Forest Engineering - FOEN

Courses

FOEN 3000 INTRODUCTION TO FORESTRY OPERATIONS (1) LEC. 3, FLD/LEC. 32. Pr. FORY 3050 and FOPR 3390. Introduction to basic field operations in Forestry including site preparation and planting, harvesting and primary manufacturing processes relative to specific geographic locations. Four-day continuous field trip prior to spring or fall semester.

FOEN 3040 FOREST SURVEYING (2) PRA. 2. Basic land surveying concepts and procedures as applied to Forestry. Use of basic surveying instruments and calculations for land areas, boundaries, and topographic features. Summer.

FOEN 4730 APPLICATION OF TIMBER HARVESTING TECHNIQUES (2) LEC. 1. LAB. 3. Pr. FOEN 5700. Business considerations including safety, regulations, contracts, deeds and cost accounting and analysis combined with equipment operation and maintenance. Fall.

FOEN 4930 DIRECTED STUDIES (1-3) IND. Departmental approval. Faculty supervision of individual student investigations of specialized problems in forest engineering. Course may be repeated for a maximum of 6 credit hours.

FOEN 4967 HONORS SPECIAL PROBLEMS (1-3) IND. Pr. Honors College. Departmental approval. Topics of an undergraduate nature pertinent to Forest Engineering. Fall, Spring, and Summer. Course may be repeated for a maximum of 3 credit hours.

FOEN 4970 SPECIAL TOPICS (1-4) LEC. Departmental approval. Individual or small group study of a specialized area in forest engineering. Fall, Spring, and Summer. Course may be repeated for a maximum of 8 credit hours.

FOEN 4997 HONORS THESIS (1-6) IND. Pr. Honors College. Departmental approval. Directed research and Honors Thesis. Fall, Spring, and Summer. Course may be repeated for a maximum of 6 credit hours.

FOEN 5230 ENGINEERED WOOD STRUCTURE DESIGN (3) LEC. 2. LAB. 3. Pr. ENGR 2070. Load, deflection criteria; engineering characteristics of wood; designing wood components and mechanical connections; shear walls and diaphragms; trusses; bridges; post-frame construction. Fall.

FOEN 5700 HARVESTING (3) LEC. 2. LAB. 3. Pr. FORY 3180. Analysis of the administration of timber harvest, equipment choice, planning methods, movement of timber products, machine and system costs, balancing of harvesting systems, logging safety, and environmental impact. Spring.

FOEN 5710 TIMBER HARVESTING ANALYSIS METHODS (3) LEC. 2. LAB. 3. Pr. FOEN 3000. Analysis methods for timber harvesting productivity and costs including gathering of time and production data, preparation of data for analysis and statistical modeling. Spring.

FOEN 6230 ENGINEERED WOOD STRUCTURE DESIGN (3) LEC. 2. LAB. 3. Pr. ENGR 2070. Load, deflection criteria; engineering characteristics of wood; designing wood components and mechanical connections; shear walls and diaphragms; trusses; bridges; post-frame construction. Fall.

FOEN 6700 HARVESTING (3) LEC. 2. LAB. 3. Pr. FORY 3180. Analysis of the administration of timber harvest, equipment choice, planning methods, movement of timber products, machine and system costs, balancing of harvesting systems, logging safety, and environmental impact. Spring.

FOEN 6710 TIMBER HARVESTING ANALYSIS METHODS (3) LEC. 2. LAB. 3. Pr. FOEN 3000. Analysis methods for timber harvesting productivity and costs including gathering of time and production data, preparation of data for analysis and statistical modeling. Spring.

FOEN 7930 DIRECTED STUDIES (1-3) IND. Departmental approval. Faculty supervision of individual student investigations of advanced specialized problems in forest engineering. Fall, Spring, and Summer. Course may be repeated for a maximum of 9 credit hours.

FOEN 7970 SPECIAL TOPICS (1-4) LEC. Departmental approval. Individual or small group study of an advanced specialized area in forest engineering. Fall, Spring, and Summer. Course may be repeated for a maximum of 12 credit hours.