

**FNR 530 Social Systems in Natural Resources Management (3)**

Theories and methods for incorporating community in the management of forest resources. Approaches to conflict resolution between resource owners and community stakeholders using tools such as GIS. 2 lectures, 1 laboratory. Prerequisite: Graduate standing or consent of instructor.

**FNR 532 Applications in Biometrics and Econometrics (4)**

Parametric and semi-parametric statistical methods in modeling biological and economic phenomena. Biometric modeling of stand growth and inventory. Econometric modeling of market and environmental values. 3 lectures, 1 laboratory. Prerequisite: One course in undergraduate statistics, graduate standing, or consent of instructor.

**FNR 534 Forest Ecosystem Modeling (3)**

Methods and modeling approaches used in quantifying ecological processes and conditions associated with forested ecosystems, such as fire behavior, hydrologic processes, terrestrial and aquatic habitat condition using GIS and other models. The Schedule of Classes will list topic selected; sections not repeatable. 2 lectures, 1 laboratory. Prerequisite: One course in undergraduate statistics, graduate standing, or consent of instructor.

**FNR 539 Graduate Internship in Forest Resources(1-9)**

Application of theory to the solution of problems of forest resources or related businesses in the field. Analyze specific management problems and perform general management assignments detailed in a contract between the student, the firm or organization, and the faculty advisor before the internship commences. Degree credit limited to 6 units. Prerequisite: Consent of internship instructor.

**FNR 570 Selected Topics in Forest Resources (1-4)**

Directed group study of selected topics for advanced students. The Schedule of Classes will list topic selected. Total credit limited to 12 units. 1-4 seminars. Prerequisite: Graduate standing or consent of instructor.

**FNR 571 Selected Topics in Forest Resources Laboratory (1-4)**

Directed group laboratory of selected topics for advanced students. The Schedule of Classes will list topic selected. Total credit limited to 12 units. 1-4 laboratories. Prerequisite: Graduate standing or consent of instructor.

**FNR 575 Applications in Advanced Watershed Hydrology (2)**

Techniques and applications in watershed hydrology to real-world projects. Projects could include water quality or quantity assessments, water quality or channel morphology monitoring, and structural and non-structural enhancements for channel and upland watersheds, culminating in a final report and presentation. 2 laboratories. Prerequisite: FNR 420 and graduate standing, or consent of instructor.

**FNR 581 Graduate Seminar in Forestry and Environmental Sciences (3)**

Student study and presentation of selected developments, trends and problems in the field of forest and natural resources. 3 seminars. Prerequisite: Graduate standing or consent of instructor.

**FNR 599 Thesis (1-9)**

Individual research in forest or natural resources management under the general supervision of faculty, leading to a graduate thesis. Degree credit limited to 9 units. Prerequisite: Graduate standing and consent of instructor.

**FR-FRENCH****FR 101, 102, 103 Elementary French I, II, III (4) (4)**

For beginners. Class practice and assigned outside work in pronunciation, sentence structure, reading, writing, and basic conversation. Laboratory drill required. Language taught in its cultural context. Credit not available for students who have completed FR 104. To be taken in numerical sequence. 3 lectures, 1 activity.

**FR 121, 122 Intermediate French I, II (4) (4)**

Review of French grammar and practice in writing and oral expression within a cultural context. To be taken in numerical sequence. 3 lectures, 1 activity. Prerequisite: FR 103 or consent of instructor.

**FR 233 Critical Reading in French Literature (4) GE C1**

Selected readings in French from major Francophone authors that illustrate the French literary tradition from the Middle Ages to the present in both France and other French-speaking countries. 4 lectures. Prerequisite: Completion of GE Area A, and FR 122.

**FR 301 Advanced French Composition and Grammar (4)**

Oral and written development of structural grammar, syntax and complex components of French. Expansion of vocabulary and idiomatic expressions through text study. Translation from English to French and written composition. 4 lectures. Prerequisite: Consent of instructor.

**FR 302 Advanced French Conversation and Grammar (4)**

Topics focus on culture and selected grammar points. Outlines and/or abstracts constitute written assignments. Individual presentations to elicit spontaneous response. Group presentations to allow cooperative research and preparation. 4 lectures. Prerequisite: Consent of instructor.

**FR 305 Significant Writers in French (4) GE C4**

Critical analysis and oral discussion of poetry, essays, novels, and plays by selected French and Francophone writers. The Schedule of Classes will list topic selected. Total credit limited to 12 units. 4 lectures. Prerequisite: Completion of GE Area A, and FR 233. Modern Languages and Literatures majors will not receive GE C4 credit.

**FR 322 French Food in French (4) (Also listed as FSN 322)**

Blend of French language, culture, food preparation techniques, and basic food chemistry and nutrition. Total immersion in language and cooking: preparation of French food while interacting in French with classmates and instructors, in lectures, discussion, and laboratory. 3 lectures, 1 laboratory. Prerequisite: FR 103 or consent of instructor.

**FR 350 French Literature in English Translation (4) GE C4**

Selected works to be read by students in English translation. Critical analysis, interpretation, and comparison of works by significant French and/or Francophone writers. Lecture in English. The Schedule of Classes will list topics selected. Total credit limited to 8 units. 4 lectures. Prerequisite: Completion of GE Area A and one course in Area C1. Modern Languages and Literatures majors will not receive GE C4 credit.

**FR 470 Selected Advanced Topics (1-4)**

Directed group study of selected topics for advanced students. Open to undergraduate and graduate students. The Schedule of Classes will list topic selected. Total credit limited to 8 units. 1 to 4 lectures. Prerequisite: Consent of instructor.

**FRSC-FRUIT SCIENCE****FRSC 123 Beekeeping (3)**

Studies and exercises in the handling of European honey bees with special reference to pollination of commercial crops. Honey processing and marketing. Hive inspection and disease detection. 2 lectures, 1 laboratory.

**FRSC 132 Pomology I (4)**

Orchard design and development, cultural practices, physiological responses of trees to cultural practices, propagation and strategies to maximize orchard profitability and sustainability. 3 lectures, 1 laboratory. Prerequisite: HCS 120.

**FRSC 133 Pomology II (4)**

Analysis of production and management strategies for major fruit and nut crops in California. 3 lectures, 1 laboratory. Prerequisite: FRSC 132.

**FRSC 202 Enterprise Project (2-4) (CR/NC)**

Beginning field experience in management of orchards and vineyards or honeybees, under faculty supervision. Project participation is subject to approval by the department head and the Cal Poly Corporation. Degree credit limited to 4 units. Credit/No Credit grading only. 1 lecture, variable practicum. Prerequisite: HCS 110, or consent of instructor.

**FRSC 210 Viticultural Practices (2)**

Propagation, layout and planting of a new vineyard, including irrigation and trellis system installations and management practices of established vineyards. Total credit limited to 4 units. 2 activities.