## B.S., Wildlife Biology and Conservation

### Minimum Requirements for Degree: 120 credits
Students must earn a C- grade or better in each course.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td><strong>General University Requirements</strong></td>
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<td>Complete the general university requirements. (<a href="http://catalog.uaf.edu/bachelors">http://catalog.uaf.edu/bachelors</a>)</td>
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<td><strong>General Education Requirements</strong></td>
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<td>Complete the general education requirements. (<a href="http://catalog.uaf.edu/bachelors/general-education-requirements">http://catalog.uaf.edu/bachelors/general-education-requirements</a>)</td>
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<td>As part of the general education requirements, complete:</td>
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<tr>
<td>CHEM F105X</td>
<td>General Chemistry I</td>
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<tr>
<td>CHEM F106X</td>
<td>General Chemistry II</td>
<td></td>
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<tr>
<td>COJO F141X</td>
<td>Fundamentals of Oral Communication: Public Context</td>
<td></td>
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<tr>
<td>MATH F251X</td>
<td>Calculus I</td>
<td></td>
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<tr>
<td>or MATH F230X Essential Calculus with Applications</td>
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<td><strong>B.S. Degree Requirements</strong></td>
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<td>Complete the B.S. degree requirements. (<a href="http://catalog.uaf.edu/bachelors/summary-of-bachelors-degree-reqs/#bachelorofsciencesetext">http://catalog.uaf.edu/bachelors/summary-of-bachelors-degree-reqs/#bachelorofsciencesetext</a>)</td>
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<td>As part of the B.S. degree requirements, complete:</td>
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<tr>
<td>BIOL F115X</td>
<td>Fundamentals of Biology I</td>
<td></td>
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<td>BIOL F116X</td>
<td>Fundamentals of Biology II</td>
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<tr>
<td>STAT F200X</td>
<td>Elementary Statistics</td>
<td></td>
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<tr>
<td>or STAT F300</td>
<td>Statistics</td>
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<td><strong>Program Requirements</strong></td>
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<tr>
<td>BIOL F239</td>
<td>Introduction to Plant Biology</td>
<td>4</td>
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<tr>
<td>BIOL F260</td>
<td>Principles of Genetics</td>
<td>4</td>
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<tr>
<td>BIOL F310</td>
<td>Animal Physiology</td>
<td>4</td>
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<tr>
<td>BIOL F331</td>
<td>Systematic Botany</td>
<td>3</td>
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<tr>
<td>or BIOL F488</td>
<td>Arctic Vegetation Ecology: Geobotany</td>
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<tr>
<td>BIOL F371</td>
<td>Principles of Ecology</td>
<td>4</td>
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<tr>
<td>BIOL F471</td>
<td>Population Ecology</td>
<td>3</td>
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<tr>
<td>ENGL F314</td>
<td>Technical Writing</td>
<td>3</td>
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<tr>
<td>or ENGL F414</td>
<td>Research Writing</td>
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<tr>
<td>PHYS F103X</td>
<td>College Physics I</td>
<td>4</td>
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<tr>
<td>or GEOS F101X</td>
<td>The Dynamic Earth</td>
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<tr>
<td>or NRM F380</td>
<td>Soils and the Environment</td>
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<tr>
<td>STAT F401</td>
<td>Regression and Analysis of Variance</td>
<td>4</td>
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<tr>
<td>WLF F101</td>
<td>Survey of Wildlife Science</td>
<td>2</td>
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<tr>
<td>WLF F301</td>
<td>Design of Wildlife Studies (^{1})</td>
<td>3</td>
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<tr>
<td>WLF F322</td>
<td>Principles and Techniques of Wildlife Management</td>
<td>3</td>
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<td>Complete one of the following:</td>
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<tr>
<td>WLF F305</td>
<td>Wildlife Diseases</td>
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<td>WLF F433</td>
<td>Conservation Genetics</td>
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<tr>
<td>WLF F469</td>
<td>Landscape Ecology and Wildlife Habitat</td>
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<td>Complete three from the following:</td>
<td>9</td>
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<tr>
<td>BIOL F425</td>
<td>Mammalogy</td>
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<td>BIOL F426</td>
<td>Ornithology</td>
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<td></td>
<td>WLF F421</td>
<td>Ecology and Management of Large Mammals</td>
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<td>WLF F425</td>
<td>Ecology and Management of Birds</td>
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<td>Complete two from the following:</td>
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<tr>
<td>ECON F235X</td>
<td>Introduction to Natural Resource Economics</td>
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<tr>
<td>HIST F411</td>
<td>Environmental History</td>
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<tr>
<td>NRM F204</td>
<td>Public Lands Law and Policy</td>
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<tr>
<td>NRM F403</td>
<td>Environmental Decision-Making</td>
<td></td>
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<tr>
<td>NRM F407</td>
<td>Environmental Law</td>
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<tr>
<td>PS F447</td>
<td>U.S. Environmental Politics</td>
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<td>Complete at least two additional courses at the F300 level or higher (3 or 4 credits) in biology, wildlife biology, fisheries or natural resources management</td>
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<td><strong>Capstone</strong></td>
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<td>Satisfactory completion of a capstone research project, which can be done by completing the course project for WLF F301 with either junior or senior standing.</td>
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<td>(^{1})</td>
<td>Fulfills the baccalaureate capstone requirement (junior or senior standing required).</td>
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<td><strong>Note:</strong> B.S. degree candidates are strongly urged to obtain work experience in wildlife-related positions with public resource agencies or private firms. Faculty members can help students contact potential employers.</td>
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<td><strong>Requirements for biology teachers (grades 7-12)</strong></td>
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<td>Note: We strongly recommend that prospective secondary science teachers seek advising from the Alaska College of Education early in their undergraduate degree program so they can be appropriately advised of the State of Alaska requirements for teacher licensure. Students will apply for admission to the Alaska College of Education’s postbaccalaureate teacher preparation program, a one-year intensive program, during their senior year. The above requirements apply to all candidates who apply to the Alaska College of Education for licensure in biology.</td>
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<td>Complete all the requirements of the wildlife biology B.S. degree.</td>
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<td>All prospective biology teachers must complete the following:</td>
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<tr>
<td>BIOL F342</td>
<td>Microbiology</td>
<td>4</td>
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<tr>
<td>BIOL F481</td>
<td>Principles of Evolution</td>
<td>4</td>
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<tr>
<td>CHEM F321</td>
<td>Organic Chemistry I</td>
<td>8</td>
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<tr>
<td>and CHEM F325</td>
<td>and Organic Chemistry II</td>
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<td>All prospective science teachers must complete the following:</td>
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<tr>
<td>PHIL F481</td>
<td>Philosophy of Science</td>
<td>3</td>
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\(^{1}\) Fulfills the baccalaureate capstone requirement (junior or senior standing required).