

WILDLIFE SPECIALIZATION

Effective Fall 2018

Prerequisites are listed in brackets; Semester usually offered is indicated (Fall, Spring)

Communications (8)

___ FW 4603 Preparing Research Proposals for Wildlife Biologists; (1), Fall --- *will begin Fall 2019*

Select **two or more** of the following:

___ AFEE 2421 Professional Communication for Agriculture, Food and the Environment; (3), Fall/Spring

___ COMM 1101 Public Speaking; (3), Fall/Spring/Summer

___ WRIT 3152W Writing on Issues of Science and Technology; (3), Fall/Spring

___ WRIT 3221W Communication Modes and Methods; (3), Fall/Spring

___ WRIT 3257 Technical and Professional Presentations; (3), [COMM 1101] Fall/Spring

___ WRIT 3562W Technical and Professional Writing; (4) [Jr or instructor consent], Fall/Spring

Human Dimensions (6)

Select **two or more** of the following:

___ ESPM 3011W Ethics in Natural Resources; (3), Fall/Spring

___ ESPM 3202W Env't. Conflict Mgmt, Leadership, and Planning; (3), (Jr/Sr), Spring

___ ESPM 3241W Natural Resource & Env. Policy; (3), (SS, CIV), Spring

___ ESPM 3245 Sustainable Land Use Planning and Policy; (3), (ENV), Fall

___ ESPM 3271 Environmental Policy, Law & Human Behavior; (3), (SS, CIV), Fall

___ FW 3925 Human Dimensions of Fisheries and Wildlife Management; (3), Spring

Animals and Plants (14)

___ BIOL 2022 Botany; (3) Fall/Spring

Select **two or more** of the following:

___ EEB 4129 or EEB 4839 Mammalogy; (4) [BIOL 2012], Fall

___ EEB 4134 or EEB 4844 Ornithology; (4) [BIOL 2012], Spring

___ FW 4101 Herpetology; (4) [BIOL 1001 or 2012], Spring: every odd year

Select **one or more** of the following:

___ FNRM 1101 Dendrology, Identifying Forest Trees and Shrubs; (3), Fall

___ PBIO 4321 Taxonomy of Minnesota Flora; (3) [BIOL 1001 or BIOL 1009], Fall: alternate years

___ PBIO 4511 Flowering Plant Systematics; (3) [BIOL 1001 or BIOL 1009], Spring: alternate years

Community and Ecosystem Ecology (≥ 3)

Select **one** of the following:

___ EEB 4609W Ecosystem Ecology; (3) [EEB 3407/8], Fall

___ ESPM 3108 Ecology of Managed Systems; (3) [BIOL 1001 or 1009], Fall

___ ESPM 3575 Wetlands; (3), Spring

___ ESPM 5071/HORT 5071 Ecological Restoration; (4) [ecology course, plant science or botany], Fall

___ FNRM 3104 Forest Ecology; (4) [biology course], Fall

___ FNRM 3204 Landscape Ecology and Management; (3) [ecology course], Fall

Wildlife (14)

___ FNRM 3131 Geographical Information Systems for Natural Resources; (4), (T&S), Fall/Spring

___ FW 4103 Principles of Wildlife Management; (3) [BIOL 1009], Fall

___ FW 5051 Analysis of Populations; (4) [Ecology, statistics], Spring

___ FW 5603W Habitats and Regulation of Wildlife; (3) [EEB 3407/8, FW 4103 or FW 4102], Fall

Physical Sciences (4)

Select one or more of the following:

- PHYS 1001W Energy and the Environment; (4), Fall/Spring
- PHYS 1101W Introductory College Physics I; (4), [high school algebra] Fall/Spring
- PHYS 1201W Introductory Physics for Biology & Pre-Med I; (5) [HS or college Calc] Fall/Spring/Summer

Wildlife Professional Certification: Students fulfilling this specialization will meet The Wildlife Society's educational requirements for certified wildlife biologist as long as they select ESPM 3575-Wetlands for Group 4 (Community and Ecosystem Ecology). This course fulfills part of the physical science and botany requirements for TWS. Also, students coming in with four credits from their freshman composition class must select a total of 8 communication credits in the core and wildlife specialization. The bottom line TWS requires 12 credits in communication courses.