Students in the forest technology (FORT) program are uniquely prepared for careers in forestry, forest industries and natural resource management in New Hampshire and New England. Classroom lecture is supported by practical field work in each of the subject areas. The educational program in Forest Technology leading to the Associate in Applied Science degree is accredited by the Society of American Foresters (SAF) (https://www.eforester.org) (the first two-year program in the U.S. to complete the accreditation application process) and reviewed by an advisory committee representing the full spectrum of forestry organizations in the region. There is a strong emphasis on leadership, safety, communication skills, accuracy of field work, data collection, and professional presentation. Unique facilities for teaching and learning include centrally located classroom and shop facilities; 3,000+ acres of University-owned forest land (http://colsa.unh.edu/woodlands); a new sawmill and Forest Industries Training Center (FITC); logging equipment; technology advanced navigation, data collection, and analysis equipment; and a faculty with vast field experience in the subject areas and who are dedicated to teaching.

https://colsa.unh.edu/thompson-school-applied-science

### Programs

- Forest Technology (A.A.S.) (http://catalog.unh.edu/undergraduate/applied-science/programs-study/forest-technology/forest-technology-aas)

### Courses

#### Forest Technology (FORT)

**FORT 461 - Dendrology**  
Credits: 3  
Identification and nomenclature of forest trees and shrubs which are important to the ecology and economy of the Northeastern forest. The study of forested plant relationships with other plants, animals, soil, and site regimes. 1 lec/1 2-hr lab.  
**Equivalent(s):** FORT 261

**FORT 466 - Forest Surveying and Mapping**  
Credits: 4  
Provides instruction and experience in running cruise lines and in the survey and identification of rural property measurement. The focus is on field surveying techniques and problem solving of special importance to foresters. Use of magnetic survey data in rural property measurement. Skill and efficiency is developed in analyzing field survey data, plotting, lettering and finishing topographic and planimetric maps, and road plans, both manually and by Computer Assisted Drafting using multiple software applications. Special Fee.  
**Equivalent(s):** FORT 266

**FORT 470 - Applied Silviculture**  
Credits: 4  
Silvicultural practices in the U.S. including reforestation systems. Improvement of forest stands employing the basic tending practices of weeding, thinning, and pruning. Marking of stands prior to logging operations. Prereq: permission of instructor or FORT 461 and FORT 463. 2 lec/1 4-hr lab. Special Fee.  
**Equivalent(s):** FORT 270

**FORT 490 - NH Sustainable Forest Resource**  
Credits: 4  
An overview of forestry in New Hampshire and the northeast. History shows how our forests have been used in the past and how they developed into what we see today. Discover the science of Forest Ecology and Silviculture and how foresters use these to manage our forests sustainably for a variety of forest products. Learn how these products are harvested, processed and used. Understand how pathogens and pests can threaten our forests. On-line course.  
**Equivalent(s):** FORT 290

**FORT 527 - Forest Ecology**  
Credits: 4  
Introduces basic and applied ecology of forests, with emphasis on ecosystem processes, including water, energy, and nutrient cycles; biological interactions, including biodiversity and plant-plant, plant-animal, and plant-microbe relationships; and human impacts, including forest management, land-use/land-cover change, and changes in atmospheric chemistry.  
**Equivalent(s):** NR 527

**FORT 564 - Arboriculture**  
Credits: 3  
Tree selection, care, and maintenance in the urban environment. Includes climbing, safety practices, pruning, hazard tree assessment, and removals. Prereq: FORT 463 or permission. 1 lec/1 4-hr lab. Special Fee.  
**Equivalent(s):** FORT 264, FORT 464

**FORT 567 - Leadership, Supervision, & Safety**  
Credits: 2  
Fundamentals of leadership and supervision including effective communication in the workplace and public sector are explored. Project management, personnel training and motivation, plus problem-solving and conflict resolution applied through a practical community service forestry project. Accident prevention, first aid, and CPR instruction also included. 2 lec.  
**Equivalent(s):** FORT 267

**FORT 572 - Mensuration**  
Credits: 4  
Field application of forest inventory and timber cruising techniques. Measurement of tree form, volume, quality, and defect. Growth prediction of individual trees and stands. Use of basic statistical methods as a tool in cruising. Prereq: FORT 461 or instructor permission. 2 lec/1 4-hr lab. Special Fee.  
**Equivalent(s):** FORT 272

**FORT 573 - Management Operation & Analysis**  
Credits: 3  
Forest appraisal and valuation methods, timber sale contracts, depreciation and depletion calculations, forest taxation. Essentials of forest regulation and management planning. 2 lec/1 2-hr lab. Special Fee.  
**Equivalent(s):** FORT 273

**FORT 574 - Industrial Forest Management Tour**  
Credits: 1  
Concentrated field experience and intensive observations of industrial, private, and federal forest holdings and facilities; emphasizing forest utilization and management operations as currently practiced in New England. One week of concentrated field study. Cr/F. Forest Technology majors only. Special Fee.
FORT 576 - Forest Products
Credits: 4
Basics of structure and properties of wood as a raw material. Conversion of logs to lumber at Thompson School sawmill. Lumber and log grading and measuring. Studies in processing efficiency, lumber drying, and physical plant operations. Introduction to paper, veneer, and chip products. Marketing of forest products. 2 lec/1 4-hr lab. Special Fee.
Equivalent(s): FORT 276, FORT 476

FORT 577 - Forest Harvesting Systems
Credits: 4
A study in harvesting methods and their relation to forest management and silviculture of the state and region. Theory and practice of conventional harvesting systems including hands-on application of techniques with a strong emphasis on protection of the environment and the safety and health of workers. Department permission for non-majors. 2 lec/4-hr lab. Special Fee.
Equivalent(s): FORT 277

FORT 578 - Forest Insects & Diseases
Credits: 2
An introduction to the role of forest insects and microorganisms in the context of managing woodlands. Students learn to recognize the signs and symptoms of insect and disease damage in forest trees and products. They study the life cycles and identify common forest insect and disease pests impacting North American tree species. Pest management methods are introduced. 1 lec/3-hr lab. Special Fee.
Equivalent(s): FORT 278

FORT 579 - Forest Fire Control and Use
Credits: 2
A study in basic fire ecology and instruction in forest fire suppression methods. Interactions of forest fuels, topography, and weather as they affect forest fire behavior. Use of controlled fire as a tool in forest and wildlife management. When appropriate, field work will include actual burning. Special Fee.
Equivalent(s): FORT 279, FORT 479

FORT 581 - Applied Geospatial Techniques
Credits: 4
Geographic Information Systems (GIS) are integral to natural resource management and these technologies/software have become widespread throughout various fields. Proficiency in fundamental GIS skills is imperative for resource managers. Students will 1) develop an understanding of imagery acquisition and remote sensing systems/technologies; 2) develop skills in identification, interpretation, and mapping of land/vegetation features, including an understanding of map projection; 3) gain experience in GIS software to perform fundamental geoprocessing and mapping techniques.
Equivalent(s): FORT 281

FORT 591 - Independent Studies in Forest Technology/Urban Tree Care
Credits: 1-4
Students who have the ability and adequate preparation to work independently may propose a contract to design a course or research project on a topic not available through existing course offerings. The purpose of this research is to explore new areas in the student's field of study or to pursue course material in greater depth. Work is supervised by an appropriate faculty/staff member and credit varies depending on the proposed project/research. Examples include forest management, forest products, forest protection, wildlife management, or urban tree care. Permission required. Course may be repeated up to a maximum of 8 credits.
Equivalent(s): FORT 291

FORT 592 - Independent Studies in Forest Technology/Urban Tree Care
Credits: 1-4
Students who have the ability and adequate preparation to work independently may propose a contract to design a course or research project on a topic not available through existing course offerings. The purpose of this research is to explore new areas in the student’s field of study or to pursue course material in greater depth. Work is supervised by an appropriate faculty/staff member and credit varies depending on the proposed project/research. Examples include forest management, forest products, forest protection, wildlife management, or urban tree care. Permission required. Course may be repeated up to a maximum of 8 credits.
Equivalent(s): FORT 292

FORT 597 - Work Experience
Credits: 0
Career-related employment (10 weeks, generally in the summer following freshman year) in a forestry, urban tree care, or other department-approved natural resources area. Cr/F.
Equivalent(s): FORT 297

Faculty
https://colsa.unh.edu/thompson-school-applied-science/people