Welcome to the WFCB major! The following information is provided to help you understand and plan to meet the academic requirements for a Bachelor of Science Degree awarded by the University of California at Davis. Successful completion of the academic requirements involves your active participation in knowing and following the procedures, rules, and restrictions. These are published in the annual UCD General Catalog and in the quarterly Class Schedule and Registration Guide. Both publications are packed with useful information, so do read them! Timely meetings with your faculty adviser, staff adviser, and peer adviser will help you succeed at Davis. Please keep your WFCB Checklist updated and bring it with you to advising meetings.

The catalog year: One of the first and most important things to know is your catalog year. Your catalog year determines the rules and course pattern you must follow in order to graduate. On occasion, changes are made in the requirements that students must satisfy to graduate. To ensure that changes in requirements do not affect your ability to graduate, it is College policy that you may choose to fulfill the University, College and Major requirements in effect at the time you were registered at UC Davis. If you have transferred to UC Davis from a community college, state college, or another university, you may follow the requirements as stated in any UC Davis General Catalog in effect either during the three years immediately preceding your transfer to UC Davis or at the time you first registered at that institution, whichever is most recent. Once you have determined the year of the General Catalog under which you wish to be governed, you must satisfy all of the university, college and major requirements specified in that catalog.

The study plan: Once you have your catalog year in hand (please see your faculty adviser if you are not sure what it would be) you are ready to complete a study plan. A study plan is pretty much what it sounds like: a plan for your time here at UC Davis. You should create a study plan in consultation with your faculty adviser who will be able to guide you in course selection, choosing an area of specialization, and almost anything else major- and/or career-related. Study plans are valuable for three very important reasons. The first is that it will help to ensure you can graduate in a timely manner. The second is that it is a contract between you and the department stating “if you complete this study plan successfully, you will graduate.” Study plans can be modified as often as needed, but must be modified in conjunction with and approved by your faculty adviser. Finally, having a signed study plan on file means that if you find that for some reason you are not able to complete the courses you have planned, because of course time conflicts, course cancellations, or other reasons outside of your control, the department will work with you to find substitutions where needed. This is not always possible if you do not have a signed study plan on file. Study plans should be completed no later than the second quarter of your junior year.

University and GE requirements: While this packet focuses on just your major requirements, you will no doubt need advising on University and General Education requirements. A GE worksheet for both the current GE requirements in effect for most students, and the new GE 3 requirements for incoming freshmen in Fall 2011 forward is included at the end of this packet. These worksheets are for general planning only, and should not be considered official. For more detailed information on completing these requirements, visit the College of Ag Dean’s Office in 150 Mrak Hall. They are available for advising by drop-in and appointment.

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WFCB Bachelors of Science (BS) Requirements

Diagnostic testing: In order to help you plan the appropriate courses and sequence of major-specific coursework, two diagnostic tests are required: mathematics and chemistry. After completing these tests, meet with your faculty adviser to create a study plan.

Calculus Diagnostic Test: Needed in order to enroll in Mathematics 16A.
Chemistry 2A Diagnostic Test: In order to enroll in CHE 2A, you must take the placement exam for both chemistry and pre-calculus. A score of at least 21 on the chemistry placement exam and a score of at least 25 on the pre-calculus exam is needed to enroll in CHE 2A.

Preparatory Subject Matter Requirements

<table>
<thead>
<tr>
<th>Preparatory Subject Matter</th>
<th>Quarter(s) Offered***</th>
<th>Units</th>
<th>Completed</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Written/Oral Expression</td>
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<tr>
<td>University Writing Program 1</td>
<td>Expository Writing</td>
<td>I, II, III, IV</td>
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<tr>
<td>Communication 1</td>
<td>Introduction to Public Speaking</td>
<td>I, II, III, IV</td>
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<tr>
<td>Chemistry</td>
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<tr>
<td>Chemistry 2A</td>
<td>General Chemistry</td>
<td>I, II, IV</td>
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<td>Chemistry 2B</td>
<td>General Chemistry</td>
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<td>Chemistry 8A</td>
<td>Organic Chemistry</td>
<td>I, III, IV</td>
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<td>Chemistry 8B</td>
<td>Organic Chemistry</td>
<td>I, II, IV</td>
<td>4</td>
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<tr>
<td>Biological Sciences</td>
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<tr>
<td>BIS 2A</td>
<td>Introductory Biology</td>
<td>I, II, III, IV</td>
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<tr>
<td>BIS 2B</td>
<td>Introductory Biology</td>
<td>I, II, III, IV</td>
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<td>BIS 2C</td>
<td>Introductory Biology</td>
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<tr>
<td>Mathematics</td>
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<tr>
<td>Mathematics 16A</td>
<td>Short Calculus</td>
<td>I, II, III, IV</td>
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<td>Mathematics 16B</td>
<td>Short Calculus</td>
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<td>Statistics (Choose one of the following)</td>
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<tr>
<td>Statistics 100</td>
<td>Applied Statistics for Bio Sciences</td>
<td>I, II, III, IV</td>
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<tr>
<td>Plant Sciences 120</td>
<td>Applied Statistics in Ag Science</td>
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<td>Physics</td>
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<td>Physics 1A</td>
<td>Principles of Physics</td>
<td>I</td>
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<td>Physics 1B</td>
<td>Principles of Physics</td>
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<td>3</td>
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<tr>
<td>Wildlife &amp; Conservation</td>
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<tr>
<td>WFC 10</td>
<td>Wildlife Ecology and Conservation</td>
<td>I, III</td>
<td>4</td>
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<tr>
<td>WFC 11*</td>
<td>Introduction to Conservation Biology</td>
<td>III</td>
<td>3</td>
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<tr>
<td>WFC 50</td>
<td>Natural History of CA Vertebrates</td>
<td>II</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

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**Course is offered in even years only (2012, 2014, etc.)
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### Depth Subject Matter Requirements

NOTE: Students graduating with this major are required to attain at least a C average (2.0 GPA) in all courses taken at the university in Depth Subject Matter and pass all coursework. See requirements of the College in the UCD General Catalog.

<table>
<thead>
<tr>
<th>Depth Subject Matter</th>
<th>(54-60 Units)</th>
<th>Prerequisites</th>
<th>Qtr(s)***</th>
<th>Units</th>
<th>Grade</th>
<th>Grade Pts</th>
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<tr>
<td><strong>Ecology</strong> (Choose one of the following)</td>
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<tr>
<td>ESP 100 General Ecology</td>
<td></td>
<td>BIS 2A-C; MAT 16A-B; STA 13 recommended</td>
<td>I, II</td>
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<tr>
<td>EVE 101 Introduction to Ecology</td>
<td></td>
<td>BIS 2A-C; MAT 16A-B (or equiv.)</td>
<td>I, II, III, IV</td>
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<tr>
<td><strong>Genetics</strong></td>
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<tr>
<td>BIS 101 Genes and Gene Expression</td>
<td></td>
<td>BIS 2A-C (2C may be concurrent); CHE 8B (may be concurrent)</td>
<td>I, II, III, IV</td>
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<tr>
<td><strong>Evolution</strong></td>
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<tr>
<td>EVE 100 Introduction to Evolution</td>
<td></td>
<td>BIS 2A-C; BIS 101; MAT 16A-C or equiv; STA 13 or 100</td>
<td>I, II, III, IV</td>
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<tr>
<td><strong>Physiology</strong></td>
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<tr>
<td>WFC 130 Physiological Ecology</td>
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<td>EVE 101 or ESP 100 or equivalent</td>
<td>II</td>
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<tr>
<td><strong>Animal Behavior</strong> (Choose one of the following)</td>
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<tr>
<td>NPB 102 Animal Behavior</td>
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<td>BIS 2A-C</td>
<td>II, III, IV</td>
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<tr>
<td>WFC 141** Behavioral Ecology</td>
<td></td>
<td>EVE 101 or ESP 100 or equivalent</td>
<td>II</td>
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<tr>
<td><strong>Conservation Biology</strong></td>
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<tr>
<td>WFC 154 Conservation Biology</td>
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<td>EVE 101 or ESP 100 or equivalent</td>
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<tr>
<td><strong>Population Biology</strong></td>
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<tr>
<td>WFC 122 Population Dynamics and Estimation</td>
<td>MAT16A-B; STA13 or equiv; EVE 101, ESP 100, or equiv</td>
<td>III</td>
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<tr>
<td><strong>Organismal Core</strong> (Choose 3 lecture courses and 2 laboratory courses)</td>
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<tr>
<td>WFC 110 Biology &amp; Conservation of Wild Mammals</td>
<td>BIS 2A-C; EVE 101 or ESP 100 or equivalent</td>
<td>III</td>
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<tr>
<td>WFC 110L Lab in Biology &amp; Conservation of Wild Mammals</td>
<td>WFC 110 (may be concurrent); consent of instructor</td>
<td>III</td>
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<tr>
<td>WFC 111 Biology &amp; Conservation of Wild Birds</td>
<td>BIS 2A-C; EVE 101 or ESP 100 or equivalent</td>
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<tr>
<td>WFC 111L Lab in Biology &amp; Conservation of Wild Birds</td>
<td>WFC 111 (may be concurrent); consent of instructor</td>
<td>I</td>
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<tr>
<td>WFC 120 Biology &amp; Conservation of Fishes</td>
<td>BIS 2A-C</td>
<td>I</td>
<td>3</td>
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<tr>
<td>WFC 120L Lab in Biology &amp; Cons of Fishes</td>
<td>WFC 120 (may be concurrent)</td>
<td>I</td>
<td>2</td>
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<tr>
<td>WFC 134* Herpetology</td>
<td></td>
<td>BIS 2A-C; EVE 101, ESP 100 or equivalent rec.</td>
<td>II</td>
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<tr>
<td>WFC 134L* Herpetology Laboratory</td>
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<td>EVE 134 concurrently</td>
<td>II</td>
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<tr>
<td><strong>Research Methods</strong> (Choose one of the following)</td>
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<tr>
<td>WFC 100 Field Methods in Wildlife, Fish, &amp; Cons. Bio</td>
<td>EVE 101 or ESP 100 or equivalent; consent of instructor</td>
<td>III</td>
<td>4</td>
<td></td>
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<tr>
<td>WFC 101/L** Field Research in Wildlife Ecology</td>
<td>Consent of instructor &amp; 1 upper division course in ecology, statistics, and ornithology, mammalogy, or herpetology</td>
<td>I</td>
<td>2</td>
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<tr>
<td><strong>GIS Technology</strong> (Strongly recommended, but not required)</td>
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<tr>
<td>ABT/LDA 150 Geographic Info Systems for Land Planners</td>
<td>PLS 21 or equivalent with consent of instructor</td>
<td>I</td>
<td>4</td>
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<tr>
<td><strong>Anatomy</strong> (Strongly recommended, but not required)</td>
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<tr>
<td>APC 100 Comparative Organology of Vertebrates</td>
<td>BIS 2A-B</td>
<td>II</td>
<td>4</td>
<td></td>
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</tr>
</tbody>
</table>

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**Course is offered in even years only (2012, 2014, etc.)  
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Areas of Specialization

Choose one from the five Areas of Specialization shown below. Students must maintain a C average (2.0 GPA) and pass all course work in their chosen specialization.

Area of Specialization I

**Wildlife Biology** (5 courses, 16-22 units)

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Prerequisites</th>
<th>Qtr(s)***</th>
<th>Units</th>
<th>Grade</th>
<th>Grade Pts</th>
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</thead>
<tbody>
<tr>
<td>WFC 151 Wildlife Ecology</td>
<td>BIS 2A-C or the equivalent; WFC 110L or 111L rec</td>
<td>I</td>
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**Choose one Plants course**

<table>
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<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Qtr(s)***</th>
<th>Units</th>
<th>Grade</th>
<th>Grade Pts</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLS 144 Trees and Forests</td>
<td>PLS 2 or BIS 2C</td>
<td>I</td>
<td>4</td>
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<tr>
<td>PLS 178** Biology &amp; Management of Aquatic Plants</td>
<td>PLS 2 or BIS 2C; CHE 8B or 118B; PLS 100C, PLB 111, ENH 102, or HYD 122 rec</td>
<td>I</td>
<td>3</td>
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<tr>
<td>PLB/PLS 102 California Floristics</td>
<td>PLS 2 or BIS 2C or equivalent</td>
<td>III</td>
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<tr>
<td>PLS 147/L California Plant Communities + Lab</td>
<td>BIS 2A or 2B or 2C; MCB 10 rec</td>
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**Choose one Systems course**

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<th>Course</th>
<th>Prerequisites</th>
<th>Qtr(s)***</th>
<th>Units</th>
<th>Grade</th>
<th>Grade Pts</th>
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<tbody>
<tr>
<td>ESP 155 Wetland Ecology</td>
<td>ESP 100 or PLB 117; ESP 110 or 151 recommended</td>
<td>I</td>
<td>4</td>
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<tr>
<td>PLS 130** Rangelands: Ecology</td>
<td>BIS 2C; introductory ecology course and junior standing recommended</td>
<td>II</td>
<td>3</td>
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<tr>
<td>WFC 155/L Habitat Conservation &amp; Restoration</td>
<td>EVE 101 or ESP 100 or equivalent; WFC 154 &amp; ENH 160 recommended</td>
<td>II</td>
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<tr>
<td>ENH 160 Restoration Ecology</td>
<td>PLB 117, EVE 121, PLB 147, or equiv.</td>
<td>III</td>
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<tr>
<td>WFC 156† Plant Geography</td>
<td>EVE 101 or ESP 100 or equivalent; PLB 102 or 108 strongly recommended</td>
<td>III</td>
<td>4</td>
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</table>

WFC 157† Coastal Ecosystems

**Choose two Management & Behavior courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Qtr(s)***</th>
<th>Units</th>
<th>Grade</th>
<th>Grade Pts</th>
</tr>
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<tr>
<td>ABT/LDA 150 Introduction to Geographic Info Systems</td>
<td>PLS 21 or equivalent with consent of instructor</td>
<td>I</td>
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<tr>
<td>ETE 101 Principles of Environmental Toxicology</td>
<td>CHE 8B,118B, or 128B; BIS 2A</td>
<td>I</td>
<td>4</td>
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<tr>
<td>EVE 107* Animal Communication</td>
<td>BIS 2B; animal behavior course (NPB 102, PSY 101, ANS 104, ENT 104, or equivalent)</td>
<td>I</td>
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<tr>
<td>ANS 104 Principles of Domestic Animal Behavior</td>
<td>BIS 2A or 2B or equivalent</td>
<td>II</td>
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<td>ESP 121 Population Ecology</td>
<td>BIS 2B-C; Math 16A-B</td>
<td>II</td>
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<tr>
<td>WFC 136** Ecology of Waterfowl &amp; Game Birds</td>
<td>WFC 111, 111L, or equivalent, or consent of instructor</td>
<td>II</td>
<td>3</td>
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<tr>
<td>WFC 141** Behavioral Ecology</td>
<td>EVE 101 or ESP 100 or equivalent</td>
<td>II</td>
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</table>

WFC 152* Ecology of Human-Wildlife Conflicts

**ENT 156 Biology of Parasitism**

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Qtr(s)***</th>
<th>Units</th>
<th>Grade</th>
<th>Grade Pts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note: Cannot be used to simultaneously fulfill the depth requirement</td>
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<tr>
<td>WFC 152* Ecology of Human-Wildlife Conflicts</td>
<td>BIS 2A-C or the equivalent</td>
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<tr>
<td>ENT 156 Biology of Parasitism</td>
<td>BIS 2A or consent of instructor</td>
<td>III</td>
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</table>

†Future availability unknown

Note: Students interested in certification as a Wildlife Biologist from The Wildlife Society should consider additional courses in plant sciences. Recommended courses include:

- PLB 108 Systematics & Evolution of Angiosperms
- PLS 117 Plant Ecology
- PLS 148 Introductory Mycology
- PLS 131 Identification and Ecology of Grasses
- PLS 144 Trees & Forests
- PLS 145 Sierra Nevada Flora
- PLS 178** Biology & Management of Aquatic Plants
- PLB 118† Introductory Phycology & Bryology
- PLB 119 Population Biology of Weeds

*Course is offered in odd years only (2013, 2015, etc.)

I = fall quarter, II = winter quarter, III = spring quarter, IV = summer session

Note: Students interested in certification as a Wildlife Biologist from The Wildlife Society should consider additional courses in plant sciences. Recommended courses include:

- PLB 108 Systematics & Evolution of Angiosperms
- PLS 117 Plant Ecology
- PLS 148 Introductory Mycology
- PLS 131 Identification and Ecology of Grasses
- PLS 144 Trees & Forests
- PLS 145 Sierra Nevada Flora
- PLS 178** Biology & Management of Aquatic Plants
- PLB 118† Introductory Phycology & Bryology
- PLB 119 Population Biology of Weeds

I = fall quarter, II = winter quarter, III = spring quarter, IV = summer session

Notes:
- Course offerings are subject to change. Check with your adviser for the most updated listings.
Area of Specialization II

**Fish Biology** (5 courses, 16-19 units)

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Prerequisites</th>
<th>Qtr(s)***</th>
<th>Units</th>
<th>Grade</th>
<th>Grade Pts</th>
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</thead>
<tbody>
<tr>
<td>WFC 120/L Biology &amp; Conservation of Fishes</td>
<td>BIS 2A-C</td>
<td>I</td>
<td>3</td>
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<tr>
<td>Lab in Biology &amp; Cons of Fishes</td>
<td>WFC 120 (may be concurrent)</td>
<td>I</td>
<td>2</td>
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</table>

**Choose one Invertebrates course**

| EVE 112/L** Biology of Invertebrates                   | BIS 2B-C                                                                     | II        | 3     | ______ | ______    |
| Biology of Invertebrates: Lab                           | EVE 112 concurrently                                                        | II        | 2     | ______ | ______    |
| ENT 116 Biology of Aquatic Insects                     | BIS 2B or the equivalent                                                    | III       | 3     | ______ | ______    |

**Choose three Aquatic Systems courses**

| ESM 100 Principles of Hydrologic Science               | CHE 2B; Math 16B; PHY 7A or 9A                                               | I         | 4     | ______ | ______    |
| HYD 143** Hydrological Processes in Ecosystems        | HYD 141 or ESM 100                                                           | II        | 3     | ______ | ______    |
| ANS 118†† Fish Production                              | WFC 120 and 121                                                              | II        | 4     | ______ | ______    |
| EVE 115* Marine Ecology                                | EVE 101, ESP 100, BIS 2A or consent of instructor                            | II        | 4     | ______ | ______    |
| WFC 155/L Habitat Conservation & Restoration          | EVE 101 or ESP 100 or equivalent; WFC 154 & ENH 160 recommended             | II        | 3     | ______ | ______    |
| Habitat Conservation & Restoration: Lab                | WFC 155 (may be concurrent)                                                  | II        | 2     | ______ | ______    |
| ESP 116N** Oceanography                                | GEL 1, 2, 16, or 50                                                          | II        | 3     | ______ | ______    |
| ESP 150C Biological Oceanography                       | BIS 2A; course in general ecology or consent of instructor                  | IV        | 4     | ______ | ______    |
| ESP 151†† Limnology                                    | BIS 2A; junior standing                                                       | 4         | 4     | ______ | ______    |
| ESP 151L†† Limnology Laboratory                        | ESP 151 concurrently                                                         | 3         | 4     | ______ | ______    |
| WFC 157†† Coastal Ecosystems                          | EVE 101, ESP 100 or equiv; course work in organismal bio, phys geography, & geology rec | 4         | 4     | ______ | ______    |

**Choose one Water Policy/Law course**

| ABT/LDA 150 Introduction to Geographic Info Systems   | PLS 21 or equivalent with consent of instructor                             | I         | 4     | ______ | ______    |
| HYD 150 Water Law                                      | ESM 100 or 121 or consent of instructor                                       | II        | 3     | ______ | ______    |
| ESP 161 Environmental Law                             | Upper division standing; one course in env. science (i.e.: ESP 1, 10, 110, BIS 2A, ETX 10, or ESM 100) | III       | 4     | ______ | ______    |
| ESP 169** Water policy and politics                   | ECN 1A; POL 1                                                                | III       | 4     | ______ | ______    |

† Course is not regularly offered

**Future availability unknown**

* I = fall quarter, II = winter quarter, III = spring quarter, IV = summer session
* Course is offered in odd years only (2013, 2015, etc.)
* Course is offered in even years only (2012, 2014, etc.)
* Course offerings are subject to change. Check with your adviser for the most updated listings.
### Area of Specialization III

**Conservation Biology (5 courses, 18-21 units)**

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Prerequisites</th>
<th>Qtr(s)***</th>
<th>Units</th>
<th>Grade</th>
<th>Grade Pts</th>
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</thead>
<tbody>
<tr>
<td>WFC 155/L Habitat Conservation &amp; Restoration</td>
<td>EVE 101 or ESP 100 or equivalent; WFC 154 &amp; ENH 160 recommended</td>
<td>II</td>
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<td></td>
<td>Habitat Conservation &amp; Restoration: Lab</td>
<td>II</td>
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**Choose one Policy course**

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<thead>
<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Qtr(s)***</th>
<th>Units</th>
<th>Grade</th>
<th>Grade Pts</th>
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<tbody>
<tr>
<td>ESP 161</td>
<td>Environmental Law 1 course in Environmental Science (ex: ESP 1, 10, 110, BIS 2A or ETX 10)</td>
<td>III</td>
<td>4</td>
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<tr>
<td>ESP 171</td>
<td>Urban and Regional Planning ESP 1 &amp; 1 course in Environmental Science and Social Science</td>
<td>III</td>
<td>4</td>
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<tr>
<td>ESP 170*</td>
<td>Conservation Biology Policy ESP 1; ECN 1A; ECN 100 or ARE 100A recommended</td>
<td>III</td>
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**Choose two Systems & Conservation courses**

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<th>Prerequisites</th>
<th>Qtr(s)***</th>
<th>Units</th>
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<tr>
<td>EVE 147*</td>
<td>Biogeography BIS 2B</td>
<td>I</td>
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<td>PLB/EVE 117</td>
<td>Plant Ecology BIS 2A-C; PLB 111 recommended</td>
<td>I</td>
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<tr>
<td>ESP 127</td>
<td>Plant Conservation Biology EVE 101 or ESP 100 or equivalent</td>
<td>II</td>
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<tr>
<td>EVE 115*</td>
<td>Marine Ecology EVE 101, ESP 100, BIS 2A or consent of instructor</td>
<td>II</td>
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<tr>
<td>WFC 152*</td>
<td>Ecology of Human-Wildlife Conflicts BIS 2A-C or the equivalent</td>
<td>II</td>
<td>3</td>
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<td>ENH 160</td>
<td>Restoration Ecology PLB 117, EVE 121, PLB 147, or equiv.</td>
<td>III</td>
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<tr>
<td>EVE 138*</td>
<td>Ecology of Tropical Latitudes One course in BIS, ENT, WFC, GEO, tropical experience or consent of instructor</td>
<td>III</td>
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<tr>
<td>WFC 156*</td>
<td>Plant Geography EVE 101 or ESP 100 or equivalent; PLB 102 or 108 strongly recommended</td>
<td>III</td>
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<tr>
<td>WFC 157††</td>
<td>Coastal Ecosystems EVE 101, ESP 100 or equiv; course work in organismal bio, phys geography, &amp; geology rec</td>
<td>IV</td>
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**Choose one Ethics course**

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<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Qtr(s)***</th>
<th>Units</th>
<th>Grade</th>
<th>Grade Pts</th>
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</thead>
<tbody>
<tr>
<td>ANS 103</td>
<td>Animal Welfare ANS 104 or NPB 102 or the equivalent or consent of instructor</td>
<td>I</td>
<td>4</td>
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<tr>
<td>ANS 170</td>
<td>Ethics of Animal Use Any basic course in composition or speech</td>
<td>III</td>
<td>4</td>
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</tbody>
</table>

†Course is not regularly offered  
††Future availability unknown

I = fall quarter, II = winter quarter, III = spring quarter, IV = summer session  
*COURSE is offered in odd years only (2013, 2015, etc.)*  
**Course is offered in even years only (2012, 2014, etc.)*  
***Course offerings are subject to change. Check with your adviser for the most updated listings.*
### Area of Specialization IV

**Wildlife Health** (5 courses, 14-23 units)

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Prerequisites</th>
<th>Qtr(s)***</th>
<th>Units</th>
<th>Grade</th>
<th>Grade Pts</th>
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<tbody>
<tr>
<td>Complete either BIS 102/103 or ABI 102/103</td>
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<tr>
<td>BIS 102</td>
<td>Structure &amp; Function of Biomolecules</td>
<td>I, II, III, IV</td>
<td>3</td>
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<tr>
<td>BIS 103</td>
<td>Bioenergetics &amp; Metabolism</td>
<td>I, II, III, IV</td>
<td>3</td>
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<tr>
<td>ABI 102</td>
<td>Animal Biochemistry &amp; Metabolism</td>
<td>I</td>
<td>5</td>
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<tr>
<td>ABI 103</td>
<td>Animal Biochemistry &amp; Metabolism</td>
<td>II</td>
<td>5</td>
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</table>

**Choose one Wildlife course**

- **WFC 151** Wildlife Ecology  
  Prerequisites: BIS 2A-C or the equivalent; WFC 110L or 111L rec  
  Qtr(s): I  
  Units: 4  
- **WFC 136** Ecology of Waterfowl & Game Birds  
  Prerequisites: WFC 111, 111L, or equivalent, or consent of instructor  
  Qtr(s): II  
  Units: 3  
- **WFC 152** Ecology of Human-Wildlife Conflicts  
  Prerequisites: BIS 2A-C or the equivalent  
  Qtr(s): II  
  Units: 3  
- **WFC 155/L** Habitat Conservation & Restoration  
  Prerequisites: EVE 101 or ESP 100 or equivalent; WFC 154 & ENH 160 recommended  
  Qtr(s): II  
  Units: 2  

**Choose one Ethics course**

- **ANS 103** Animal Welfare  
  Prerequisites: ANS 104 or NPB 102 or the equivalent or consent of instructor  
  Qtr(s): I  
  Units: 4  
- **ANS 170** Ethics of Animal Use  
  Prerequisites: Any basic course in composition or speech  
  Qtr(s): III  
  Units: 4  

**Choose one or more General courses**

- **NPB 101** Systemic Physiology  
  Prerequisites: BIS 2B; CHE 2B; PHY 1B or 7C strongly rec.  
  Qtr(s): I, II, III, IV  
  Units: 5  
- **MCB 150** Developmental Biology  
  Prerequisites: BIS 101; MCB 150L concurrently  
  Qtr(s): I  
  Units: 4  
- **MIC 104** General Microbiology  
  Prerequisites: BIS 101, 102, and 103  
  Qtr(s): I  
  Units: 4  
- **ANS 104** Principles of Domestic Animal Behavior  
  Prerequisites: BIS 2A or 2B or equivalent  
  Qtr(s): II  
  Units: 4  
- **APC 100** Comparative Organology of Vertebrates  
  Prerequisites: BIS 2A-B  
  Qtr(s): II  
  Units: 4  
- **NPB 140** Principles of Environmental Physiology  
  Prerequisites: NPB 101; BIS 102 recommended  
  Qtr(s): II  
  Units: 3  
- **VME 158** Infectious Diseases in Ecology & Conservation  
  Prerequisites: EVE 101 or ESP 100 or equivalent  
  Qtr(s): II  
  Units: 3  

---

This AOS also recommends extra preparatory courses; pre-requisites for admission into Veterinary Medicine vary among schools and students should confirm the specific requirements of the schools to which they wish to apply. We recommend that the following additional courses be considered:

- **CHE 2C** General Chemistry
- **CHE 118A-C** Organic Chemistry for Health & Life Sciences *Note: Some schools may accept CHE 8A-B; individual schools will vary
- **PHY 7A-C** General Physics *Note: some schools may accept PHY 1A-B; individual schools will vary

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Area of Specialization V

Individualized

Students may, with prior approval of their adviser and the curriculum committee, design their own individualized specialization within the major. The specialization will consist of 5 additional courses with a common theme. See your faculty adviser regarding the petition required for this specialization.

Individualized theme:

________________________________________________________________________

________________________________________________________________________

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Required Courses                                      Quarter Taken  Units  Grade  Grade Pts

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*Course is offered in odd years only (2013, 2015, etc.)
**Course is offered in even years only (2012, 2014, etc.)
***Course offerings are subject to change. Check with your adviser for the most updated listings.
## General Education Requirement
### Effective Fall 2011

### Topical Breadth

<table>
<thead>
<tr>
<th></th>
<th>Units</th>
<th>Satisfied</th>
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<tbody>
<tr>
<td><strong>A. Arts &amp; Humanities (AH):</strong></td>
<td>12-20</td>
<td>□ Satisfied</td>
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<tr>
<td><strong>B. Science &amp; Engineering (SE):</strong></td>
<td>12-20</td>
<td>□ Satisfied</td>
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<tr>
<td><strong>C. Social Sciences (SS):</strong></td>
<td>12-20</td>
<td>□ Satisfied</td>
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(AH) units + (SE) units + (SS) units = 52 (52) units

### Core Literacies

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<th>I.</th>
<th>II.</th>
<th>III.</th>
<th>IV.</th>
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<tbody>
<tr>
<td>Literacy with Words &amp; Images (20 units)</td>
<td>Civic &amp; Cultural Literacy (9 units)</td>
<td>Quantitative Literacy (3 units)</td>
<td>Scientific Literacy (3 units)</td>
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<tr>
<td><strong>a.</strong> College English Composition Requirement: <strong>b.</strong> Writing Experience:</td>
<td><strong>a.</strong> American Cultures, Governance &amp; History: <strong>b.</strong> Other:</td>
<td><strong>I.</strong></td>
<td><strong>II.</strong></td>
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<td>8 units, or the equivalent</td>
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