

pruning and other forest improvement activities. Work with the Best Management Practices, Environmental Impact Statements, and various environmental management programs. Training in pesticides and herbicides. Introduction to educational programs such as Project Learning Tree and Project Wild, plus work with Urban Forestry.

**FOREST PROTECTION** [108 hours; 65% field/lab work]. Protecting the forest from fire, insects, disease, wild and domestic animals, and environmental effects both natural and man caused. Identification of problems and how to plan corrective management programs. Fire control planning. An insect collection is required.

**FOREST SURVEYING** [158 hours; 65% field/lab work]. Use of the hand compass, staff compass, engineer's level, and transit to locate land lines, measure angles, and determine elevations. Knowledge of both the "metes and bounds" and "rectangular" land survey systems. Location of deeds in courthouse records and the checking of titles. Area calculations, road and trail lay outs; topographic surveys; and property traverses. Computer uses in surveying and engineering. Maintenance of property boundaries.

**FOREST MAPPING** [128 hours; 65% field/lab work]. Ability to draw maps from field notes. Use maps of various types in daily field forestry operations. How to map timber types; reforestation and other silvicultural operation areas; protection problems; and other data collected in silviculture II. Draw topographic and property maps from data collected in Surveying. Elements of orienteering and aerial photogrammetry use and interpretation are covered.

**FOREST HARVESTING** [55 hours; 65% field/lab work]. Basic knowledge of harvesting equipment from chain saws to transportation equipment. The laying out of logging areas for efficient operations. Conduction of BMP Inspections. Lay out of SMZ's and wetlands. Supervision of timber sales and cutting inspections. Basics of timber sale legal instruments and elements of raw materials procurement. OSHA and other state and national work and safety standards.

### TRIMESTER III

**FOREST MEASUREMENTS** [300 hours; 65% field/lab]. Timber cruising (20 day minimum) and determination of various forest products that could be produced from the forest. Measurement of other forest resources--wildlife, recreation, forage, and water. Scaling of forest products. Use of various equipment for precision measurements and ocular estimation development for quick measurements.

**FOREST PRODUCTS** [80 hours; 65% field/lab]. Study of primary and secondary forest products. Observation of manufacturing processes; quality control inspection systems; and the utilization of wastes. Investigation of local, regional, national, and world resources and products. Look at product research.

**FOREST BUSINESS METHODS** [80 hours; 65% field/lab]. Study of forest management procedures such as timber cruise workups; importance of keeping field and business records; growth projections; contracts; tax information; damage appraisals; compound interest problems; and preparation of management plans. The development of various natural resource management plans will coincide with the Forest

Measurements course. How to plan forest operations, keep payroll records, and fill various bids and forms will be covered.

**FOREST PERSONNEL MANAGEMENT AND SAFETY** [80 hours; 50% field/lab work]. The principles of foremanship is covered with field personnel problems and analysis situations of actual jobs. Management styles are studied along with record keeping necessity. Labor relations; OSHA requirements; safety meetings; hazardous materials handling; and personal safety are covered. CPR and first aid training are given.

**WILDLIFE ECOLOGY** [84 hours; 65% field/lab work]. Wildlife habitat management and population dynamics are covered. Hunting and leasing operations; hunter safety; wildlife survey methods; game food identification; game food plot establishment and maintenance; and the legal requirements of wildlife management are covered. A game food collection may be required.

### EMPLOYMENT

Due to the superior training and hands-on education given to Forest Technicians graduating from Panola College in the past; our graduates are highly sought after by governmental and private sources. Panola College does not guarantee employment upon graduation, but over the years at least 86 percent of our students have been on the job within 45 days of finishing. Panola College does assist the students in finding their first job and also in relocating later if a change is desired. Only those students who limit themselves by having a narrow choice of jobs, locations, or salaries are hard to place. Even in these cases, over half have been placed given enough time.

The following is a partial list of who has hired our graduates in the past (it does not include all of them who have send Panola job notices or attempted to hire our students).

U.S. Forest Service - TX, AR, OK, LA, MN, MT, PA  
 Soil Conservation Service - TX  
 Bureau of Land Management - OR  
 National Park Service - MT, WA, WY  
 Corps of Engineers - TX, OK  
 Texas Forest Service - all over eastern TX  
 Texas Parks and Wildlife Department - Wildlife Division  
 Texas Parks and Wildlife Department - Parks Division  
 South Carolina Fish and Wildlife Commission  
 Private Industrial Companies: International Paper (TX, AR, LA, MS); Champion International (TX); Georgia-Pacific (FL, AR, TX); Louisiana-Pacific (TX); Temple-Inland (TX); Riverwood International (LA, TX); Hood Industries (LA); Weyerhaeuser (AR, OK); Snider Forest Industries (TX); Anderson Lumber Company (TX); Dean Lumber Company (TX).  
 Pole, Piling, Post Companies - TX, LA  
 Private Logging Contractors and Timber Buyers - TX, LA, AR  
 Major Forest Consultants: James Vardaman (GA, TX, AR, LA); P & M (AR, OK)  
 Individual Forest Consultants - TX, LA, AR, MS  
 Surveyors - TX, LA, FL, CA, AR