

COURSE DESCRIPTIONS

<p>252FAM Crse ID: 000662 3 credits Introduction to Family Science Introduction to the scientific study of the family. Topics covered will include the important theoretical frameworks in family science, historical trends in marriage and family life, gender role theory, family life cycle theory, parenthood, communication, economics of family life, conflict, divorce, step-families, and step-parenting, family strengths. Students will analyze contemporary family issues and take informed, written positions on those issues. Subject: 192</p>	<p>101FPX Crse ID: 001465 2 credits Fluid Power Lab This course provides practical experiences in the study of fluid power theory, hydraulics and pneumatics component identification, schematic reading, and basic calculations related to hydraulic and pneumatic systems and their operations. Corequisite: FPX 100 Subject: 471</p>
<p>253FAM Crse ID: 000666 3 credits Human Sexuality: Development, Behavior, and Attitudes Study of human sexuality, including the process of gender differentiation, sexual response patterns, sexual behavior, and attitudes. Prereq: Three hours in social or behavioral science. Subject: 192</p>	<p>101FR Crse ID: 000866 4 credits Elementary French The study of basic French through grammar, reading, and oral practice. Subject: 162</p>
<p>100FEX Crse ID: 001462 3 credits Fundamentals of Electricity for Non-Majors This course introduces non-majors to the basic physics of electricity. Students apply Ohm's law; measure resistance, voltage, ohms, watts and amps; construct various types of electrical circuits; select wire and fuse sizes; and learn to troubleshoot an electric motor and coil. Prerequisites: None Subject: 461</p>	<p>102FR Crse ID: 000754 4 credits Elementary French A continuation of FR 101. The study of basic French through grammar, reading, and oral practice. Prereq: FR 101. Subject: 162</p>
<p>100FHM Crse ID: 001463 2 credits Dosage Calculations Provides an overview of basic math skills, a thorough knowledge of the system of measurement and conversion, and application skills to perform dosage calculations. Emphasis is placed on unit analysis to calculate medication dosages. Prerequisites: None Subject: 323</p>	<p>201FR Crse ID: 000874 3 credits Intermediate French Reading, conversation, and oral comprehension are the basic aims of this course, which is structured around contemporary texts. Prereq: FR 102 or two years of high school French and placement test. Subject: 162</p>
<p>100FOR Crse ID: 002217 3 credits Introduction to Forestry A brief coverage of the general fields of forestry; development and importance; tree growth; principal forest regions and important timber species; forest management practices; utilization and products; state and federal forestry programs. Subject: 032</p>	<p>202FR Crse ID: 000811 3 credits Intermediate French A continuation of FR 201. Prereq: FR 201 or three years of high school French and placement test. Subject: 162</p>
<p>101FOR Crse ID: 002201 3 credits Introduction to Wildlife Conservation An introduction to the history, concepts, and principles of wildlife biology and management. The role of wildlife in ecological systems and human-altered environments will be discussed. Lecture, two hours; laboratory, two hours per week. Subject: 032</p>	<p>101FRS Crse ID: 001466 3 credits Introduction to Fire Service This course includes fire department organization, fire behavior, firefighter safety, personal protective equipment, portable fire extinguishers, fire hose, appliance and streams. Prerequisites: None Subject: 431</p>
<p>100FPX Crse ID: 001464 3 credits Fluid Power This course is a study of fluid power theory, component identification and application, schematic reading, and basic calculations related to pneumatic and hydraulic systems and their operations. Corequisite: FPX 101 Subject: 471</p>	<p>102FRS Crse ID: 001467 3 credits Firefighters Basic Skills I This course includes ropes, ladders, aircraft rescue, forcible entry, first aid, bloodborne pathogens, and emergency disaster planning, and CPR. Prerequisites: None Subject: 431</p>
	<p>103FRS Crse ID: 001468 3 credits Firefighters Basic Skills II This course includes building construction, wildland fire fighting, fire control and ventilation. Prerequisites: None Subject: 431</p>
	<p>104FRS Crse ID: 001469 3 credits Firefighters Intermediate Skills I This course includes water supply, foam fire streams, fire alarms and communications, hazardous materials awareness, hazardous materials operations, sprinklers, and salvage and overhaul. Prerequisites: None Subject: 431</p>

<p>105FRS Crse ID: 001470 3 credits Firefighters Intermediate Skills II This course includes fire department organization, fire behavior, personal protective equipment, fire hose, appliances and streams, ropes, forcible entry. Prerequisites: None Subject: 431</p>	<p>096FRT Crse ID: 004166 0 credits Special Topics in Hazardous Materials This course includes subjects related to the response to hazardous materials incidents, to include but not limited to: Subject:</p>
<p>201FRS Crse ID: 001471 3 credits Firefighters Advanced Skills I Firefighters Advanced Skills I includes firefighter safety, rescue, ventilation, ladders, fire control, and emergency disaster planning. Prerequisites: None Subject: 431</p>	<p>097FRT Crse ID: 004165 0 credits Special Topics in Emergency Medical Services This course includes subjects related to the provision of emergency medical services, to include but not limited to: CPR, first aid, first responder medical, emergency medical technician (EMT), and EMS continuing education. Prerequisites: None. Subject: 431</p>
<p>202FRS Crse ID: 001472 3 credits Firefighters Advanced Skills II Firefighters Advanced Skills II includes portable fire extinguishers, water supply, pump operations, foam fire streams, salvage, fire prevention, public education, and fire cause determination. Prerequisites: None Subject: 431</p>	<p>098FRT Crse ID: 004164 0 credits Special Topics in Rescue This course includes subjects related to technical rescue services, to include but not limited to: vehicle rescue, confined space rescue, high angle rescue, water rescue, and farm rescue. Prerequisites: None. Subject: 431</p>
<p>203FRS Crse ID: 001473 3 credits Firefighters Advanced Skills III Firefighters Advanced Skills III includes pump operations II, drivers training, overhaul, fire alarms and communications, sprinklers, and practicum. Prerequisites: None Subject: 431</p>	<p>099FRT Crse ID: 004163 0 credits Special Topics in Firefighting This course includes subjects related to fire department services, to include but not limited to: fire prevention, fire suppression, company officer leadership, communications, building construction, and cause and origin investigations. Prerequisites: None. Subject: 431</p>
<p>204FRS Crse ID: 001474 3 credits EMT First Responder EMT First Responder includes first responder (EMS). Prerequisites: None Subject: 431</p>	<p>100FRT Crse ID: 003890 0.7 credits Fire Department Organization This course includes an overview of fire department organization, the role of department members, the mission of the department, standard operating procedures, rules and regulations, components of management, introduction to the Incident Command System and the roles of other agencies. Subject: 431</p>
<p>205FRS Crse ID: 001475 5 credits Fire Officer I Fire Officer I includes incident safety officer, haz-mat tech., fire prevention, public education and fire cause determination II. Prerequisites: None Subject: 431</p>	<p>101FRT Crse ID: 003891 0.3 credits Fire Behavior This course explores the aspects of the behavior of fire in its various forms. It looks at the classification of fuel, products of combustion, and safety issues related to life hazards. It explains the three physical states of matter in which fuels are commonly found. Subject: 431</p>
<p>206FRS Crse ID: 001476 8 credits Fire Officer II Fire Officer II includes EMT, managing company tactical operations, decision making, and instructional techniques for company officers. Prerequisites: None Subject: 431</p>	<p>102FRT Crse ID: 003892 0.4 credits Firefighter Safety This course introduces the concept of safety in all phases of fire department operations. It will cover station safety in normal day to day fire department operations as well as emergency response. Subject: 431</p>
<p>207FRS Crse ID: 001477 6 credits Fire Officer III Fire Officer III includes company officer, incident command system (ICS), leadership strategies for company success, and fire/arson detection. Prerequisites: None Subject: 431</p>	<p>103FRT Crse ID: 003893 0.8 credits Personal Protective Equipment The course addresses the nomenclature, use, maintenance, and documentation relative to the personal protective equipment including protective clothing and self-contained breathing apparatus. Subject: 431</p>
<p>095FRT Crse ID: 004167 0 credits Special Topics in Industrial Fire Protection This course includes subjects related to the provision of fire protection in the industrial setting, to include but not limited to: fire extinguisher operations, fire alarm systems, fire protection systems, incipient fire brigade operations, and structural fire brigade operations. Prerequisites: None. Subject: 431</p>	

104FRT Crse ID: 003894	0.2 credits	112FRT Crse ID: 003902	0.1 credits
Portable Fire Extinguishers		Emergency Disaster Planning	
Relates to the types, classification and use of fire extinguishers including the definitions utilized in rating each type and the selection of a given extinguisher in attaching a particular class of fire.		Commanding the Initial Response is designed to give the participant the information and skills necessary to establish command, perform size-up, develop and implement an action plan, transfer command, and organize an incident using an effective command system.	
	Subject: 431		Subject: 431
105FRT Crse ID: 003895	0.5 credits	113FRT Crse ID: 003903	0.2 credits
Fire Hose, Appliances and Streams		Forcible Entry	
This course introduces the student to the types, uses and operations of fire hose, appliances and streams used in the fire service.		This course is designed to identify materials and construction features of doors, windows, walls, door and window locking devices. The students will make forced entry through at least three different types each of doors, windows, and walls. The course discusses maintenance of tools and equipment used for forced entry and safety factors.	
	Subject: 431		Subject: 431
106FRT Crse ID: 003896	0.2 credits	114FRT Crse ID: 003904	0.5 credits
Ropes		CPR	
Relates to the use and maintenance of rope and the various ties useful to hoisting equipment, securing objects and rescue. Prerequisites: FRT 102, FRT 103.		This course provides the knowledge and skills for administering care for respiratory or cardiac arrest including airway, breathing, and circulation assessment and the procedures to eliminate blockage of the airway, provide breathing assistance, and cardiac compressions. Corequisites: FRT 110	
	Subject: 431		Subject: 431
107FRT Crse ID: 003897	0.6 credits	115FRT Crse ID: 003905	0.7 credits
Ladders		Building Construction	
This course covers basic information pertaining to the use of ladders in the fire service including ladder terminology, types of ladders and ladder carries and raises. Prerequisites: FRT 102, FRT 103, FRT 106.		This course is designed to improve the ability of students to assess building stability and resistance to fire. This will aid students in protecting the lives of firefighters and community residents, while improving operational effectiveness through more complete and accurate "size-ups." As our resources and experience are matched with those brought to the classroom by both students and instructors, each course delivery will fulfill in part the Academy's mission — to upgrade the skills of our nation's fire service.	
	Subject: 431		Subject: 431
108FRT Crse ID: 003898	0.4 credits	116FRT Crse ID: 003956	0.5 credits
Aircraft Rescue		Wildland Fire Suppression Operations	
This course provides the basic information needed by firefighters to effectively perform the various tasks involved in aircraft firefighting and rescue. The information is consistent with the recommendations in NFPA 1003 Standard for Professional Qualifications for Airport Firefighters. 1987 edition.		This course covers information pertaining to wildland fire suppression operations including personal protective equipment, policies, fire behavior and tactics.	
	Subject: 431		Subject: 431
109FRT Crse ID: 003899	0.4 credits	117FRT Crse ID: 003906	1.4 credits
Rescue		Fire Control	
This course addresses the procedures of search for location, and removal of entrapped and/or injured persons under fire conditions, and identifies the equipment required by the National Fire Protection Association used to effect the procedures. Prerequisites: FRT102, FRT 107.		This course was designed to teach the student to control or extinguish stacks of Class A materials, combustible liquids, vehicle fires, exterior dumpster/trash bin, and Class A combustible materials within a structure. Prerequisites: FRT 100, FRT 101, FRT 102, FRT 103, FRT 105, FRT 113. Corequisite: FRT 118.	
	Subject: 431		Subject: 431
110FRT Crse ID: 003900	0.3 credits	118FRT Crse ID: 003907	0.4 credits
First Aid		Ventilation	
This course addresses the knowledge and skills for administering first aid including the assessment and treatment of patients sustaining injury or sudden illness until a higher level of trained emergency care technician arrives. Corequisites: FRT 114.		This course involves the study of the principles of ventilation, including the methods of removing heated air, smoke and gases from a structure. This course will include a review of roof structures and their effects on ventilation procedures. Prerequisites: FRT 102, FRT 103, FRT 107. Corequisite: FRT 117.	
	Subject: 431		Subject: 431
111FRT Crse ID: 003901	0.3 credits		
Bloodborne Pathogens			
This course provides bloodborne pathogens education for emergency responders, health professionals, and others who are subject to exposure in the 1) transmission; 2) prevention and control; 3) treatment; 4) legal issues; and 5) attitudes and behavior regarding human infections, and covers requirements of OSHA 1910.1030.			
	Subject: 431		

<p>119FRT Crse ID: 003941 0.4 credits</p> <p>Water Supply</p> <p>This program is designed to provide the firefighter with a general understanding of water systems. The information included in this unit will broaden the base of understanding of a water supply system and how it works. This program will cover hydrant systems as well as static water sources for determining their value as a firefighter water supply source. Prerequisites: FRT 101, FRT 102, FRT 105.</p> <p style="text-align: right;">Subject: 431</p>	<p>128FRT Crse ID: 003909 0.4 credits</p> <p>Fire Behavior II</p> <p>This course describes the chemistry and behavior of fire. It looks at finely divided fuel, flash point, ignition temperatures and heat sources. Prerequisites: FRT 100, FRT 101, FRT 102, FRT 103, FRT 104, FRT 105, FRT 106, FRT 107, FRT 108, FRT 109, FRT 110, FRT 111, FRT 112, FRT 113, FRT 114, FRT 115, FRT 117, FRT 118, FRT 119, FRT 120, FRT 121, FRT 122, FRT 123, FRT 124, FRT 125, FRT 126.</p> <p style="text-align: right;">Subject: 431</p>
<p>120FRT Crse ID: 003942 0.2 credits</p> <p>Foam Fire Streams</p> <p>This course is designed to instruct the student in foam performance, extinguishing properties and types of foam used in the fire service today. Prerequisites: FRT 101, FRT 102, FRT 105.</p> <p style="text-align: right;">Subject: 431</p>	<p>129FRT Crse ID: 003910 0.5 credits</p> <p>Personal Protective Equipment II</p> <p>FRS 105 Firefighters Intermediate Skills II - shall include Fire Department Organization II, Fire Behavior II, Personal Protective Equipment II, Fire Hose, Appliances, Streams II, Ropes II, and Forcible Entry II. Prerequisites: FRT 100, FRT 101, FRT 102, FRT 103, FRT 104, FRT 105, FRT 106, FRT 107, FRT 108, FRT 109, FRT 110, FRT 111, FRT 112, FRT 113, FRT 114, FRT 115, FRT 117, FRT 118, FRT 119, FRT 120, FRT 121, FRT 122, FRT 123, FRT 124, FRT 125, FRT 126.</p> <p style="text-align: right;">Subject: 431</p>
<p>121FRT Crse ID: 003943 0.3 credits</p> <p>Salvage</p> <p>This course reviews salvage methods and operating procedures that further reduce fire, water, and smoke damage during and after fires. Prerequisites: FRT 102, FRT 103, FRT 113, FRT 117.</p> <p style="text-align: right;">Subject: 431</p>	<p>130FRT Crse ID: 003911 0.6 credits</p> <p>Fire Hose, Appliances and Streams II</p> <p>This course will cover the selection, maintenance and testing of fire hose, nozzles and appliances. Prerequisites: FRT 100, FRT 101, FRT 102, FRT 103, FRT 104, FRT 105, FRT 106, FRT 107, FRT 108, FRT 109, FRT 110, FRT 111, FRT 112, FRT 113, FRT 114, FRT 115, FRT 117, FRT 118, FRT 119, FRT 120, FRT 121, FRT 122, FRT 123, FRT 124, FRT 125, FRT 126.</p> <p style="text-align: right;">Subject: 431</p>
<p>122FRT Crse ID: 003944 0.1 credits</p> <p>Overhaul</p> <p>This program is designed to provide the firefighter with a general understanding of the purpose and scope of overhaul, including recognition of hidden fires and methods used to separate, remove, and relocate charred materials. Prerequisites: FRT 101, FRT 102, FRT 103, FRT 113, FRT 118.</p> <p style="text-align: right;">Subject: 431</p>	<p>134FRT Crse ID: 003915 0.7 credits</p> <p>Ladders II</p> <p>FRS 106 Firefighters Advanced Skills I - shall include Firefighter Safety II, Ladders II, Rescue II, Ventilation II, Fire Control II, an Emergency Disaster Planning II. Prerequisites: FRT 100, FRT 101, FRT 102, FRT 103, FRT 104, FRT 105, FRT 106, FRT 107, FRT 108, FRT 109, FRT 110, FRT 111, FRT 112, FRT 113, FRT 114, FRT 115, FRT 117, FRT 118, FRT 119, FRT 120, FRT 121, FRT 122, FRT 123, FRT 124, FRT 125, FRT 126.</p> <p style="text-align: right;">Subject: 431</p>
<p>123FRT Crse ID: 003945 0.2 credits</p> <p>Fire Alarms and Communications</p> <p>This course covers basic information pertaining to fire alarms and communications including radio operations, alarm receiving equipment, and dispatching procedures.</p> <p style="text-align: right;">Subject: 431</p>	<p>141FRT Crse ID: 003922 0.5 credits</p> <p>Pump Operations Level I</p> <p>This course includes the minimum requirements of professional competence of fire service pump operators. Prerequisites: FRT 102, FRT 103, FRT 105, FRT 119.</p> <p style="text-align: right;">Subject: 431</p>
<p>124FRT Crse ID: 003946 0.5 credits</p> <p>Hazardous Materials Awareness</p> <p>This course introduces the student to the principles of recognizing hazardous materials presence, protecting themselves from hazardous materials and calling for training/personnel, and securing the area safety.</p> <p style="text-align: right;">Subject: 431</p>	<p>144FRT Crse ID: 003957 0.8 credits</p> <p>Fire Prevention, Public Education and Fire Cause Determination I</p> <p>This course covers basic information pertaining to the causes of fire and their prevention, fire inspections, and public fire education. Prerequisites: FRT 101, FRT 117, FRT 118, FRT 121.</p> <p style="text-align: right;">Subject: 431</p>
<p>125FRT Crse ID: 003947 1.1 credits</p> <p>Hazardous Materials Operations</p> <p>This course involves training to meet federal Occupational Safety and Health Administration (OSHA), local occupational health and safety regulations, and U.S. Environmental Protection (EPA) requirements. Prerequisites: FRT 103, FRT 124.</p> <p style="text-align: right;">Subject: 431</p>	<p>146FRT Crse ID: 003926 0.8 credits</p> <p>Driver's Training</p> <p>This course includes the minimum requirements of professional competence required for service as a fire apparatus driver. Prerequisites: FRT 100, FRT 102, Valid Operators License.</p> <p style="text-align: right;">Subject: 431</p>
<p>126FRT Crse ID: 003948 0.2 credits</p> <p>Sprinklers</p> <p>This course is designed to give the firefighter a basic understanding of how sprinkler systems are designed and how they operate.</p> <p style="text-align: right;">Subject: 431</p>	

153FRT Crse ID: 003958 **1.1 credits**
Firefighter Survival & Rescue
This course examines significant areas of firefighter fatalities and injuries associated with emergency and nonemergency situations. This course addresses causes of fatalities and injuries and recommended solutions and methods to implement the latter. Prerequisites: Prerequisites: FRT 100-151 or Consent of Instructor.

Subject: 431

154FRT Crse ID: 003933 **3.4 credits**
Hazardous Materials Technician
This course provides the required training for Federal Occupational Safety and Health Administration (OSHA), Kentucky Occupations Health and Safety regulation and U. S. Environmental Protection Agency (EPA) requirements. The course will cover responding to releases or potential releases of hazardous materials for the purpose of controlling the release and using specialized chemical-protective clothing and specialized control equipment. Prerequisites: FRT 100-151 or Consent of Instructor.

Subject: 431

155FRT Crse ID: 003934 **6 credits**
Emergency Medical Technician (EMT)
This basic Emergency Medical Technician course covers all knowledge aspects of trauma care as outlined by national standards, created by federal guidelines, considered to be the responsibilities of ambulance operations. Training involves typical anatomy and physiology; patient assessment; care for respiratory and cardiac emergencies, control of bleeding; application of dressing and bandages; treatment for traumatic shock; care for fractures, dislocation, sprains and strains; medical emergencies; emergency childbirth; burns and heat emergencies; environmental emergencies; principles of vehicle rescue; transportation of patients and general operations of ambulance systems. Prerequisites: FRT 100-151 or Consent of Instructor.

Subject: 431

156FRT Crse ID: 003935 **1 credit**
Managing Company Operations: Decision Making
This course is designed to meet the needs of fire officers and crew leaders with responsibilities to manage the operations of one or more companies in structural firefighting operations. The course components of this curriculum include preparation for response, decision making, and tactical operations. The foundation of the course is an extensive use of simulation to provide application of concepts and the development of skills. Managing Company Tactical Operations: Decision making provides an effective approach to command decision making and organization. The focus is a review of the command sequence and an overview of incident command for structural firefighting. Prerequisites: FRT 100-151 or Consent of Instructor.

Subject: 431

202FS Crse ID: 000806 **3 credits**
Protective Systems
A study of portable fire extinguishing equipment; protection systems for special hazards; sprinkler systems; and fire detection and alarm systems. Lecture: 3 hours. Prereq: FS 100, FS 101, FS 103, FS 104, and FS 201, or consent of instructor.

Subject: 432

100FST Crse ID: 001478 **2 credits**
Fundamentals of Culinary Arts
This course is an orientation to the food industry. Careers, professionalism, sanitation and safety, proper terminology, applied math skills, and service techniques are explored. Prerequisites: None

Subject: 201

111FST Crse ID: 001479 **4 credits**
Garde Manger
This course includes the production of hot and cold sandwiches, hor d'oeuvres, canapes and salads. Garnishing techniques along with cold food production are discussed. Emphasis is placed on speed and organization of work. Prerequisite: FST 100

Subject: 201

200FST Crse ID: 001480 **2 credits**
Sanitation
This course includes the study of food borne illnesses, hazards of handling foods, proper sanitation and related micro biological knowledge and skills. The student will learn how to prevent food borne illnesses, deal with the hazards of improper food handling, and develop and utilize proper sanitation techniques. Prerequisites: None

Subject: 201

211FST Crse ID: 001481 **4 credits**
Culinary Preparation I
This course provides a study of the basic principles of food selection, storage, and preparation; identification and classification of fruits and vegetables; preparation of soups and sauces; basic principles of cooking, baking, kitchen operations, and a study of breakfast food. Laboratory experiences are performed in this course. Prerequisite: FST 100

Subject: 201

215FST Crse ID: 001482 **4 credits**
Beginning Bakery
This course emphasizes the production of basic yeast breads, pie doughs, cookies, and other baked goods. The theory of batter and dough products and techniques of scaling ingredients and mixing formulas will be covered. Laboratory experiences are performed in this course. Prerequisites: None

Subject: 201

220FST Crse ID: 001483 **4 credits**
Advanced Baking and Pastry Arts
This course includes the preparation of pastries, crepes, and a variety of yeast breads and rolls. The use of prepared dough will also be utilized. Emphasis will be placed on scaling ingredients, mixing formulas and finishing techniques for baked items. Prerequisite: FST 215

Subject: 201

230FST Crse ID: 001484 **2 credits**
Nutrition
This course focuses on the study of nutrition and how it relates to modified diets and a healthy lifestyle. Prerequisites: None

Subject: 201

240FST Crse ID: 001485 **4 credits**
Culinary Preparation II
This course focuses on the identification of various cooking techniques for meats, seafood and poultry. Laboratory experiences are presented. Prerequisites: FST 100

Subject: 201

250FST Crse ID: 001486 **2 credits**
Cake Decorating and Advanced Pastry Finishing
This course provides instruction in basic techniques of constructing and decorating cakes, cookies and baked goods. Advanced techniques of finishing pastries and baked items includes the production of wedding cakes, fondants, glazes and tempered chocolate decorations and designs. Prerequisite: FST 220

Subject: 201

<p>260FST Crse ID: 001487 4 credits International and Classical Cuisine This course focuses on the study of international and classical cuisine with supervised on-the-job work experience relating to total food production. Prerequisites: Permission of Instructor</p> <p style="text-align: right;">Subject: 201</p>	<p>200FWU Crse ID: 000758 3 credits Regulatory Compliance and Safety Regulatory, environmental, and safety requirements for occupations in forestry and forest-related industries are the focus of this course. Lecture: 3 hours. Prereq: CPR and First Aid Certification.</p> <p style="text-align: right;">Subject: 032</p>
<p>270FST Crse ID: 001488 4 credits Cost and Personnel Management This course is designed to acquaint the student with food service systems. Management skills are stressed as they relate to production, sanitation, cost control, menu planning, inventories of food and beverage supplies and service areas. Prerequisites: Permission of Instructor</p> <p style="text-align: right;">Subject: 201</p>	<p>210FWU Crse ID: 002269 3 credits CNC Machining Introduction to CNC machining as it applies to the woodworking industry. Programming of CNC equipment using CAD/CAM software will be stressed. Lecture: 2 hours; Laboratory 2 hours. Prerequisites: CAD 100 and FWU 200.</p> <p style="text-align: right;">Subject: 482</p>
<p>280FST Crse ID: 001489 4 credits Dietary Food Preparation This course provides a basic understanding of the importance of special diets and introduces specific dietary terminology. Students will apply knowledge of basic nutrition and acquire skills in preparing foods for special diets. Prerequisite: FST 100</p> <p style="text-align: right;">Subject: 201</p>	<p>220FWU Crse ID: 000842 3 credits Product Engineering and Design Students will study the elements of product design as it relates to wood manufacturing applications. Emphasis will be on problem solving in developing design solutions, detailed drawings and illustrations that are used in the manufacturing of wood furniture and cabinets. Lecture: 2 hours. Laboratory: 2 hours. Prerequisites: CAD 100</p> <p style="text-align: right;">Subject: 032</p>
<p>290FST Crse ID: 001490 4 credits Catering This course focuses on the principles of off-premise meal and beverage service including purchasing, cost accounting, menu pricing, marketing and customer relations. Corequisite: FST 200</p> <p style="text-align: right;">Subject: 201</p>	<p>230FWU Crse ID: 000370 4 credits Millwork Production The processes of planning, estimating, and producing architectural millwork and casework are covered. Lecture: 4 hours. Prereq: Satisfactory completion of courses required in the first year of the Forest and Wood Technology curriculum.</p> <p style="text-align: right;">Subject: 032</p>
<p>291FST Crse ID: 001491 1 credit Special Problems I (Elective) This course provides advanced experiences in food preparation theories and practices appropriate for the occupational objectives of the student. Prerequisites: None</p> <p style="text-align: right;">Subject: 201</p>	<p>255FWU Crse ID: 000057 3 credits Remote Sensing An introduction to the application of remote sensing in forestry, with emphasis on aerial photographic interpretation. Areas of study include application of aerial photography, aerial photography specifications, scale and horizontal measurement, displacement, stereovision, and photo interpretation. In addition, students will be introduced to satellite-based data acquisition such as GIS (Geographic Information Systems) and desktop mapping. Lecture: 1 hour; Laboratory: 4 hours. Prereq: Satisfactory completion of courses required in the first year of the Forest and Wood Technology Program.</p> <p style="text-align: right;">Subject: 032</p>
<p>293FST Crse ID: 001492 2 credits Special Problems II (Elective) This course provides additional advanced experiences in food preparation theories and practices appropriate for the occupational objectives of the student. Prerequisites: None</p> <p style="text-align: right;">Subject: 201</p>	<p>260FWU Crse ID: 000678 3 credits Dendrology The content of this course focuses on the identification of native tree and other plant species commonly growing in plant associations. Site requirements, growth characteristics, and ranges will be included. Lecture: 1 hour; Laboratory: 4 hours. Prereq: BIO 106 and BIO 107 or BIO 103.</p> <p style="text-align: right;">Subject: 032</p>
<p>298FST Crse ID: 001493 2 credits Practicum The Practicum provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Practicum do not receive compensation. Prerequisites: Permission of Instructor</p> <p style="text-align: right;">Subject: 201</p>	<p>261FWU Crse ID: 000681 3 credits Forest Protection Forest protection from damage by agents such as fire, disease, insects, and animals is introduced. Areas of study include interaction of insects and forest trees, behavior and management of forest fires, and diseases of forest trees. Lecture: 1 hour; Laboratory: 4 hours. Prereq: Completion of courses required in the first year of the Forest and Wood Technology curriculum.</p> <p style="text-align: right;">Subject: 032</p>

262FWU Crse ID: 000685 **3 credits**
Silviculture
Students are introduced to the art of producing and tending a forest. Silvics, reforestation, nursery practices, timber stand improvement, thinnings, and various systems of managing timber are studied. Lecture: 1 hour; Laboratory: 4 hours. Prereq: Satisfactory completion of the courses required in the first year of the Forest and Wood Technology curriculum.

Subject: 032

263FWU Crse ID: 000690 **3 credits**
Surveying
Surveying techniques used in forestry are addressed, including the measurement of distance, elevations, angles, and directions, and of areas by utilizing a hand compass, staff compass, and transit surveys. Lecture: 1 hour; Laboratory: 4 hours.

Subject: 032

264FWU Crse ID: 000696 **3 credits**
Timber Harvesting
The principles and practices involved in harvesting timber, including environmental impact, are introduced. Topics include the layout of the logging job, actual harvest operations, log transport, equipment operation and maintenance, and log grading. Lecture: 1 hour; Laboratory: 4 hours. Prereq: Concurrent enrollment in FWU 200.

Subject: 032

266FWU Crse ID: 000706 **3 credits**
Forest Mensuration
The basic principles and skills involved in the measurement of forests and forest products are studied. Topics include measurement of land areas, land productivity, timber volumes, and timber growth. Lecture: 1 hour; Laboratory: 4 hours. Prereq: Satisfactory completion of course requirements in the first year of curriculum and FWU 263 concurrent.

Subject: 032

270FWU Crse ID: 000492 **3 credits**
Primary Wood Processing
Students will study safe sawmill operation and maintenance, and seasoning of lumber. Sawing for grade, input-output studies, air and kiln drying of lumber, and methods of preventing and/or correcting defects due to seasoning will be covered. Lecture: 1 hour; Laboratory: 4 hours. Prereq: Satisfactory completion of course requirements in the first year of the curriculum.

Subject: 032

276FWU Crse ID: 000739 **3 credits**
Assembly and Finishing
Assembly and Finishing covers types of joints and fasteners, glues, and adhesives, production routing, sanding and other abrasives, conventional, airless and electrostatic finishing systems, and safety in the workplace. Lecture: 1 hour; Laboratory: 4 hours.

Subject: 032

277FWU Crse ID: 000009 **3 credits**
Wood Identification
The characteristics and uses of commercial woods will be studied, including the identification of wood from commercially important trees in local forests. Lecture: 1 hour; Laboratory: 4 hours.

Subject: 032