Forest & Rangeland Stewardship-F (F)

Courses

F 210 Forest Ecogeography Credits: 3 (2-2-0)
Course Description: Ecogeography of forested ecosystems on a global scale and identification of important North American trees.
Prerequisite: BZ 101 or BZ 104 or BZ 110 or BZ 120 or LIFE 102.
Registration Information: Must register for lecture and laboratory.
Terms Offered: Fall, Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

F 224 Wildland Fire Measurements Credit: 1 (0-2-0)
Course Description: Wildland fire control and use measurements: fuels, weather, topography, fire behavior, and fire ecology.
Prerequisite: None.
Registration Information: Required field trips.
Term Offered: Fall.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

F 230 Forestry Field Measurements Credits: 2 (0-4-0)
Course Description: Develop field skills using maps, compasses, and aerial photos; photo interpretation; tree and stand measurements; stand volume and value estimates.
Prerequisite: None.
Term Offered: Summer.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

F 310 Forest and Rangeland Ecogeography Credits: 3 (2-2-0)
Also Offered As: RS 310.
Course Description: Distribution of wildland plant communities and identification of important grasses, forbs, shrubs, and trees common in North America.
Prerequisite: BZ 101 or BZ 104 or BZ 110 or BZ 120 or LIFE 102.
Registration Information: Must register for lecture and laboratory.
Credit not allowed for both F 310 and RS 310.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

F 311 Forest Ecology Credits: 3 (3-0-0)
Course Description: Relationships of ecological concepts to the dynamics of forest ecosystems.
Prerequisite: LIFE 320 or LAND 220 or LIFE 220.
Term Offered: Fall, Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

F 312 Dendrology Lab Credit: 1 (0-2-0)
Course Description: Identification of characteristic trees common to North American forests.
Prerequisite: F 310, may be taken concurrently.
Term Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

F 321 Forest Biometry Credits: 3 (2-2-0)
Course Description: Measurement and estimation of timber in logs, trees, and stands. Sampling with varying probabilities.
Prerequisites: (NR 220 and F 230 and MATH 141) and (STAT 201 or STAT 301).
Registration Information: Must register for lecture and laboratory.
Required field trips.
Term Offered: Fall.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: Yes.

F 322 Economics of the Forest Environment Credits: 3 (3-0-0)
Course Description: Economic principles and techniques applied to forested environments.
Prerequisite: AREC 202 or ECON 202 or ECON 240 or AREC 240.
Term Offered: Fall, Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

F 324 Fire Effects and Adaptations Credits: 3 (3-0-0)
Course Description: Introduction to fire ecology including fire history, ecosystem effects, and organism responses.
Prerequisite: LIFE 320 or LAND 220 or LIFE 220.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

F 325 Silviculture Credits: 3 (3-0-0)
Course Description: Principles of silviculture and their application to major forest types of United States.
Prerequisites: F 230 and F 311 and NR 220.
Registration Information: Credit not allowed for both F 325 and NR 326.
Term Offered: Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

F 330 Timber Harvesting and the Environment Credits: 3 (2-2-0)
Course Description: Principles of timber harvesting and effects of logging on the environment.
Prerequisite: F 230 or F 321.
Registration Information: Must register for lecture and laboratory.
Required field trips.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

F 331 Wood Products in Society Credits: 3 (2-2-0)
Course Description: Role of wood products in society; spectrum of wood products; some field trips.
Prerequisite: None.
Registration Information: Must register for lecture and laboratory.
Required field trips.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.
F 421 Forest Stand Management Credits: 4 (3-3-0)
Course Description: Forest management plan preparation; forest condition and health assessment; evaluation of silvicultural treatments; implementation and monitoring.
Prerequisites: F 230 and F 321 and F 322 and F 325.
Registration Information: Must register for lecture and laboratory.
Term Offered: Fall.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: Yes.

F 422 Quantitative Methods in Forest Management Credits: 3 (2-2-0)
Course Description: Design and analysis of optimization and nonoptimization models in forest managerial operations.
Prerequisites: F 321 and F 322.
Registration Information: Must register for lecture and laboratory.
Term Offered: Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

F 424 Wildland Fire Behavior and Management Credits: 3 (2-2-0)
Course Description: Policies and strategies for the management of fire and fuels. Fire behavior, fuel treatments, prescribed fire, suppression operations, and prevention.
Prerequisite: LIF 320 or LAND 220 or LIFE 220.
Registration Information: Must register for lecture and laboratory.
Term Offered: Fall.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: Yes.

F 425 Advanced Wildland Fire Behavior and Management Credits: 3 (3-0-0)
Course Description: Advanced strategies, tools, and techniques for wildland fire management: prediction, prevention, suppression, and use for resource benefit.
Prerequisites: F 326 and NR 319.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

F 430 Forestry Field Practices Credits: 3 (1-4-0)
Course Description: Forestry field course, S212 saw certification, collect stand inventory data, develop and implant stand prescription, and harvest and process trees.
Prerequisites: F 330 and F 421.
Registration Information: Must register for lecture and laboratory. Required field trips.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: Yes.

F 466 Urban and Community Forestry Credits: 3 (3-0-0)
Also Offered As: HORT 466.
Course Description: Policies and management of publicly and privately owned community forests in urbanized areas.
Prerequisite: F 310 or RS 310 or HORT 221.
Registration Information: Credit not allowed for both F 466 and HORT 466.
Term Offered: Fall (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

F 487 Professional Forestry Internship Credits: Var[1-18]
Course Description: Professional-level field experience with forestry organization.
Prerequisite: None.
Registration Information: Written consent of department chair.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

F 495 Independent Study Credits: Var[1-18]
Course Description:
Prerequisite: None.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

F 510 Ecophysiology of Trees Credits: 3 (2-3-0)
Course Description: Environmental factors affecting physiology of woody plants; emphasis on water relations in trees and importance of water in physiological processes.
Prerequisite: BZ 440.
Registration Information: Must register for lecture and laboratory.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

F 520 Advanced Quantitative Methods in Forestry I Credits: 3 (3-0-0)
Course Description: Design and analysis of optimization models in forest management operations: linear, goal, and dynamic programming.
Prerequisites: F 322 and MATH 160.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

F 521 Advanced Quantitative Methods in Forestry II Credits: 3 (2-2-0)
Course Description: Analysis of forest inventory information; dynamic and stochastic models oriented to decision making and research in forestry.
Prerequisite: F 520.
Registration Information: Must register for lecture and laboratory.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

F 522 Advanced Forest Economics Credits: 3 (3-0-0)
Course Description: Analysis of forestry issues: financial maturity, management intensity, federal policy, taxation, natural environments, and silviculture.
Prerequisite: ECON 306.
Term Offered: Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

F 524 Forest Fire Meteorology and Behavior Credits: 3 (2-2-0)
Course Description: Effects of atmospheric processes on wild and prescribed fires; interrelationships of weather, fuels, and topography on forest and range fires.
Prerequisite: None.
Registration Information: Must register for lecture and laboratory.
Term Offered: Fall (odd years).
Grade Mode: Traditional.
Special Course Fee: No.
F 525 Silvicultural Practices Credits: 4 (3-0-1)
Course Description: Comprehensive coverage of silvicultural practices as applied in US forestry.
Prerequisite: F 311.
Registration Information: Must register for lecture and recitation.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

F 540 Fuels, Vegetation, and Fire Management Credits: 3 (2-3-0)
Course Description: Develop, test and display the impact of alternative fuels and vegetation treatments on vegetation development, fuels and fire behavior.
Prerequisite: None.
Registration Information: Admission to the Continuing Education in Fuels Management program through the Office of Conference Services.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

F 541 Data Analysis/Interpretation-Fire Managers Credits: 3 (3-0-0)
Course Description: Knowledge and skills for complex analyses of fire information.
Prerequisite: None.
Registration Information: Employment as a wildfire manager. Offered as an online course only.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

F 542 Wildland Fire Economics and Management Credits: 3 (3-0-0)
Course Description: Managerial economics and management techniques applied to wildland fire situations.
Prerequisite: None.
Registration Information: Employment as wildland fire manager.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

F 544 Decision Methods for Fire Managers Credits: 3 (3-0-0)
Course Description: Application of decision methods, including optimization techniques, finance and decision trees to initial attack and fuels management problems.
Prerequisite: None.
Registration Information: Written consent of instructor.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

F 593 Seminar-Fire Science Credit: 1 (0-0-1)
Course Description: 
Prerequisite: None.
Term Offered: Fall.
Grade Mode: Instructor Option.
Special Course Fee: No.

F 624 Fire Ecology Credits: 3 (2-2-0)
Course Description: Fire in forest and range ecosystems; principles and techniques for evaluating fire effects on vegetation, soils, watersheds, and wildlife.
Prerequisite: ECOL 000 to 99999.
Restriction: Must be a: Graduate, Professional.
Registration Information: Must register for lecture and laboratory.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

F 625 Ecology of Forest Production Credits: 3 (3-0-0)
Also Offered As: ESS 625.
Course Description: Develops student expertise in understanding carbon and nutrient flows in forests.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Must have completed one 300-level course in ECOL. Credit not allowed for both F 625 and ESS 625. Sections may be offered: Online.
Term Offered: Spring (even years).
Grade Mode: Traditional.
Special Course Fee: No.

F 693 Seminar Credit: 1 (0-0-1)
Course Description: 
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring.
Grade Mode: Instructor Option.
Special Course Fee: No.

F 695 Independent Study Credits: Var[1-18]
Course Description: 
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

F 698 Research Credits: Var[1-18]
Course Description: 
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

F 699 Thesis Credits: Var[1-18]
Course Description: 
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

F 721 Forest Policy Credits: 3 (3-0-0)
Course Description: Policies and institutions affecting management of forest lands in U.S.
Prerequisite: NR 567.
Restriction: Must be a: Graduate, Professional.
Term Offered: Spring (even years).
Grade Mode: Traditional.
Special Course Fee: No.
F 798 Research Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

F 799 Dissertation Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.