# Bachelor of Science – Wildlife and Fish Conservation and Management

## Check List

**Associate of Applied Science degree in Fish and Wildlife Management or Wildlife Sciences (Hocking College)**  
71 credits

**Remaining General Education required hours**  
9 – 15 credits

**Additional 100-200 level classes at Rio to meet standards for Wildlife Certification**  
0 – 9 credits

**30000-40000 level Required Courses (taught by URG)**  
37 minimum credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSC 31303</td>
<td>Communication Env Nat Res Info</td>
</tr>
<tr>
<td>BIO 32103</td>
<td>Advanced Ornithology</td>
</tr>
<tr>
<td>BIO 35304</td>
<td>Field Biology &amp; Methodology</td>
</tr>
<tr>
<td>BIO 37103</td>
<td>Principles of Conservation Genetics</td>
</tr>
<tr>
<td>BIO 41304</td>
<td>Limnology</td>
</tr>
<tr>
<td>BIO 42303</td>
<td>Human-Wildlife Conflicts</td>
</tr>
<tr>
<td>BIO 47303</td>
<td>GIS Applications for Resources Mgmt</td>
</tr>
<tr>
<td>BIO 43103</td>
<td>Applied Population Biology</td>
</tr>
<tr>
<td>BIO 45303</td>
<td>Conservation Biology</td>
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Minimum of 4 hours taking either:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIO 48802-03</td>
<td>Selected Topics in Biology</td>
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<tr>
<td>BIO 49902-03</td>
<td>Directed Studies in Biology</td>
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</tbody>
</table>

Selected Topics May Include *(if offered)*:

- Advanced Fisheries Management
- Aquatic Entomology
- Biodiversity: Monitoring and Management
- Biology/Management of Anadromous Fish
- Environmental Ethics
- Forest-Wildlife Management
- Herpetology
- Invasive Species: Monitoring & Management
- Wetlands Ecology and Soils
- Wildlife Diseases
- Other to be announced

**Total required hours for degree**  
122-137 credits
*Students completing a Hocking College AAS Degree in Wildlife and Fish Conservation and Management or Wildlife Sciences will have completed URG General Education Requirements in Communication, Math and Science, and partially completed Health and Social Science requirements. They will need to complete 0 - 2 semester hours of health, 9 semester hours of humanities, and 0 - 4 semester hours of social sciences. Specific course substitutions have been developed for Hocking classes that are equivalent to URG classes. **Note:** Students must take HC CHM 131 Environmental Chemistry as one of their physical science classes—or take Principles of Chemistry at the University of Rio Grande.

**Bachelor of Science in Wildlife and Fish Conservation and Management**

**Suggested Course Sequence**

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
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</thead>
</table>
| **Junior** | BIO 36303 Local Flora  
BIO 35304 Field Biology & Methodology  
BIO 48802-03 Elective or  
Plus 1-2 bridge (Gen Ed) course(s) | NSC 31303 Communication of Environmental and Natural Resources Technical Information  
BIO 32303 Mammalogy  
BIO 37103 Principles of Conservation Genetics  
BIO 48802-03 Elective or  
BIO 49902-03 Directed Study  
Plus 1-2 bridge course(s) |
| **Senior** | BIO 41303 GIS Applications for Resources Management  
BIO 42303 Human-Wildlife Conflicts  
BIO 41304 Limnology  
BIO 48802-03 Elective or  
BIO 49902-03 Directed Study  
Plus 1-2 bridge course(s) | BIO 31303 Advanced Ornithology  
BIO 43103 Applied Population Biology  
BIO 45303 Conservation Biology (capstone course)  
BIO 48802-03 Elective or  
BIO 49902-03 Directed Study  
Plus 1-2 bridge course(s) |

**Electives may include** (offerings subject change and to availability of qualified instructors and student interest):

- Advanced Fisheries Management
- Aquatic Entomology
- Biodiversity: Monitoring and Management
- Biology/Management of Anadromous Fish
- Environmental Ethics
- Forest-Wildlife Management
- Herpetology
- Invasive Species: Monitoring & Management
- Wetlands Ecology and Soils
- Wildlife Diseases
- Directed Study