

**Department of Fish and Wildlife Sciences**  
**Information on Minors, Certificates, and Certification**  
 Updated Oct 2022

| <b>Minors (18 cr)</b>            | <b>Certificates (15-18 cr)</b>             |
|----------------------------------|--|
| Aquaculture                      | Tribal Natural Resource Stewardship        |
| Ecology                          | Restoration Ecology                        |
| Environmental Communication      | Remote Sensing of the Environment          |
| Fire Ecology and Management      | <a href="#">GIS</a> – Geography            |
| Fisheries Resources              | <a href="#">Climate Change</a> - Geography |
| Forest Operations                |  |
| Forest Resources                 |  |
| Natural Resources Conservation   |  |
| Rangeland Ecology and Management |  |
| Renewable Materials              |  |
| Wildlife Resources               |  |

See this [webpage](#) for course information on CNR minors and certificates

*Note: WLF and Range can work together to develop a double major curriculum that can be completed in 4 years. See Karen Launchbaugh and Lisette Waits if interested.*

### **Professional certification**

2 levels – Associate Professional (BS) and Certified Professional (BS plus experience)

#### [Wildlife – The Wildlife Society \(TWS\)](#)

- 6 Credits WLF management (WLF440, WLF492)
- 6 Credits WLF biology (Ornithology, Herpetology, Mammalogy)
- 3 Credits Ecology (WLF220, For221, NR321)
- 9 Credits Zoology (Bio 114, Bio115, WLF314/315, WLF371)
- 9 Credits Botany (For320, REM252/253 or REM341, Bio310, Bio 213)
- 9 Credits of Physical Science (Chem101, Soil205/206, Phys101, or Geo101, Chem275)
- 3 Credits of Statistics (Stat251)
- 6 Credits Quantitative Science (Math160, WLF448)
- 9 Credits Humanities and Social Science
- 12 Credits Communication (Eng101, Eng102, WLF370, Comm101^)
- 6 Credits Policy and Law (NRS235, Social political bin course)

#### [Fisheries – American Fisheries Society - AFS](#)

- 4 courses Fisheries and Aquatic Sciences (Fish314/315, Fish415, Fish418, many more)
- 30 total Credits of Biological Science (this is met)
- 15 credits Physical Science (Chem101, Chem275, Geol101, Geog100 or Phys101, For375\*)
- 6 Credits Math/Stat (Math160, Stat251)

9 Credits Communication (Eng102, Comm101, WLF370^)

6 Credits Human Dimensions (NRS235, NRS383)

\*1 credit short but can petition to consider Limnology

^ 1 credit short but can petition to use Fish and WLF courses with papers/presentations