Forestry Courses

FOR 5120 Forest Hydrology (3 credits)
This course will explore applications of adaptive silviculture, a forest management approach that applies an understanding of the structure, function, and dynamics of natural forest ecosystems to achieve integrated environmental, economic, and social outcomes. Prerequisite: FOR 5210 or consent of instructor.

FOR 5140 Forest Health (3 credits)
This course will introduce students to the concepts of forest health and illustrate how forested ecosystems are influenced by the interaction of diseases, insects and fire, as well as other biotic and abiotic disturbance agents. Emphasis will center on forests of the Great Lakes region. Students will learn the biology and ecology of common forest insects and diseases while also evaluating management strategies to prevent and mitigate their adverse effects. Prerequisite: BIOL 5623 or consent of instructor.

FOR 5210 Regional Silviculture (3 credits)
the United States with an emphasis on the Great Lakes region. Silviculture can be thought of as applied forest ecology; the theory and practice of influencing forest regeneration, species composition, and growth to accomplish a specified set of resource management objectives. This course will consider density management, regeneration practices, stand assessment and prescriptions, disturbance emulation, biodiversity conservation, and ecological restoration techniques through exploring alternative silvicultural strategies that follow from an understanding of regionally specific stand dynamics. Prerequisite(s): BIOL 5623 or consent of instructor.

FOR 5220 Adaptive Silviculture (3 credits)
This course will explore applications of adaptive silviculture, a forest management approach that applies an understanding of the structure, function, and dynamics of natural forest ecosystems to achieve integrated environmental, economic, and social outcomes. Prerequisite: FOR 5210 or consent of instructor.

FOR 5230 Integrated Forest Management (3 credits)
This course will focus on negotiating the competing priorities often encountered when managing forests for multiple objectives. Case studies will be examined to provide examples of strategic planning, coordination frameworks, and the analytical concepts, techniques, and skills used in conflict resolution. Students will engage in group discussions to practice communication skills in advocating for various forest management practices from different points of view representing different stakeholder interests. Prerequisite(s): None.

FOR 5310 Community and Tribal Forestry (3 credits)
With 40% of Minnesota¿s forested land being privately owned, individual, community, and tribal forest management plays an important role in conserving forested ecosystems, supporting local livelihoods, and maintaining cultural values. This course is designed to develop and refine your understanding of non-government and tribal natural resource management perspectives and practices. Prerequisite(s): None.

FOR 5510 Forest Biometry (4 credits)
Forest Biometry will examine the forest measurement and sampling methods as well as the sampling designs and statistical approaches commonly implemented in forest management. Measurement and sampling methods topics will focus on the techniques used in determining the volume and quality of logs, trees, and stands of trees. Sampling designs and statistical approaches topics will focus on methods of collecting and analyzing forest data for resources management, including specialty forest products, fuels management, and conservation of rare populations. Prerequisite(s) None.

All-University Courses

The course numbers listed below, not always included in the semester class schedule, may be registered for by consent of the advisor, instructor, or department chair, or may be assigned by the department when warranted. Individual registration requires previous arrangement by the student and the completion of any required form or planning outline as well as any prerequisites.

1910, 2910, 3910, 4910 DIRECTED INDEPENDENT STUDY
1920, 2920, 3920, 4920 DIRECTED GROUP STUDY
1930, 2930, 3930, 4930 EXPERIMENTAL COURSE
1940, 2940, 3940, 4940 IN-SERVICE COURSE
1950, 2950, 3950, 4950 WORKSHOP, INSTITUTE, TOUR
1960, 2960, 3960, 4960 SPECIAL PURPOSE INSTRUCTION
1970, 2970, 3970, 4970 INTERNSHIP
1980, 2980, 3980, 4980 RESEARCH
1990, 2990, 3990, 4990 THESIS