Fisheries, Wildlife & Conservation Biology
Additional Professional Experience

As part of the core FW curriculum, students in Fisheries, Wildlife, and Conservation Biology are required to complete a “second field experience.” This is in addition to the two summer session field courses taught at Cloquet, FW 3106 and 3108, which constitute the “first field experience” (but you needn’t take the Cloquet courses before you fulfill the 2nd Professional Experience, all that matters is that you complete both requirements). Students have three separate options for fulfilling their second professional experience:

1) Complete an approved study abroad program that includes a field component addressing fisheries, wildlife, or biodiversity conservation.
2) Complete an additional field course that involves “hands on” experiences with fisheries, wildlife, or conservation biology.
3) Complete an approved internship experience by working or volunteering on an appropriate project. To get academic credit using this option, you must also register ESPM 4096

Study Abroad Programs
The following UMN courses will automatically qualify. Many other study abroad experiences could qualify, but require pre-approval from the major coordinator. If you are planning to do an entire semester abroad, you should consult with your faculty advisor to try to identify at least one course that could qualify as your second professional experience.

CFAN 3514 – Machu Picchu and the Amazon: Climate change and the city of the gods – 3 cr.
This three credit faculty-led international field study seminar explores four World Heritage sites in Peru. The course explores aspects of biodiversity in the context of climate change and allows students to design, conduct and report the results of an independent study in the Amazon rainforest

CFAN 3504- Thailand - Mammal Survey Design and Techniques. This course is taught between Christmas and the start of spring semester. It provides participants with a brief overview of Thailand’s culture and conservation challenges. Students then work with Thai rangers to apply a set of field survey tools for assessing abundance of potential tiger prey.

CFAN 3502- Bahamas - Tropical Marine Biology & Shark Ecology. This course takes students to the small island of Bimini, Bahamas in mid August to experience a hands-on introduction to marine field biology, with an emphasis on shark ecology. Students will learn about the ecosystems found on the island of Bimini through lectures, visits with local experts, and daily snorkeling experiences.

Approved Field Courses
The following field courses will fulfill the second professional experience. A wide variety of field courses taught at other institutions could also fulfill this requirement, but you must obtain prior approval.

FW 5625: Wildlife Handling and Immobilization for Research and Management; 2 credits. Preparation procedures, legal responsibilities, capture drugs, delivery systems, safety measures, ethical issues, and basic veterinary procedures for handling wildlife. Taught in Forest Lake,
The following summer courses taught at Itasca Biological Station & Laboratories can also qualify, with the caveat that they **may not be double counted** towards other major requirements:

- **Biol 3811: Introduction to Animal Behavior**
- **EEB 4825: Telemetry and Animal Behavior**
- **EEB 4839: Field Studies in Mammalogy**
- **EEB 4844: Field Ornithology**