluding teacher certification programs)

39 credits (58 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.

Select one upper level (300/400) lab component

1-4

BIO 302 Introductory Plant Identification
BIO 303 Vertebrate Form and Function
BIO 304 Plant Biology
BIO 312 Human Anatomy and Physiology I
BIO 313 Human Anatomy and Physiology II
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 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
1. Fulfill the general education requirements.
2. Complete at least one ethic 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. At least 40 credits must be earned in 300/400 (senior college) level courses. Courses earned at the 100/200 level that transferred to UW-L as 300/400 level courses do not apply to this requirement nor do courses from two-year schools.
5. Complete major and minor requirements with at least a 2.00 GPA in each major and minor (and concentration or emphasis, if selected).
6. A minimum of 30 semester credits in residence at UW-L is required for graduation. (See undergraduate resident requirement (http://catalog.uwlax.edu/undergraduate/academicpolicies/graduation/undergraduate-residence-requirement/).)
7. File a completed “Apply for Graduation” form via 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 file by May 1. May and summer graduates should file 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.

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 the courses required to complete the major and other requirements needed for degree completion. The actual degree plan may differ depending on the course of study selected (second major, minor, etc.). This sample plan also assumes readiness for each course and/or major plan. Actual degree plans may differ. Some courses may not be offered every term. Review course descriptions or the class timetable for course offering information.

The sample degree plans represented in this catalog are intended for first-year students entering UW-L in the fall term. Students should use the Advisement Report (AR) in WINGS (https://wings.uwlax.edu/psp/cprod/?cmd=login&languageCd=ENG) 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
General education (Gen Ed) is the common educational experience for all undergraduates at UW-L. Sample degree plans include Gen Ed placeholders to ensure completion of the general education curriculum. 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). Consult with your advisor and/or the assistant to the dean in your college for assistance with course and schedule planning. Refer to the general education requirements (http://
catalog.uwlax.edu/undergraduate/generaleducation) for more specific
details.

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

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 plan their academic career.

<table>
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<tr>
<th>Year 1</th>
<th>Fall Credits</th>
<th>Spring Credits</th>
</tr>
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<tbody>
<tr>
<td>BIO 105 (Gen Ed Natural Lab Science)</td>
<td>4</td>
<td>ENG 110 or 112 (Gen Ed Literacy Written) 3</td>
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<tr>
<td>MTH 150 (Gen Ed Math)</td>
<td>4</td>
<td>Gen Ed Self &amp; Society 3</td>
</tr>
<tr>
<td>CST 110 (Gen Ed Literacy-Oral)</td>
<td>3</td>
<td>CHM 103 (Gen Ed Natural Lab Science) 5</td>
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<td>HIS 101, 102, or ARC 200 (Gen Ed World HIS)</td>
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<td>BIO 203 4</td>
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<tr>
<td>Gen Ed Arts</td>
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<th>Year 2</th>
<th>Fall Credits</th>
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<tr>
<td>MTH 145 (Gen Ed Lang/Logical Systems)</td>
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<td>BIO 306 4</td>
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<tr>
<td>BIO 307</td>
<td>3</td>
<td>CHM 300 5</td>
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<tr>
<td>CHIM 104</td>
<td>5</td>
<td>Gen Ed Minority Cultures 3</td>
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<tr>
<td>Gen Ed Arts</td>
<td>2-3</td>
<td>202-level Language (SAH BA Core) 4</td>
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<tr>
<th>Year 3</th>
<th>Fall Credits</th>
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<tbody>
<tr>
<td>BIO Elective (300/400 lab)</td>
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<td>BIO Elective</td>
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<td>Gen Ed Global Studies 3</td>
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<tr>
<td>Gen Ed Hum-Lit</td>
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<td>Gen Ed Health &amp; Well Being 3</td>
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<tr>
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<td>BIO Elective</td>
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<td>BIO 491 1</td>
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<td>University Elective</td>
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