SCIENCE TEACHING, BIOLOGY EMPHASIS COMPREHENSIVE MAJOR

Teaching (Code 241-004)

University Requirements

GRADUATION REQUIREMENTS FOR BACCALAUREATE DEGREE

Credit Requirements

Minimum total for graduation  
Upper division credits (courses numbered 300 and higher)  
Liberal Education Core  
Academic Concentrations  
Grade Point Requirements  
Total  
Resident  
Major  
Minor  
Certificate

2.00 average
2.00 average
2.00 average
2.00 average
2.00 average
25 percent of credits

Procedures Required for Graduation

Obtain admission to the degree program and/or the College offering it.
Apply for graduation on CampS.

Applicability of Credits Toward Graduation

Junior College or Two-Year College Credits. A maximum of 72 semester credits earned in a junior college or two-year college will be accepted as degree credits at UW-Eau Claire.

Extension Credits. Credits earned in credit outreach courses offered by UW-Eau Claire are treated as resident credits. Credits earned in extension courses offered by other units of the University of Wisconsin System are treated as transfer credits. All other (non-UW) extension and correspondence credits are normally limited to one-fourth of the total required for graduation from any curriculum.

WTCS Credits. A maximum of 72 semester credits earned in college parallel programs at Madison Area Technical College, Milwaukee Area Technical College, Nicolet Area Technical College, or Chippewa Valley Technical College may be accepted as degree credits at UW-Eau Claire. A set number of general education courses will be accepted from other technical schools. Occupational and technical courses may also be considered for transfer if the quality and content of the course work from the technical college is judged to be comparable to course work at UW-Eau Claire. Refer to the Transfer Credit Wizard (https://my.uwec.edu/psp/PUBLIC/EMPLOYEE/HRMS/c/EAU_SS_CUSTOM.EAU_TRNCRDWZ.GBL) or contact the UW-Eau Claire Admissions Office for information about the current transfer policy.

USAFI Credit. UW-Eau Claire will accept up to 32 semester credits for work done through the United States Armed Forces Institute, under the provision for non-UW correspondence credit (see Extension Credits above).

Activity Credit (band, chorus, drama, KINS 100-184 courses) Students may count toward graduation no more than one credit of KINS 110-184 courses. Students may count toward graduation no more than four credits earned in any single activity course and no more than 12 credits resulting from any combination of activity courses (excluding KINS 110-184 courses).

Other Restricted Credits. For other University restrictions, see the following: Cooperative Education; Credit by Examination; Satisfactory/Unsatisfactory Registration; Transfer of Credits. College or departmental restrictions may also be placed on Independent Study (399-499 courses), Directed Study (395-495), and other types of credits.

APPLICABILITY OF CREDITS TOWARD GRADUATION

<table>
<thead>
<tr>
<th>Credit Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Satisfactory/Unsatisfactory</td>
</tr>
<tr>
<td>Total degree credit</td>
</tr>
<tr>
<td>Major, Standard</td>
</tr>
<tr>
<td>Major, Comprehensive</td>
</tr>
<tr>
<td>Minor</td>
</tr>
<tr>
<td>Credit by Examination</td>
</tr>
<tr>
<td>Total degree credit</td>
</tr>
<tr>
<td>Major or minor</td>
</tr>
<tr>
<td>Two-Year College Credits</td>
</tr>
<tr>
<td>Total degree credit</td>
</tr>
<tr>
<td>Activity credit (band, chorus, drama, KINS 100-184)</td>
</tr>
<tr>
<td>Total KINS 100-184</td>
</tr>
<tr>
<td>Total Band, chorus, drama</td>
</tr>
<tr>
<td>Single course band, chorus, drama</td>
</tr>
<tr>
<td>Extension credits</td>
</tr>
<tr>
<td>UW-System</td>
</tr>
<tr>
<td>Other extension/correspondence</td>
</tr>
<tr>
<td>USAFI</td>
</tr>
<tr>
<td>USAFI</td>
</tr>
</tbody>
</table>
Liberal Education Core

The University of Wisconsin-Eau Claire measures learning outcomes to ensure that its graduates have achieved a liberal education and prepared themselves to contribute to a complex society. Upon graduation, each undergraduate will have met the five learning goals of our liberal education core and the 12 learning outcomes they comprise.

LIBERAL EDUCATION CORE REQUIREMENTS

<table>
<thead>
<tr>
<th>Knowledge Goal</th>
<th>36 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge Outcome 1 (K1): Natural Sciences <a href="http://catalog.uwec.edu/undergraduate/attribute-k1/">http://catalog.uwec.edu/undergraduate/attribute-k1/</a></td>
<td>Two (2) learning experiences</td>
</tr>
<tr>
<td>Knowledge Outcome 2 (K2): Social Sciences <a href="http://catalog.uwec.edu/undergraduate/attribute-k2/">http://catalog.uwec.edu/undergraduate/attribute-k2/</a></td>
<td>Two (2) learning experiences</td>
</tr>
<tr>
<td>Knowledge Outcome 3 (K3): Humanities <a href="http://catalog.uwec.edu/undergraduate/attribute-k3/">http://catalog.uwec.edu/undergraduate/attribute-k3/</a></td>
<td>Two (2) learning experiences</td>
</tr>
<tr>
<td>Knowledge Outcome 4 (K4): Fine Arts <a href="http://catalog.uwec.edu/undergraduate/attribute-k4/">http://catalog.uwec.edu/undergraduate/attribute-k4/</a></td>
<td>One (1) learning experience</td>
</tr>
</tbody>
</table>

Skills Goal

| Skills Outcome 1 (S1): Written and Oral Communication [http://catalog.uwec.edu/undergraduate/attribute-s1/](http://catalog.uwec.edu/undergraduate/attribute-s1/) | Two (2) learning experiences |
| Skills Outcome 2 (S2): Mathematics [http://catalog.uwec.edu/undergraduate/attribute-s2/](http://catalog.uwec.edu/undergraduate/attribute-s2/) | One (1) learning experience |
| Skills Outcome 3 (S3): Creativity [http://catalog.uwec.edu/undergraduate/attribute-s3/](http://catalog.uwec.edu/undergraduate/attribute-s3/) | One (1) learning experience |

Responsibility Goal

| Responsibility Outcome 1 (R1): Equity, Diversity, and Inclusivity [http://catalog.uwec.edu/undergraduate/attribute-r1/](http://catalog.uwec.edu/undergraduate/attribute-r1/) | Two (2) learning experiences |
| Responsibility Outcome 2 (R2): Global Perspectives [http://catalog.uwec.edu/undergraduate/attribute-r2/](http://catalog.uwec.edu/undergraduate/attribute-r2/) | One (1) learning experience |

Integration Goal

Integration Outcome 1 (I1): Integration [http://catalog.uwec.edu/undergraduate/attribute-i1/](http://catalog.uwec.edu/undergraduate/attribute-i1/) | Two (2) learning experiences |

Service-Learning Goal

Service-Learning [http://catalog.uwec.edu/undergraduate/attribute-slr](http://catalog.uwec.edu/undergraduate/attribute-slr) | 30 hours |

College Degree Requirements

University Requirements in Teacher Education in the College of Education and Human Sciences

College Requirements for Teacher Education

All candidates for teacher education baccalaureate degrees must also meet the following:

1. Liberal Education requirements in the College of Education and Human Sciences.
2. Grade point requirements:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident</td>
<td>2.75 average</td>
</tr>
<tr>
<td>Total</td>
<td>2.75 average</td>
</tr>
<tr>
<td>Major</td>
<td>2.75 average</td>
</tr>
<tr>
<td>Minor for certification only</td>
<td>2.75 average</td>
</tr>
</tbody>
</table>

3. Residency requirements:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Total</td>
<td>30 credits</td>
</tr>
<tr>
<td>Senior Year</td>
<td>23 credits</td>
</tr>
<tr>
<td>Major, in upper division courses</td>
<td>12 credits</td>
</tr>
<tr>
<td>Comprehensive Major, in upper division courses</td>
<td>21 credits</td>
</tr>
</tbody>
</table>

4. Criteria and requirements for Professional Programs and for Admission to the Professional Semester.

5. Specific requirements of programs offered in the College of Education and Human Sciences. (See the departmental sections of this catalog.)

Teaching Licensure Requirements - Grades 4-12

Program Options B and C

These program options are organized around content majors and education courses and are designed to prepare teachers for grades 4-12 teaching or for grades K-12 teaching in selected areas. Each program requires the student to complete:

1. a comprehensive major (at least 60 credits) or a standard major (at least 36 credits) plus one of the following: another standard major (at least 36 credits), or a minor (at least 24 credits), or a certificate (12-18 credits). Students choosing another major or minor may choose from the approved majors and minors listed in the table below, but are not required to do so. Students pursuing a K-12 licensure are not required to elect a second plan that leads to certification.
2. a professional sequence consisting of teaching methods and related courses.
Students are assigned an education academic advisor and a faculty advisor through the content major department.

**Option B: Grades 4-12**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES 212</td>
<td>Exploring Schooling K-12</td>
<td></td>
</tr>
<tr>
<td>ES 312</td>
<td>General Methods of Teaching</td>
<td></td>
</tr>
<tr>
<td>ES 317</td>
<td>Middle Level Methods and Curriculum</td>
<td></td>
</tr>
<tr>
<td>ES 318</td>
<td>Teacher Assisting</td>
<td></td>
</tr>
<tr>
<td>ES 328</td>
<td>Disciplinary Literacy and Study Strategies</td>
<td></td>
</tr>
<tr>
<td>ES 385</td>
<td>Social Foundations: Human Relations</td>
<td></td>
</tr>
</tbody>
</table>

**Prescribed special methods course(s) (see approved majors and minors below)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES 445</td>
<td>Student Teaching in Middle Level Education and Student Teaching in Secondary Education</td>
<td>5-10</td>
</tr>
<tr>
<td>or ES 446 &amp; ES 470</td>
<td>Internship Teaching in Middle Level Education</td>
<td></td>
</tr>
<tr>
<td>or ES 475</td>
<td>Internship Teaching in Secondary Education</td>
<td></td>
</tr>
<tr>
<td>ES 490</td>
<td>Historical, Legal, and Philosophical Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>ES 497</td>
<td>Field Experience Seminar</td>
<td>2</td>
</tr>
<tr>
<td>SPED 300</td>
<td>Inclusive Practices for Secondary Educators</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Minors</th>
<th>Code</th>
<th>Prescribed Methods Course</th>
<th>Additional Requirements</th>
<th>Praxis II or ACTFL Content Test Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coaching</td>
<td>971-403</td>
<td>KINS 492</td>
<td>no addt'l exam</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>180-407</td>
<td>ES 357</td>
<td>See department for ETS exam number</td>
<td></td>
</tr>
</tbody>
</table>

**Admission Requirements**

**Admission to Education Programs**

**Admission to the Major**

Formal application to the professional education program must be made by October 1 for spring admission or March 1 for fall admission. In order to submit an application to an Education Program, students must satisfy all of the requirements listed below:

1. Approval by the appropriate department in the College of Education and Human Sciences. See Department of Education for Equity and Justice (http://catalog.uwec.edu/undergraduate/education-human-sciences/education-for-equity-justice/) and Special Education and Inclusive Practices (http://catalog.uwec.edu/undergraduate/education-human-sciences/special-education-inclusive-practices/) sections of this catalog for criteria to be considered in making these recommendations.

2. Pre-education status.

3. Students must have attained at least Sophomore Status.

4. Minimum total GPA of 2.5. Admission is competitive; thus the minimum GPA does not assure admission to a professional program in education.

5. Met the University Writing Requirement (complete WRIT 114, WRIT 116, WRIT 118, or WRIT 120 or the equivalent earning a C or better). See the Department of Education for Equity and Justice (http://catalog.uwec.edu/undergraduate/education-human-sciences/education-for-equity-justice/) and Special Education and Inclusive Practices (http://catalog.uwec.edu/undergraduate/education-human-sciences/special-education-inclusive-practices/) sections of this catalog for criteria to be considered in making these recommendations.

6. Met the University Mathematics requirements (complete one college-level math course earning C or better).

7. Good academic standing.

8. Complete an introductory education course with a field placement (e.g., SPED 205, SEIP 208, ES 203, ES 212 or the equivalent) with a grade of B- or better.

9. Specific department criteria are found under the Department of Education for Equity and Justice (http://catalog.uwec.edu/undergraduate/education-human-sciences/education-for-equity-justice/) and Special Education and Inclusive Practices (http://catalog.uwec.edu/undergraduate/education-human-sciences/special-education-inclusive-practices/) sections of this catalog for criteria to be considered in making these recommendations.

**Application Procedure**

Formal application to the professional program must be made. The number of students admitted to a program is limited by resources available. Not everyone who applies can be guaranteed admission. See the appropriate section of this catalog for criteria upon which the departmental recommendation will be based. Note that minimum criteria for a department may exceed the minimum criteria listed above.

Students who do not meet all the criteria listed above or who do not receive a favorable departmental recommendation may reapply during a later application period.

**Special or Transfer Students**
Special students and transfer students who desire to be admitted to the Teacher Education Program in the College of Education and Human Sciences should inform the Admissions Office upon application for admission to the University. They should indicate their area of interest. These students are expected to have a minimum GPA of 2.5.

**Admission to the Teaching Professional Semester (Student Teaching)**

**Admission to the Professional Education Semester**

The “professional semester” is defined as the senior semester in which a student is enrolled in the field experience of student teaching or internship.

**Filing Notice of Intent to Student Teach Applications**

Students who plan to enter the professional semester during the fall semester of the next academic year must file a Notice of Intent to Student Teach with the Teacher Education Program office in the fall. Students who plan to enter the professional semester during the spring semester of the next academic year must file a Notice of Intent to Student Teach with the Teacher Education Program office in the spring. Information concerning the Notice of Intent to Student Teach will be advertised widely and posted across campus each semester with an associated due date.

Students are encouraged to submit their Notice of Intent to Student Teach by the announced due date. Considerable time is required to process each notice—that is, to determine eligibility, to make arrangements with schools for an appropriate field experience assignment, and to allow for introductions, orientations, and, in some cases, interviews. Students who file on time will benefit by the careful consideration that can be given to their requests; the later a notice is received, the fewer the placement assignments and choices still available will be. Failure to file a Notice of Intent to Student Teach on time may result in a delay of the professional semester.

**Transfer and Special Students**

No transfer or special student can enter the professional semester until after a full semester of residence and after earning a minimum of 15 credits at UW-Eau Claire. Senior transfer students enrolling in September must file an application for admission to the professional semester by December 1 for the following fall.

**Criteria for Admission**

No application for admission to the professional semester will be processed in the case of transfer and special students unless a full semester of residence and after earning a minimum of 15 credits at UW-Eau Claire. Senior transfer students enrolling in September must file an application for admission to the professional semester by December 1 for the following fall.

Factors to be considered in the application for admission to the professional semester are:

1. Criteria for admission to a professional program have been met.
2. Good academic standing, as defined in the catalog section on Academic Standing and Progress.
3. A minimum of 90 credits completed prior to the professional semester.
4. Completion of courses which are prerequisite to field experience. For each program, a list of prerequisite courses is available in the Teacher Education Program Office, Centennial 3102.
5. Approval of the major and minor department(s). Departments may have separate criteria they use to determine approval.
6. Resident and total GPAs of at least 2.75; GPAs of at least 2.75 in the major(s) and minor(s) intended for certification. All college-level courses attempted by the student are included when major, minor, and total GPAs are determined for admission to the professional semester and for graduation.
7. Completion of the 30 hour Human Relations Fieldwork requirement.
8. Evidence of freedom from tuberculosis. Tests are provided by Student Health Services or results of tests must be provided by the student when filing for the professional semester.
9. Approval by the appropriate departments in the Colleges of Education and Human Sciences and Arts and Sciences.
10. Completion of required criminal background check.

**Deadline for Meeting Criteria**

For placements in the fall semester, criteria for which the student is responsible (GPA, TB test, and criminal background check) must be met by March 1 of the preceding semester.

For placements in the spring semester, these criteria must be met by October 1 of the preceding semester.

For placements in the summer session, these criteria must be met by February 1 of the preceding semester.

Failure to meet criteria on time may result in a delay of the professional semester.

**Licensure to Teach**

**Criteria for Recommendation for Licensure:**

1. Completion of a baccalaureate degree.
2. Completion of an approved teacher education major, minor, or certificate.
3. A 2.75 or higher GPA in the major and minor (where certifiable) and in the combination of all course work in the major, minor (where certifiable), and professional education courses exclusive of student teaching. All college-level courses attempted by the student except student teaching are included when major, minor, and professional education GPAs are determined for recommendation for licensure.
4. Completion of student teaching courses with a mark of S, or grade of B- or above in departments where a letter grade is assigned.
5. Content area proficiency through one of the following:
   - Students will earn a minimum 3.0/4.0 GPA in content courses OR through obtaining a passing score on the appropriate Praxis II/ACTFL exam.
   - For students who neither meet the minimum GPA requirement nor pass the appropriate Praxis II/ACTFL exam after at least two attempts, a content portfolio can be submitted which parallels the content evaluated on the Praxis II/ACTFL exam. The portfolio may only be submitted once. Foreign language majors and minors must earn passing scores on the ACTFL. The standardized examination and passing score shall be determined by the State Superintendent. All Elementary-Middle and Special Education majors and minors, and Early Childhood majors must earn a passing score on the FORT.

**Wisconsin Application**

College of Education and Human Sciences graduates who desire to teach in Wisconsin, will apply for licensure using the WI Department of Public Instruction’s (DPI), ELO (Electronic Licensing Online) by following all steps listed on the site including fingerprinting if applicable.

Upon completion of all program requirements and University and WI Department of Public Instruction teaching requirements, information will be forwarded to WI DPI verifying this completion (including the completion of all required tests), a degree and any add-on certifications that have been awarded, and certifications the teaching candidates are eligible for with licensure. Candidates will then apply for their Initial License.
Out-of-state Applications
It is recommended that graduates seeking licensure to teach in states other than Wisconsin request application forms and instructions from the Department of Education of the state in which licensure is desired. Certification requirements vary by state. Inquiry early in the period of professional preparation is advisable. In most cases, an official transcript of credits must accompany the completed application form; additional tests or course work may be required. Therefore, it is imperative to check requirements of other states. Wisconsin and most other states require institutional endorsement. In general, candidates will be able to obtain licenses in other states; however, these licenses may be issued with stipulations. It is the student’s responsibility to understand the licensing requirements of other states. UW-Eau Claire programs are designed to meet the requirements in Wisconsin only.

Major Requirements
Teaching (Code 241-004)
The comprehensive major in Science Teaching, Biology Emphasis prepares education students to teach all science courses in a regular education setting grades 4 through 12.

Advisors: Robert Duerst

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 to 74 credits, including:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Biology Emphasis Core** 25 - 27

- BIOL 221 Foundations of Biology I 4
- BIOL 222 Foundations of Biology II 3
- BIOL 223 Foundations of Biological Inquiry 2
- BIOL 308 Evolution 3
- BIOL 323 Genetics 3
- BIOL 496 Student Academic Apprenticeship 1-2

**Additional Requirements** 9

- ES 360 Teaching Science in Grades 4-12 3
- ES 385 Social Foundations: Human Relations 3
- GEOG 178 Conservation of the Environment
- BIOL 180 Environmental Biology and Conservation

**Choose two: (9 - 10 credits)**

- BIOL 318 Plant Form and Function 4
- BIOL 319 Animal Form and Function 5
- BIOL 361 Biology of Microorganisms 5

**Physics Emphasis Core** 9 - 18

**Choose one option:**

- Option 1 (9 credits)
  - PHYS 211 General Physics
  - PHYS 212 General Physics

- Option 2: (18 credits)
  - PHYS 231 University Physics I 5
  - PHYS 232 University Physics II 5

**Chemistry Core** 6-9

**Choose one option:**

- Option 1 9
  - CHEM 105 General Chemistry I Lecture
  - CHEM 106 General Chemistry I Laboratory
  - CHEM 109 General Chemistry II with Lab

- Option 2 6
  - CHEM 115 Chemical Principles

**Earth & Space Science Core** 11

- PHYS 226 Astronomy-Solar System 4

**and choose one: (4 credits)**

- GEOL 106 Earth Science
- GEOL 110 Physical Geology
- GEOL 115 Environmental Geology
- GEOL 118 Societal Issues in Earth Science

**and choose one: (3 credits)**

- GEOL 301 Earth Resources and Sustainability
- GEOL 304 Global Environmental Change
- GEOL 308 Water Resources

Minimum total for the baccalaureate degree = 120 credits

**Grades 4-12 and Grades K-12 Liberal Education Requirements are listed in the table below**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>K2 (Social Sciences) 3</td>
<td></td>
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</tbody>
</table>
- PSYC 260 Educational Psychology 3
- AND another learning experience

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3 (Creativity) 3</td>
<td></td>
</tr>
</tbody>
</table>
- ES 497 Field Experience Seminar (included in major) 2
- AND another learning experience

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1 (Equity, Diversity, Inclusivity) 3</td>
<td></td>
</tr>
</tbody>
</table>
- ES 385 Social Foundations: Human Relations (included in major) 3
- AND another learning experience

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>I1 (Integration) 2</td>
<td></td>
</tr>
</tbody>
</table>
- ES 497 Field Experience Seminar (included in major) 2
- AND another learning experience

Program Learning Outcomes
Students completing this program will be expected to meet the following learning outcomes:

- Demonstrate an understanding of foundational biological principles in the areas of cell/molecular biology, genetics, evolution, ecology, diversity of life, and structure & function of organisms.
- Understand and apply basic research methods in biology including research design, data analysis, and communication.
• Work collaboratively to explore and solve problems.
• Apply theories, concepts, findings, and methods of biology to problems/ issues in society.
• Understand how biological theories, concepts, findings, and methods relate to other disciplines.
• Demonstrate competence in mathematics, statistics, and computer technology as tools for revealing and characterizing complex patterns in biological systems.
• Understand and apply scientific reasoning and methods in learning science and/or in conducting biological research.
• Communicate scientific ideas and results in a variety of formats.

Sample Degree Plan
Science Teaching, Biology Emphasis
Comprehensive Major (B.S.)

The following is a sample degree plan, based on the 2022-2023 catalog. It is based on the 120-credit graduation requirement and assumes no transferred credits, no requirements waived by placement tests, no courses taken in the summer or winter, no repeated courses, and no remedial courses that may be required. This sample degree plan is intended for first-year students entering UW-Eau Claire in the fall semester. Your own degree plan may differ depending on the course of study selected (second major, minor, etc.). UW-Eau Claire cannot guarantee all courses will be offered as shown, but will provide a range of courses that may enable prepared students to fulfill their requirements in a timely period. This sample degree plan is just a guide. Please consult your advisor, your degree audit, and the catalog to create your own degree plan. Note: In order to earn the required minimum of 120 credits for the degree in four years, you should plan to take 15 credits each semester or 30 credits each year.

To earn a degree, students must fulfill all University Graduation Requirements, including the Liberal Education (LE) Core. LE Core course work in the following sample degree plan uses abbreviations such as LE-K1, LE-S2, LE-R3, and LE-I1 to represent the learning outcomes students will meet via completion of their liberal education course work. Please click here for a description of the Liberal Education Core outcomes and requirements. Note that the LE Core may be completed through both course and non-course experiences.

FIRST YEAR
FIRST SEMESTER
CHEM 105 General Chemistry I Lecture 5
& CHEM 106 and General Chemistry I Laboratory (LE-K1)
MATH 109 Algebra for Calculus (LE-S2) 4
SECOND SEMESTER
CHEM 109 General Chemistry II with Lab (LE-K1) 4
BIOL 221 Foundations of Biology I 4
SOME TIME IN THE FIRST YEAR
Writing Requirement: 2-5
WRIT 114 Intensive Blugold Seminar in Critical Reading and Writing (LE-S1 - 5 credits)
or
WRIT 116 Blugold Seminar in Critical Reading and Writing (LE-S1 - 5 credits)
or
WRIT 118 Accelerated Blugold Seminar in Critical Reading and Writing (LE-S1 - 2 credits)

SECOND YEAR
FIRST SEMESTER
BIOL 222 Foundations of Biology II 3
BIOL 223 Foundations of Biological Inquiry 2
SECOND SEMESTER
BIOL 323 Genetics 3
SOME TIME IN THE SECOND YEAR
Conservation of The Environment (R3,I1) 3
BIOL 180 Environmental Biology and Conservation
or
GEOG 178 Conservation of the Environment (LE-S1)
ES 212 Exploring Schooling K-12 2
LE Option Elective 3
LE Option Elective 3
LE Option Elective 3
General Science Course - See course options 3-5
General Science Course - See course options 3-5
TOTAL SECOND YEAR 28-32

THIRD YEAR
FIRST SEMESTER
Biology Elective: 4-5
BIOL 318 Plant Form and Function
or
BIOL 319 Animal Form and Function
or
BIOL 361 Biology of Microorganisms
SECOND SEMESTER
BIOL 308 Evolution 3
Biology Elective: 4-5
BIOL 318 Plant Form and Function
or
BIOL 319 Animal Form and Function
or
BIOL 361 Biology of Microorganisms
SOME TIME IN THE THIRD YEAR
PSYC 260 Educational Psychology (LE-S2) 3
ES 385 Social Foundations: Human Relations (LE-R1 DDIV) 3
General Science Course - See course options 3-5
LE Option Elective 3
BIOL 496 Student Academic Apprenticeship 1-2
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES 490</td>
<td>Historical, Legal, and Philosophical Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL THIRD YEAR</strong></td>
<td></td>
<td>27-32</td>
</tr>
<tr>
<td><strong>FOURTH YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ES 360</td>
<td>Teaching Science in Grades 4-12</td>
<td>3</td>
</tr>
<tr>
<td>ES 312 &amp; ES 317 &amp; ES 318 &amp; ES 328</td>
<td>General Methods of Teaching and Middle Level Methods and Curriculum and Teacher Assisting and Disciplinary Literacy and Study Strategies</td>
<td>7</td>
</tr>
<tr>
<td>SPED 300</td>
<td>Inclusive Practices for Secondary Educators</td>
<td>2</td>
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<tr>
<td><strong>SECOND SEMESTER</strong></td>
<td></td>
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<tr>
<td>ES 497</td>
<td>Field Experience Seminar (LE-I1, S3)</td>
<td>2</td>
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<tr>
<td>ES 445</td>
<td>Student Teaching in Middle Level Education</td>
<td>5</td>
</tr>
<tr>
<td>ES 470</td>
<td>Student Teaching in Secondary Education</td>
<td>5</td>
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<tr>
<td><strong>TOTAL FOURTH YEAR</strong></td>
<td></td>
<td>27-29</td>
</tr>
</tbody>
</table>

Minimum total for the baccalaureate degree = 120 credits

**RECOMMENDATIONS FOR HIGH IMPACT PRACTICES (HIPs)**

The University of Wisconsin-Eau Claire encourages all students to participate in High Impact Practices. The following information identifies any specific recommendations that faculty in this major have concerning which HIPs might be most beneficial to students, and any recommendations about when those HIPs best fit into the degree plan. Students should also consult their faculty advisor for information on HIPs. There are many additional high impact opportunities available. Talk to your academic advisor for more information about incorporating HIPs like Study Abroad, Intercultural Immersion, Internship, and/or Student/Faculty Collaborative Research into your time at UW-Eau Claire.

**General Science Course Options**

**Physics Core - 9-18 credits**
- PHYS 211 General Physics (5)
- PHYS 212 General Physics (4)

or
- PHYS 231 University Physics I (5)
- PHYS 232 University Physics II (5)
- MATH 114 Calculus I (4)
- MATH 215 Calculus II (4)

**Earth & Space Science Core - 11 credits**
- Choose 1: GEOL 106 Earth Science (4) or GEOL 110 Physical Geology (4) or GEOL 115 Environmental Geology (4) or GEOL 118 Societal Issues in Earth Science (4)
- Choose 1: GEOL 301 Earth Resources (3) or GEOL 304 Global Environmental Change or GEOL 308 Water Resources (3)
- PHYS 226 Astronomy-Solar System (4)

**Chemistry Core - 9 credits (already included in plan)**
- CHEM 105/106 General Chemistry I
- CHEM 109 General Chemistry II

**Liberal Education (LE) Core Guidance**

**Liberal Education Core (LE Core)**

The LE Core comprises 17 learning experiences across 11 learning outcomes. Students must complete a minimum of 36 credits in courses approved for the LE Core.

- K1 – Natural Sciences; two experiences (one lab science experience is required in K1 or K2).
- K2 – Social Sciences; two experiences (one lab science experience is required in K1 or K2).
- K3 – Humanities; two experiences.
- K4 – Fine Arts; one experience.
- S1 – Written and Oral Communication; two experiences (one experience must satisfy the University writing requirement).
- S2 – Mathematics; one experience (must satisfy the University math competency requirement).
- S3 – Creativity; one experience (can be fulfilled in a student's major).
- R1 – Equity, Diversity, and Inclusivity; two experiences (one experience must meet the UW System Design for Diversity (DD) requirement).
- R2 – Global Perspectives; one experience.
- R3 – Civic and Environmental Issues; one experience.
- I1 – Integration; two experiences (one experience can be fulfilled in a student’s major).
- SL—Service Learning; 30 hours

**Additional LE Core Information**

- Most LE Core learning experiences are course based, and many courses meet more than one learning outcome (e.g., K3 and R2 or K1 and R3).
- Some learning experiences can also be met outside of a traditional course (e.g., undergraduate research (S3), study abroad (I1)).
- S1 – An English placement score that fulfills the University writing requirement fulfills one S1 experience.
- S1 – A foreign Language placement score that qualifies the student to enter the 102 level satisfies one S1 experience.
- S1, R2 – A foreign language placement score that qualifies the student to enter the 202 level satisfies one experience in S1 and the R2 experience.
- S2 – A math placement score that qualifies the student to enter Math 111, 112, 113 or 114 fulfills the S2 experience.
• S3 – Completion of two credits from any approved music ensemble fulfills the S3 experience.

• I1 – Any semester long study abroad program can fulfill one I1 experience.