

Kansas Board of Regents Precollege Curriculum Courses Approved for University Admissions

Original Publication April 6, 2011

> Revision Dates June 13, 2011 May 23, 2012

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The precollege curriculum is designed to prepare high school students for university-level work. The list of courses fulfilling the precollege curriculum has been recommended by the Kansas State Department of Education and approved by the chief executive officer of the board of regents or the chief executive officer's designee. Requirements for the precollege curriculum are found in K.A.R. 88-29-11 and 88-29a-11.

	Course Code	
ELECTIVE Course Title	Code	Course Description
		Exploration of Hospitality Careers courses survey a wide array of topics
		while exposing students to the variety of career opportunities in
		hospitality fields (such as food service, lodging, tourism, and
		recreation). These courses serve to introduce students to the general
		field of hospitality, providing an opportunity to identify a focus for
Exploration of Hospitality Careers	16001	continued study.
		Exploration of Restaurant, Food, and Beverage Services courses provide
		students with an overview of the restaurant, food, and beverage service
		industry. Topics covered include industry terminology, the history of
		restaurant, food, and beverage services, introduction to marketing, and
Exploration of Restaurant, Food and Beverage Services	16051	the various careers available in the industry.
		Restaurant, Food, and Beverage Services—Comprehensive courses
		provide students with knowledge and skills related to commercial and
		institutional food service establishments. Course topics range widely,
		but usually include sanitation and safety procedures, nutrition and
		dietary guidelines, food preparation (and quantity food production),
		and meal planning and presentation. Restaurant, Food, and Beverage
		Service courses may include both "back-of-the-house" and "front-of-the-
		house" experiences, and may therefore also cover reservation systems,
Restaurant, Food and Beverage Services—Comprehensive	16052	customer service, and restaurant/business management.
		Food Service courses provide instruction regarding nutrition, principles
		of healthy eating, and the preparation of food. Among the topics
		covered are large-scale meal preparation, preserving nutrients
		throughout the food preparation process, use and care of commercial
		cooking equipment, food storage, advances in food technology,
		sanitation, management, and the careers available in the food service
Food Service	16053	industry.

		Nutrition and Food Preparation courses provide students with
		knowledge and skills about food preparation and/or production, with a
		strong emphasis on nutrition, balanced diets, and satisfying special
		dietary needs. Topics typically include assessing nutrient content, the
		science of food and nutrition, physiology and utilization of nutrients.
		Course content may also cover additives, contaminants, foodborne
Nutrition and Food Preparation	16054	illnesses, and food technology.
		Restaurant Management and Operations courses provide students with
		knowledge and skills related to commercial and institutional food
		service establishments, with an emphasis on management. Course
		topics therefore include guest service and relationships, planning,
		resource management, and other topics related to managing and
Restaurant Management and Operations	16055	operating restaurants.
		Culinary Art Specialty courses provide instruction in a particular type of
		cooking or culinary style. Examples of such specialty fields include
		baking, creating and decorating wedding cakes, Middle Eastern cuisine,
		and so on. These courses emphasize skills specific to the type of culinary
Culinary Art Specialty	16056	art being studied.
		These courses examine specific topics related to Restaurant, Food, and
Particular Topics in Restaurant, Food and Beverage		Beverage Services, such as catering, rather than provide a general study
Services	16057	of the industry or of specific topics already described.
		Restaurant, Food, and Beverage Services—Independent Study courses,
		often conducted with instructors as mentors, enable students to
		explore topics of interest within the restaurant, food, and beverage
		services industry. Independent Study courses may serve as an
		opportunity for students to expand their expertise in a particular
Restaurant, Food and Beverage Services—Independent		application, to explore a topic in greater detail, or to develop more
Study	16097	advanced skills.
		Exploration of Lodging Careers courses provide an overview of the
		lodging industry. Topics covered include lodging terminology, the
		history of lodging, introduction to marketing, and the various careers
Exploration of Lodging Careers	16101	available in the lodging industry.

		Lodging—Comprehensive courses introduce students to the lodging
		industry and refine their related knowledge and skills. Topics covered
		typically include property management, guest psychology and
		relationships, lodging operations, food and beverage services, and other
Lodging—Comprehensive	16102	topics related to support services within the lodging industry.
		Institutional Maintenance courses present the knowledge and skills
		required for service work within institutions. Topics covered typically
		include housekeeping and laundry services, care and cleaning of
		facilities, and safety and sanitation procedures, in addition to career
		opportunities, business responsibilities, and other types of ongoing
Institutional Maintenance	16103	maintenance.
		These courses examine specific topics in lodging such as convention
		planning or hotel management rather than provide a general study of
Particular Topics in Lodging	16104	the industry or of specific topics already described.
		Lodging—Independent Study courses, often conducted with instructors
		as mentors, enable students to explore topics of interest within the
		lodging industry. Independent Study courses may serve as an
		opportunity for students to expand their expertise in a particular
		application, to explore a topic in greater detail, or to develop more
Lodging—Independent Study	16147	advanced skills.
		Introduction to Travel and Tourism courses provide an overview of the
		travel and tourism industry. Topics covered in this course may include
		travel and tourism terminology, the history of travel, introduction to
Introduction to Travel and Tourism	16151	marketing, and the various careers available in travel and tourism.
		Travel and Tourism—Comprehensive courses provide the knowledge
		and skills necessary to work in the travel industry such as sales
		techniques, marketing principles, and entrepreneurial skills. Additional
		skills learned in these courses typically include travel agency
		procedures, airline reservation systems, public relations, hotel/motel
		registration systems and services, and conference and convention
Travel and Tourism—Comprehensive	16152	planning.

		World Travel and Tourism courses provide the knowledge and skills
		necessary to work in the travel industry, with a focus on travel outside
		of the United States. Topics covered may include geography of the
		continents; customs, cultures, and tourist destinations in other
		countries; special documentation needed for international travel; and
World Travel and Tourism	16153	planning events to client specifications.
		Eco-tourism courses provide the knowledge and skills necessary to work
		in the travel industry, with particular attention paid to conservation and
		environmental issues surrounding travel and tourism. Topics covered
		may include recreational opportunities related to on- and off-site
Eco-tourism	16154	attractions and environmental and ecological principles.
		These courses examine specific topics in travel and tourism such as the
		airline reservation and ticketing system rather than provide a general
Particular Topics in Travel and Tourism	16155	study of the industry or of specific topics already described.
		Travel and Tourism—Independent Study courses, often conducted with
		instructors as mentors, enable students to explore topics of interest
		within the travel and tourism industry. Independent Study courses may
		serve as an opportunity for students to expand their expertise in a
		particular application, to explore a topic in greater detail, or to develop
Travel and Tourism—Independent Study	16197	more advanced skills.
		Exploration of Recreation, Amusement, and Attractions courses provide
		an overview of the recreation industry. Topics covered in this course
		may include industry terminology; the history of recreation,
		amusement, and attractions; introduction to marketing; and the various
Exploration of Recreation, Amusement and Attractions	16201	careers available in the industry.

		Recreation, Amusement, and Attractions—Comprehensive courses
		provide students with the attitudes, skills, and knowledge needed for
		employment in theme parks, attractions and outdoor recreation
		facilities, exhibitions, and event planning. Topics covered may include
		planning trade shows, fairs, and conferences; outdoor recreation and
		management; financial transactions; salesmanship; guest services and
		satisfaction; culture and customs; computer and industry technology;
		eco-tourism; client information; and planning specialized events while
		incorporating themes, timelines, budgets, target audiences, agendas,
Recreation, Amusement and Attractions—Comprehensive	16202	and public relations.
		These courses examine specific topics in recreation, amusement, and
Particular Topics in Recreation, Amusement and		attractions such as local opportunities rather than provide a general
Attractions	16203	study of the industry.
		Recreation, Amusement, and Attractions—Independent Study courses,
		often conducted with instructors as mentors, enable students to
		explore topics of interest within the recreation, amusement, and
		attractions industry. Independent Study courses may serve as an
		opportunity for students to expand their expertise in a particular
Recreation, Amusement and Attractions—Independent		application, to explore a topic in greater detail, or to develop more
Study	16247	advanced skills.
		Hospitality and Tourism—Independent Study courses, often conducted
		with instructors as mentors, enable students to explore topics of
		interest within the hospitality and tourism industry. Independent Study
		courses may serve as an opportunity for students to expand their
		expertise in a particular application, to explore a topic in greater detail,
Hospitality and Tourism—Independent Study	16997	or to develop more advanced skills.
		Construction Career Exploration courses expose students to the
		opportunities available in construction-related trades, such as
		carpentry, masonry, air conditioning/refrigeration, plumbing, and so on.
		Students learn about the processes involved in construction projects
		and may engage in a variety of small projects. These courses emphasize
		responsibilities, qualifications, work environment, rewards, and career
Construction Careers Exploration	17001	paths within construction-related fields.

Construction—Comprehensive	Construction—Comprehensive courses provide students with basic knowledge and skills required for construction of commercial, residential, and institutional structures. These courses provide experiences and information (typically including career opportunitie and training requirements) regarding construction-related occupation such as carpentry, cabinetmaking, bricklaying, electrical trades, plumbing, concrete masonry, and so on. Students engage in activities such as reading blueprints, preparing building sites, starting foundations, erecting structures, installing utilities, finishing surfaces and providing maintenance.
Carpentry	Carpentry courses provide information related to the building of wooden structures, enabling students to gain an understanding of w grades and construction methods and to learn skills such as laying si and joists; erecting sills and rafters; applying sheathing, siding, and shingles; setting door jambs; and hanging doors. Carpentry courses teach skills for rough construction, finish work, or both. Students leat to read blueprints, draft, use tools and machines properly and safely erect buildings from construction lumber, perform finish work inside buildings, and do limited cabinet work. Carpentry courses may also include career exploration, good work habits, and employability skill
Framing Carpentry	Framing Carpentry courses provide students with much of the same knowledge as general carpentry courses (knowledge of various types and grades of woods, proper and safe use of hand and power tools, site selection and preparation), but place a special emphasis on construction methods applicable to floor, wall, roof, and/or stair framing. Course content may also include insulation installation and painting. These courses cover specific aspects of building construction or
Particular Topics in Carpentry	carpentry. All coursework focuses upon a particular skill or set of ski related to one subtopic, such as floor framing, wall and partition framing, interior finishing, or exterior finishing.

		Woodworking courses introduce students to the various kinds of woods
		used in industry and offer experience in using selected woodworking
		tools. Students design and construct one or more projects and may
		prepare a bill of materials. Correct and safe use of tools and equipment
		is emphasized. As students advance, they focus on learning the
		terminology necessary to use power tools successfully, developing skills
		to safely use these tools in the workshop and becoming familiar with
		various kinds of wood-finishing materials. Advanced students typically
		design a project, prepare bills of materials, construct, and finish
Woodworking	17006	proposed projects.
		Cabinetmaking courses provide students with experience in
		constructing cases, cabinets, counters, and other interior woodwork.
		Students learn to distinguish between various types of furniture
		construction and their appropriate applications, and how to use various
		woodworking machines and power tools for cutting and shaping wood.
		Cabinetmaking courses cover the different methods of joining pieces of
		wood, how to use mechanical fasteners, and how to attach hardware.
		Initial topics may resemble those taught in Woodworking courses; more
		advanced topics may include how to install plastic laminates on surfaces
Cabinetmaking	17007	and how to apply spray finishes.
		Masonry courses enable students to learn to construct interior and
		exterior walls, columns, doorways, window openings, fireplaces,
		chimneys, and foundations from brick and concrete block. Along with
		other activities, students may mix and spread cement and mortar, read
		blueprints and plans, and estimate materials needed for a project.
		Other topics may also include how to layout buildings on footings and
Masonry	17008	how to establish grades using a surveying transit.

		Building Maintenance courses train students to maintain commercial,
		industrial, and residential buildings and homes. Instruction is provided
		in the basic maintenance and repair of air conditioning, heating,
		plumbing, electrical, and other mechanical systems. Topics covered may
		include identifying and using hand and power tools safely; installing and
		repairing floor coverings, walls, and ceilings; installing and repairing
		doors, windows, screens, and cabinets; applying finishes to prepared
		surfaces; and repairing roofs, masonry, plumbing, and electrical
Building Maintenance	17009	systems.
		Home Maintenance courses provide students with knowledge and skills
		related to devices and systems found in the home. Course content may
		include electrical wiring, plumbing, window and door repair and
		installation, wall and floor repair and finishing, furniture repair and
Home Maintenance	17010	finishing, and small appliance repair.
		Wall Finishings courses prepare students to finish exterior or interior
		surfaces by applying protective coating materials such as paint, lacquer,
		wallpaper, plaster, or stucco. Course topics may include instruction in
		making, mixing, and matching paint colors; applying coating with
		various types of equipment; applying wallpaper; lathing, preparing
Wall Finishings	17011	surfaces, smoothing, and finishing.
		Upholstering courses prepare students in all aspects of upholstering
		furniture. Topics covered may include installing, repairing, arranging,
		and securing the springs, filler, padding and cover materials of chairs,
		couches and mattresses; cutting, sewing and trimming; cushion filling,
Upholstering	17012	tufting, and buttoning; and wood refinishing.
		A course to introduce students to the basic skills pertaining to
Commercial Construction Technology	17014	commercial construction.
		Comprehensive and application courses designed to teach knowledge
Commercial Construction Careers	17015	and skills required to construct commercial buildings
Heavy Highway Construction	17016	Heavy Highway Construction.

	General Construction—Independent Study courses, often conducted
	with instructors as mentors, enable students to explore construction-
	related topics of interest. Independent Study courses may serve as an
	opportunity for students to expand their expertise in a particular
	application, to explore a topic in greater detail, or to develop more
General Construction—Independent Study 1704	7 advanced skills.
	Air Conditioning courses offer students specialized training related to
	the design, installation, and repair of air conditioning systems for
	residential and commercial use. These courses may emphasize the
	theory and design of electrical, electronic, mechanical, and pneumatic
	control systems used in air conditioning systems; they might also (or
	instead) focus on procedures used in troubleshooting, servicing, and
Air Conditioning 1705	1 installing components of air conditioning systems.
	Refrigeration courses provide students with exposure to and training in
	the theories, equipment, and skills needed to design, install, and repair
	commercial and residential refrigeration systems. Course topics
	typically include the theory of thermodynamics, measurement of
	pressures and temperatures, components and common accessories of
Refrigeration 1705	refrigeration systems, and repair and safety procedures.
	Heating courses offer students training specific to the design,
	installation, and repair of heating systems for residential use. Topics
	typically include electric, gas, and/or steam systems; ventilation
	procedures; safety practices; and installation and trouble-shooting
Heating 1705	techniques.
	Air Conditioning/Refrigeration courses enable students to develop the
	combined skills and knowledge to install, maintain, adjust, and repair
Air Conditioning/Refrigeration 1705	both air conditioning and refrigeration systems.
	In Air Conditioning, Heating, and Refrigeration courses, students learn
	the basic principles of these systems, along with how to identify and
Air Conditioning, Heating, and Refrigeration 1705	safely use tools/equipment used in the trade.

		These courses synthesize basic and advanced principles in heating,
		ventilation, and air conditioning and include topics such as air filtration
		methods, humidity control, and the installation and maintenance of
		heat pumps, furnaces, and air conditioners. Students also learn about
		climate control systems; electrical wiring; systems design; sizing,
		fabricating, and installing ductwork; installing and maintaining climate
Heating, Ventilation, and Air Conditioning	17056	control systems; and safety.
		These courses offer students specialized training in aspects or topics
		that are common to various climate control systems (heating,
		ventilation, air conditioning, and refrigeration systems); such topics may
		include electrical components, diagrams and blueprints, welding and
Particular Topics in HVACR	17057	soldering techniques, and so on.
		Plumbing courses provide students with instruction in installing waste
		and vent systems, water and gas pipes, trim, and fixtures. Skills taught
		include cutting and joining various types of pipe (for instance, steel,
Plumbing	17058	plastic) using various methods (cement, seat method, and so on).
		Plumbing and Heating courses address the installation, assembly,
		maintenance, and repair of piping, plumbing, heating equipment, and
		water and drainage systems. Topics covered include the computation of
		heat losses and BTU requirements and blueprint reading. Students gain
		experience with electric, gas, and oil furnaces; vacuum pumps; air
Plumbing and Heating	17059	compressors; and mechanical and pneumatic testing equipment.
		Course designed to teach basic skills required for installation of HVAC
HVAC & Plumbing Systems	17060	and plumbing systems.
		Course design to teach exposure to and training in the theories,
Pipefitting Technology	17061	equipment and skills needed to perform pipefitting techniques.
		A course to introduce students to the basic skills necessary for
		occupations in skilled mechanical crafts (plumbing, HVAC, pipefitting,
Skilled Mechanical Crafts	17062	sheet metal, refrigeration).
		Air Conditioning, Heating, and Plumbing—Independent Study courses,
		often conducted with instructors as mentors, enable students to
		explore topics of interest related to air conditioning, heating and
		plumbing. Independent Study courses may serve as an opportunity for
Air Conditioning, Heating and Plumbing—Independent		students to expand their expertise in a particular application, to explore
Study	17097	a topic in greater detail, or to develop more advanced skills.

Exploration of Electricity/Electronics	17101	Exploration of Electricity/Electronics courses offer instruction in the theory of electricity and in the terminology, skills, and safety procedures common to careers involving electricity and electronics. Topics include (but are not limited to) Ohm's law, electrical equipment, wire systems, and so on; career exploration is often (but not always) an integral part of these courses.
		Electricity—Comprehensive courses provide a survey of the theory, terminology, equipment, and practical experience in the skills needed for careers in the electrical field. These courses typically include AC and DC circuitry, safety, and the National Electrical Code and may cover such skills as those involved in building circuits; wiring residential, commercial, and/or industrial buildings; installing lighting, power circuits, and cables; and estimating job costs. As students progress, their projects become more complex and expansive. In these courses,
Electricity—Comprehensive	17102	safety is stressed, and a career exploration component may be offered.
		Covering many of the same topics as Electricity—Comprehensive courses, Residential Wiring courses apply the knowledge and skills that students acquire to the electrical systems found in family dwellings. Because these courses emphasize residential electricity, topics may also include cable installation, telephone systems, and the installation of lighting fixtures, outlets, and so on. Maintenance and repair skills are
Residential Wiring		often included as course topics.
		Covering many of the same topics as Electricity—Comprehensive courses, Industrial Electricity courses apply the knowledge and skills that students acquire to the electrical systems used in industry. Because of this emphasis, these courses may also cover the installation of transformers and control devices, emergency generator systems, and
Industrial Electricity		other industrial applications.
Danking land Tanian in Eland in the		These courses provide students with specialized knowledge and help them develop skills in particular topics concerning the nature, behavior,
Particular Topics in Electricity	1/105	and application of electrical current.

	l lr	Electronics—Comprehensive courses provide a survey of the theory,
		erminology, equipment, and practical experience in the skills needed
		or careers in the electronic field as well as typically cover the theory of
		electricity. Course topics may include AC, DC, analog, and integrated
		ircuitry and solid state and digital devices, amplifiers, and
		emiconductors. Skills covered may involve the repair, maintenance,
		and building of electronic equipment such as radios, television sets, and
Electronics—Comprehensive		ndustrial equipment.
		ndividual courses in this category offer specialized training in topics
	r	elated to electronics such as diodes, transistors, digital techniques,
Particular Topics in Electronics	17107 s	olid-state devices, analog circuits, and microprocessors.
		lectricity/Electronics—General courses teach fundamental concepts of
		electricity and electronics, including safety procedures, and may
		ntroduce students to the available occupations in electrical and
		electronic industries. Topics covered typically include components of
		ircuits; reading schematics and diagrams; electricity and electronics as
		ources of energy; signal transmission; and using equipment common
		o these occupations, such as ammeters, voltmeters, capacitor
Electricity/Electronics—General		heckers, transistor testers, signal generators, and ohmmeters.
		hese courses provide instruction in the theory and skills needed in
		ields involving electricity and electronics and related fields that focus
Particular Topics in Electricity/Electronics		on electrical wiring or electronic signals.
		n these courses, analog and digital circuits and systems are compared.
		opics covered include binary and continuously variable currents and
		ignals (typically in the context of voltage), waveforms, signal loss and
	d	listortion, modulation, and signal processing. These courses may also
Analog and Digital Circuits		ntroduce other media, such as sound waves and liquids.
		Analog Circuit courses emphasize currents and voltages that have
		ontinuously variable signals and, due to that emphasis, concentrate on
	S	ignal modulation, transmission and reception, signal loss and
	d	listortion, and waveforms. These courses may also address conversion
Analog Circuits	17111 to	

		Digital Circuit courses emphasize currents and voltages that have binary
		states and, due to that emphasis, concentrate on transmission and
		reception of binary data, signal loss, and processing circuitry. These
Digital Circuits	17112	courses may also address conversion techniques.
		Course design to teach basic skills required for installation of electrical
Electrical & Security Systems	17113	and security systems.
		Electricity/Electronics—Independent Study courses, often conducted
		with instructors as mentors, enable students to explore electricity- or
		electronics-related topics of interest. Independent Study courses may
		serve as an opportunity for students to expand their expertise in a
		particular application, to explore a topic in greater detail, or to develop
Electricity/Electronics—Independent Study	17147	more advanced skills.
		Architecture and Construction—Independent Study courses, often
		conducted with instructors as mentors, enable students to explore
		architecture and construction-related topics of interest. Independent
		Study courses may serve as an opportunity for students to expand their
		expertise in a particular application, to explore a topic in greater detail,
Architecture and Construction—Independent study	17997	or to develop more advanced skills.
		Introduction to Agriculture courses survey a wide array of topics within
		the agricultural industry, exposing students to the many and varied
		types of agriculture and livestock career opportunities and to those in
		related fields (such as natural resources). These courses serve to
		introduce students to the agricultural field, providing them an
		opportunity to identify an area for continued study or to determine that
		their interest lies elsewhere. They often focus on developing
Introduction to Agriculture and Natural Resources	18001	communication skills, business principles, and leadership skills.
		Agriculture—Comprehensive courses cover a wide range of agricultural
		topics, including plant and animal science, production, and processing;
		agricultural mechanics, including tool and machine operation and
		repair; construction and repair of farm structures; business operations
		and management; and the careers available in the agricultural industry.
		They may also include topics such as chemical and soil science, ecology,
Agriculture—Comprehensive	18002	agricultural marketing, and veterinary science.

		Agriculture and Natural Resources—Comprehensive courses cover a
		wide range of topics concerning agriculture and natural resources,
		including plant and animal science, production, and processing;
		environmental science and conservation; ecology; agricultural
		mechanics; agricultural construction; business operations and
		management; and the careers available in the agricultural/natural
		resources industry. They may also include topics such as chemical and
Agriculture and Natural Resources—Comprehensive	18003	soil science, forestry, agricultural marketing, and veterinary science.
		This is an introductory course that allows the students to explore the
Introduction to Floral Design	18004	floral careers and the floral design business.
		Similar to General Horticulture, Ornamental Horticulture courses
		provide information regarding the care and propagation of plants,
		flowers, trees, and shrubs, but place a special emphasis on those used
		for decorative and aesthetic purposes. Because of this particular
		emphasis, Ornamental Horticulture courses usually concentrate on
Ornamental Horticulture	18053	nurseries and greenhouses and on the floristry industry.
		Turf and Landscape Management courses provide instruction that
		incorporates plant science, soil and media mixtures, plant identification
		and optimal environments, and landscape design. These courses
		emphasize applying such knowledge and skill to the design,
		establishment, and maintenance of lawns, parks, open space, and
Turf and Landscape Management	18054	similar environments.
		These courses examine specific topics related to Plant Systems, such as
		floral design, hydroponics, or landscaping, rather than provide a general
Particular Topics in Plant Systems	18056	study of plant systems or horticulture.
		Plant Identification and floral design are necessary knowledge skills
		along with the selection of greenhouse plants and management of
Floriculture and Greenhouse Management	18057	greenhouses for production of plants and flowers in the industry.
		Courses provide instruction that incorporates plant science, soil and
		media mixtures, plant identification and optimal environments, and
		landscape design. These courses emphasize applying such knowledge &
		skill to the design, establishment, and maintenance of lawns, parks,
		open space & similar environments. This course would include
Landscape Science I	18059	opportunities to design public and private spaces.

Provides an overview of the plant industry, careers and the anatomical,
taxonomy, physiological structures of plants. Photosynthesis,
respiration and transpiration of plants and the interdependence of
plants and their growth. Soilless systems, Reproduction, plant diseases
and marketing of plant products.
Student may develop career opportunities through internships with
local Horticulture Businesses. Advanced knowledge and skills will be
developed in plant genetics. Biotechnology through science based
research projects, advanced based designs utilizing tropical, specialty
and non-native plants.
Course provides instruction in plant identification and landscape design.
The principles of turf selection, maintenance and design of irrigations
systems for public and private systems. Turf diseases. Insects and
fertilizer usage are covered in this course.
Prepares students for the floral design business with a basic floral ID
and arrangements used in the floral industry for special occasions.
Courses provide instruction that incorporates plant science, soil and
media mixtures, plant identification in the florist industry and landscape
design. These courses emphasize applying such knowledge & skill to
the design, floral arrangements for various occasions and design public
and private facilities internal and external areas.
Course that prepares students to maintain indoor and outdoor
environments. Includes instruction in plant science, climate, irrigation,
nutrition, irrigation, and turf management.
Course that prepare students for the flower catering services with
instruction in purchasing, storage, delivery, floral design and arranging
66 for various occasions.
Courses provide instruction that incorporates plant science, soil and
media mixtures, plant identification and optimal environments, and
landscape design. These courses emphasize applying such knowledge &
skill to the design, establishment, and maintenance of lawns, parks,
open space & similar environments

		Students will have the opportunity to produce, market different types
		of greenhouse plants grown in the schools greenhouse. Skills in
		management, plant identification, pests control, starting plants,
Greenhouse Production and Management	18068	watering, fertilizing, and salesmanship will be developed.
		Allows student to develop plans for selection of various flowers, greens
		and arrangement for floral occasions followed up by marketing and cost
Floral Design II	18069	plans.
		Courses in Plant Systems—Independent Study, often conducted with
		instructors as mentors, enable students to explore topics of interest
		related to plant systems. Independent Study courses may serve as an
		opportunity for students to expand their expertise in a particular
		application, to explore a topic in greater detail, or to develop more
Plant Systems—Independent Study	18097	advanced skills.
		Small Animal Care courses focus on the care and management of small
		animals. Animal nutrition, health, behavior, reproduction and breeding,
		anatomy and physiology, facilities, handling and training, and grooming
		are typical areas of study. Course topics may include kennel operations
Small Animal Care	18102	and sales.
		Large Animal Care courses focus on the care and management of large
		animals. Animal nutrition, health, behavior, reproduction and breeding,
		anatomy and physiology, facilities, handling and training, and grooming
		are typical areas of study. Course topics may include product processing
Large Animal Care	18103	and marketing.
		Equine Science courses focus on the care and management of horses.
		Animal nutrition, health, behavior, reproduction and breeding, anatomy
		and physiology, facilities, handling and training, and grooming are
Equine Science	18104	typical areas of study.
		Veterinary Science courses impart information about the causes,
		diagnosis, and treatment of diseases and injuries of animals, typically
		emphasizing domestic and farm animals. Course topics focus on
		anatomy and physiology, nutrition, behavior, and reproduction, but
Veterinary Science	18105	may also include other areas of study as appropriate.

	These course	es examine specific topics related to animal care and
	managemen	t, production, or processing, such as equine training or
	animal waste	e management, rather than provide a general study of
Particular Topics in Animal Systems 18	animal care	and the systems related to their growth and management.
		art information about the causes, diagnosis, & treatment of
		njuries of animals, typically emphasizing domestic and farm
		oics focus on anatomy & physiology, nutrition, behavior, &
Advanced Animal Science or Animal Science II 18	reproduction	n, but may also include other areas of study as appropriate
	Overview of	the animal industry. Anatomical and Physiological
	Structures of	f animals, Naming of animals, nutrition, reproduction,
Principles of Agriscience/Animal Science 18	genetics, ani	imal health, selection, marketing and animal products.
	Courses in A	nimal Systems—Independent Study, often conducted with
	instructors a	s mentors, enable students to explore topics of interest
	related to an	nimal systems. Independent Study courses may serve as an
	opportunity	for students to expand their expertise in a particular
	application,	to explore a topic in greater detail, or to develop more
Animal Systems—Independent Study 18	advanced sk	ills.
	Agribusiness	Management courses provide students with the
	information	and skills necessary for success in agribusiness and in
	operating en	ntrepreneurial ventures in the agricultural industry. These
	courses may	cover topics such as economic principles, budgeting, risk
	managemen	t, finance, business law, marketing and promotion
	strategies, ir	nsurance, and resource management. Other possible topics
	include deve	eloping a business plan, employee/employer relations,
	problem-solv	ving and decisionmaking, commodities, and building
	leadership sl	kills. These courses may also incorporate a survey of the
Agribusiness Management 18	careers with	in the agricultural industry.
	Agricultural	Entrepreneurship courses focus on the personal skills
	necessary fo	r success in entrepreneurial ventures in the agricultural
	industry. Top	pics include setting goals, assessing and solving problems,
	evaluating fi	nancial progress and success, business planning,
Agricultural Entrepreneurship 18	information	management and evaluation, and recordkeeping.

		Agricultural Leadership courses help students develop leadership skills
		with a focus on opportunities in the food, fiber, and natural resources
		industries. Topics may include but are not limited to human
		relationships and effective communication, decision-making and
		problem-solving, leadership qualities and styles, and ensuring successful
Agricultural Leadership	18203	completion of group activities.
		These courses examine specific topics related to Agribusiness, such as
		international agriculture or commodities, rather than provide a general
Particular Topics in Agribusiness	18204	study of agribusiness principles.
		Courses help students develop leadership skills with a focus on
		opportunities in the food, fiber, & natural resources industries. Topics
		may include but are not limited to human relationships and effective
		communication, decision-making and problem-solving, leadership
		qualities and styles, and ensuring successful completion of group
Ag Communications	18205	activities.
		Allows students to prepare, conduct and evaluate science based
		projects as they relate to science in agriculture in the classroom, shop
Research in Agriculture	18206	or greenhouse.
		Courses in Agribusiness—Independent Study, often conducted with
		instructors as mentors, enable students to explore topics of interest
		related to agribusiness. Independent Study courses may serve as an
		opportunity for students to expand their expertise in a particular
		application, to explore a topic in greater detail, or to develop more
Agribusiness—Independent Study	18247	advanced skills.
		Agricultural Production courses combine content related to animal and
		plant production, providing comprehensive coverage of the production
		functions of the agricultural industry. These courses typically cover such
		topics as care and management of farm animals, crop production and
		harvesting, plant and animal insect and disease control, efficient
Agricultural Production	18301	resource management, and farm management.

		Agricultural Processing courses impart the knowledge and skills needed
		to bring animal and plant products to market. They may cover a wide
		variety of topics, including care and maintenance of animals or plants,
		quality selection and preservation, equipment care and sanitation,
		government regulations, and marketing and consumer trends.
		Agricultural Processing courses may present an overview of agricultural
Agricultural Processing	18302	processing or may specialize in particular types of products.
		Plant Processing courses impart the knowledge and skills needed to
		bring plant products to market. They may cover a wide variety of topics,
		including plant production, quality selection and preservation,
		equipment care and sanitation, government regulations, and marketing
		and consumer trends. Plant Processing courses may present an
		overview of product processing or may specialize in specific plant
Plant Processing	18303	products.
		Animal Processing courses impart the knowledge and skills needed to
		bring animal products to market. Although these courses may present
		an overview of animal care and maintenance, they typically emphasize
		quality selection, product preservation, equipment care and sanitation,
		government regulations, and marketing and consumer trends. Animal
		Processing courses may present an overview of several types of animal
		products or may specialize in particular products, such as meat, leather,
Animal Processing	18304	wool, dairy products, and so on.
		Food Product Processing courses impart the knowledge and skills
		needed to produce and manufacture food products for the consumer
		market. These courses focus on food products while covering a variety
		of topics, such as quality selection and preservation, equipment care
		and sanitation, government regulations, marketing, consumer trends,
Food Product Processing	18305	and product research and development.
		Aquaculture courses impart the knowledge and skills needed for
		producing fish, plants, and other species living in an aquatic
		environment, and course topics typically include the selection,
		propagation, harvesting, and marketing of those species. Instruction
		may also address aquatic and marine biology, ecosystems, water quality
Aquaculture	18306	and management, and business practices.
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		Agriculture and Society courses provide an overview of the importance
		of, impact on, and relationships between agricultural endeavors and
		society at large. These courses typically emphasize economic and
		environmental factors and impacts (such as urban and agricultural
		water use) and the influences of society on agricultural endeavors
		(including production, processing, and distribution). Current
		technological advances (such as genetic engineering) may also be
Agriculture and Society	18307	discussed.
		These courses examine specific topics related to producing and
		processing agricultural products (such as meat cutting) rather than
Particular Topics in Agricultural Production/Processing	18309	provide a general study of production or processing.
		Allows students to develop knowledge and skills used by the food
		supply careers as a nutritionist, food chemist, chef, or process engineer.
		Emphasis will be placed on food chemistry, nutrition and digestion,
		quality food factors, food safety and biotechnology. Students will be
		able to explore food preparation of another country and to understand
		and appreciate ethnic foods from a global perspective which includes
Food Science II	18310	hands on laboratory experiences.
		Includes a study of the animal and plant production, management,
		marketing of products, by products, consumer awareness and safety
		involved in producing consumable products. Nutrition, breeding,
		reproduction, disease prevention, and pesticide control are included in
Advanced Plant and Animal Science	18311	this class.
		Courses in Agricultural Production and Processing—Independent Study,
		often conducted with instructors as mentors, enable students to
		explore topics of interest related to agricultural production and
		processing. Independent Study courses may serve as an opportunity for
Agricultural Production and Processing—Independent		students to expand their expertise in a particular application, to explore
Study	18347	a topic in greater detail, or to develop more advanced skills.

		Agriculture Mechanics/Equipment/Structures courses provide students with the skills and knowledge that are specifically applicable to the tools and equipment used in the agricultural industry. While learning to apply basic industrial knowledge and skills (engine mechanics, power systems, welding, and carpentry, among others), students may explore a broad range of topics, including the operation, mechanics, and care of farm tools and machines; the construction and repair of structures integral to
Agriculture Mechanics/Equipment/Structures	18401	farm operations; a study of electricity and power principles; and safety procedures.
Agriculture Mechanics, Equipment, 3th detailes	10401	Agriculture Mechanics and Equipment courses provide students with the engineering and power technology principles, skills, and knowledge that are specifically applicable to the agricultural industry. Typical topics include the operation, maintenance, and repair of power, electrical,
Agriculture Mechanics and Equipment	18402	hydraulic, and mechanical systems.
Agriculture Structures	18403	Agriculture Structures courses provide students with the skills and knowledge that are specifically applicable to the construction, maintenance, and repair of structures integral to the agricultural industry, including but not limited to animal enclosures, irrigation systems, and storage facilities. In these courses, students typically study design, planning, and construction knowledge and skills (such as survey, carpentry, plumbing, concrete, and electrical systems), in addition to the safe operation of tools and machines.
Agriculture Welding	18404	Agriculture Welding courses provide students with the skills and knowledge that are specifically applicable to the tools and equipment used in the agricultural industry. In learning to apply basic industrial knowledge and skills (engines, power, welding, and carpentry, among others), students may explore a broad range of topics, including the operation, mechanics, and care of farm tools and machines; the construction and repair of structures integral to farm operations; an introduction or review of electricity and power; and safety procedures.
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Particular Topics in Agricultural Mechanics and Construction	18405	These courses examine specific topics related to agricultural mechanics and construction, such as specific vehicles or structures, rather than provide a general study of mechanics and construction techniques.

		Courses provide students with the skills & knowledge that are
		specifically applicable to the welding industry with advance blueprint
		reading and welding in the OH, V and H position along with pipe welding
Advanced Agricultural Welding	18407	and TIG welding that could result in welding certification.
		Courses provide students with the skills & knowledge that are
		specifically applicable to the construction, maintenance, and repair of
		structures integral to the agricultural industry, including but not limited
		to animal enclosures, irrigation systems, & storage facilities. In these
		courses, students typically study design, planning, & construction
		knowledge & skills (such as survey, carpentry, plumbing, concrete, &
		electrical systems), in addition to the safe operation of tools and
Agricultural Fabrication	18409	machines.
		Courses provide students with the opportunity to learn how to service
		& recondition small engines, typically emphasizing two and four-cycle
		engines. Courses provide student with opportunities to troubleshoot
		and repair speed controls, lubrication, ignition, fuel, power transfer,
		cooling, exhaust, and starting systems; use hand, power, and overhaul
		tools; and read and interpret service manuals and parts' catalogs.
Small Gas Engines	18410	Applications may include lawn mowers, tractors, tillers, power tools.
		Courses enable students to understand the principles underlying
		various kinds of mechanics (aircraft, auto, diesel, & marine) and how
		energy is converted, transmitted, & controlled. Topics typically include
		maintaining & servicing machines, engines & devices while emphasizing
		energy sources, electricity, and power transmission. The courses may
		also provide information on career opportunities within the field of
Agricultural Power	18411	mechanics and/or transportation.
		Course provide instruction in layout and design of metal skills,
Agricultural Metals	18412	soldering, brazing and other cold metal work.
		Course provides students the opportunity to explore plastics in
Agricultural Plastics	18413	Agriculture and how plastics are used in the Ag Industry.
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		Courses in Agricultural Mechanics and Construction—Independent
		Study, often conducted with instructors as mentors, enable students to
		topics of interest related to agricultural mechanics and/or construction.
		Independent Study courses may serve as an opportunity for students to
Agricultural Mechanics and Construction—Independent		expand their expertise in a particular application, to explore a topic in
Study	18447	greater detail, or to develop more advanced skills.
Study	10447	Often with an emphasis on the conservation of natural resources and
		frequently including outdoor recreation topics, Wildlife Management
		courses provide students with the opportunity to understand and
		appreciate the importance of maintaining the land and ecological
		systems that enable nondomesticated animals to thrive. Wildlife
		Management courses emphasize how humans and animals may both
		take advantage of the same land or how to gain economic benefits from
		the land while not degrading its natural resources or depleting plant or
Wildlife Management	10501	
Wildlife Management	18501	animal populations. Forestry courses provide students with the information and experience
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		necessary for the cultivation, management, and care of forests or
		timberlands. Forestry courses cover topics such as the processes of
		regeneration and reforestation, harvesting and conservation of natural
		resources, erosion and pest control, trail development and
		maintenance, mapping and surveying, operation of forestry tools,
	40=00	government regulations, environmental stewardship, and recreational
Forestry	18502	use of forests.
		Forestry Harvesting courses involve the study of methods to manage,
		protect, and harvest timber stands and specialty forest crops;
		equipment maintenance and repair; the selection, planting,
		transplanting, and harvesting of trees; forest management; and safety
Forestry Harvesting	18503	procedures.
		Natural Resources Management courses combine the fields of ecology
		and conservation with planning for the efficient use and preservation of
		land, water, wildlife, and forests. Within the general area of natural
		resources management, these courses usually cover specific topics and
		uses, such as hunting or fishing preserves, forest production and
Natural Resources Management	18504	management, wildlife preservation, and human outdoor recreation.
Matarar Nesources Management	10304	management, whalie preservation, and human outdoor recreation.

		These courses examine specific topics related to natural resources, such
		as urban forestry or hunter education, rather than provide a general
Particular Topics in Natural Resources	18505	study of natural resource principles and topics.
		Courses combine the fields of ecology & conservation with planning for
		the efficient use and preservation of land, water, wildlife, and forests.
		Within the general area of natural resources management, these
		courses usually cover specific topics & uses, such as hunting or fishing
		preserves, forest production and management, wildlife ID, production
		and/or ecosystems management and preservation, and human outdoor
Environmental Resouces and Wildlife	18506	recreation.
		Course will cover the modern sources of energy that are used in
Energy Resources in Agriculture	18507	agriculture related to wind, ethanol, and Biodiesel fuels.
		Courses in Natural Resources—Independent Study, often conducted
		with instructors as mentors, enable students to explore topics of
		interest related to natural resources. Independent Study courses may
		serve as an opportunity for students to expand their expertise in a
		particular application, to explore a topic in greater detail, or to develop
Natural Resources—Independent Study	18547	more advanced skills.
		Courses in Agriculture, Food, and Natural Resources—Independent
		Study, often conducted with instructors as mentors, enable students to
		explore topic of interest related to agriculture, food, and natural
		resources. Independent Study courses may serve as an opportunity for
Agriculture, Food, and Natural Resources—Independent		students to expand their expertise in a particular application, to explore
Study	18997	a topic in greater detail, or to develop more advanced skills.
		Human Services Career Exploration courses introduce and expose
		students to the career opportunities pertaining to the provision of
		personal and consumer services for other human beings. Course topics
		vary and may include (but are not limited to) caring for others,
		education, cosmetology, apparel/textiles, entrepreneurship, labor laws,
		and customer service. Course activities depend upon the careers being
Human Services Career Exploration	10001	explored.

		Child Care courses provide students with knowledge about the physical,
		mental, emotional, and social growth and development of children
		from birth through childhood. Main topics include the fundamentals of
		working with infants, toddlers, and older children; providing healthy
		environments; evaluating child care settings; and the practices,
		regulations, and opportunities in the child care industry. Often, Child
		Care courses provide students with practical experience in a child care
		center. Advanced topics may include various learning theories;
		development of activities; operation of a child care center; recognition
		of childhood diseases, abuse, and neglect; and first aid/emergency
Child Care	19051	training.
		Child Development classes provide students with knowledge about the
		physical, mental, emotional, and social growth and development of
		children from conception to pre-school age, emphasizing the
		application of this knowledge in child care settings. These courses
		typically include related topics such as the appropriate care of infants,
Child Development	19052	toddlers, and young children.
		Elder Care courses emphasize the care of human beings as they grow
		older. These courses involve the study of the biological, physiological,
		social, and psychological needs and concerns of the elderly, and deal
		with the aging process, death, and dying in a realistic manner. Elder
		Care courses may cover work and personal habits appropriate to the
Elder Care	19053	field, and may also offer the opportunity to explore various careers.
		Caregiving Service courses emphasize the care of human beings who
		are unable or who need assistance to care for themselves. These
		courses involve the study of the biological, physiological, social, and
		psychological needs and concerns of young children, the elderly, and/or
		the disabled. Additional topics may include planning daily routines;
		appropriate environments and activities; growth and aging processes;
Caregiving Service	19054	and techniques for managing a center or working in others' homes.
		These courses examine specific topics related to child and elder care,
		such as regulations of the industry or caring for people with special
Particular Topics in Child and Elder Care	19055	needs, rather than providing a general study of child and elder care.

		Child and Elder Care—Independent Study courses, often conducted
		with instructors as mentors, enable students to explore topics of
		interest related to child and elder care. Independent Study courses may
		serve as an opportunity for students to expand their expertise in a
		particular application, to explore a topic in greater detail, or to develop
Child and Elder Care—Independent Study	19097	more advanced skills.
		Teaching Profession courses introduce students to the principles
		underlying teaching and learning, the responsibilities and duties of
		teachers, and the techniques of imparting knowledge and information.
		These courses typically expose students to and train them in classroom
		management, student behavior, leadership and human relations skills,
		assessment of student progress, teaching strategies, and various career
Teaching Profession		opportunities in the field of education.
		Educational Methodology courses prepare students to teach and guide
		others. These courses typically provide opportunities for students to
		develop their own teaching objectives, to design lesson plans, and to
		experience teaching in a controlled environment. Students examine and
		practice teaching strategies, learning styles, time management and
		planning strategies, presentation and questioning skills, classroom
Educational Methodology	19152	management, and evaluation techniques.
		Early Childhood Education courses address child development, care,
		and education issues, so that students can guide the development of
		young children in an educational setting. Study typically includes
		planning and implementing developmentally appropriate activities,
		basic health and safety practices, and legal requirements for teaching
Early Childhood Education	19153	young children.
		These courses examine specific topics in education other than those
		already described, such as management of school-age children, rather
Particular Topics in Education	19154	than providing a general study of the teaching profession.

		Courses introduce students to the principles underlying teaching and
		learning, the responsibilities and duties of teachers, and the techniques
		of imparting knowledge and information. These courses typically
		expose students to and train them in classroom management, student
		behavior, leadership, and human relations skills, assessment of student
		progress, teaching strategies and various career opportunities in the
		field of education. This course includes advanced work experience
Teaching as a Career	19155	opportunities.
		Education—Independent Study courses, often conducted with
		instructors as mentors, enable students to explore topics of interest
		related to education. Independent Study courses may serve as an
		opportunity for students to expand their expertise in a particular
		application, to explore a topic in greater detail, or to develop more
Education—Independent Study	19197	advanced skills.
		Clothing and Textiles courses introduce students to and expand upon
		the various aspects of apparel, garment construction, and the textile
		industry, conveying the commercial application of design principles,
		production processes, and maintenance techniques. These courses
		usually address the selection, characteristics, care, and repair of various
		textiles; operation and care of commercial sewing machines; design,
		construction, and production of fabrics and/or garments; and career
Clothing and Textiles	19201	opportunities in the garment or textile industry.
		Clothing/Textile Maintenance courses provide students with the
		knowledge and skills to clean, care for, and maintain clothing and
		textiles. Course topics typically include dry cleaning and laundering
		techniques, identifying fabrics and the optimal cleaning agents and
		processes, instruction in altering and repairing garments, and the safe
Clothing/Textile Maintenance	19202	use of the equipment, tools, and agents.

		Apparel Construction courses provide students with the knowledge and skill to construct, alter, and repair clothing and textile products. Course topics typically include taking measurements, creating and preparing patterns, and various sewing techniques; topics may also include
		customer service, fashion design principles, and business management.
		These courses may also offer specialized knowledge in a particular type
Apparel Construction	19203	of garment.
		Apparel and Textile Services courses introduce students to and expand
		upon various services that concern the care and maintenance of
		apparel, textiles, and furnishing. Course topics may include upholstery,
Apparel and Textile Services	19204	dry cleaning, commercial sewing, and tailoring.
		Home Furnishing courses provide students with basic knowledge
		regarding furnishing and decorating home environments. While
		exploring design principles, personal needs and style, and decision-
		making, students may also explore the following topics: color, texture,
		furniture styles and arrangement, lighting, window treatments, floor
		and wall coverings, and home improvement/modification. Home
		Furnishing courses may also cover architectural style and design and
Home Furnishing	19205	take a larger look at housing problems or current housing issues.
		Home Furnishings Production courses enable students to plan, select,
		and construct upholstery, slip covers, draperies and other window
		treatments, and other home accessories. Some courses may emphasize
		upholstery exclusively. Course content typically includes proper use of
Home Furnishings Production	19206	equipment, interior decorating principles, and employability skills.
0		These courses examine specific topics in apparel and furnishings other
		than those already described, such as tailoring or shoe repair, rather
Particular Topics in Apparel and Furnishings	19207	than providing a general study.
		Apparel and Furnishings—Independent Study courses, often conducted
		with instructors as mentors, enable students to explore topics of
		interest related to apparel, textiles, and furnishings. Independent Study
		courses may serve as an opportunity for students to expand their
		expertise in a particular application, to explore a topic in greater detail,
Apparel and Furnishings—Independent Study	19247	or to develop more advanced skills.

		Human Services—Independent Study courses, often conducted with
		instructors as mentors, enable students to explore topics of interest
		related to providing human services. Independent Study courses may
		serve as an opportunity for students to expand their expertise in a
		particular application, to explore a topic in greater detail, or to develop
Human Services—Independent Study	19997	more advanced skills.
		Exploration of Transportation, Distribution, and Logistics courses
		introduce students to careers that involve the planning, management,
		and movement of people, materials, and products using any of several
		modes of transport. Such careers may also involve infrastructure,
		vehicular maintenance and repair, and operating or managing facilities
		that hold what is being transported. Therefore, specific course topics
Exploration of Transportation, Distribution and Logistics	20001	vary widely and depend upon the careers being explored.
, ,		Truck and Bus Driving courses instruct students in the proper and safe
		handling and operation of trucks and buses. Strategies for driving in
		hazardous conditions, observing laws and regulations, loading cargo or
		passengers, documenting cargo loads, and expectations of driving
Truck and Bus Driving	20051	careers are all typical course topics.
		Heavy Equipment Operation courses enable students to safely operate
		the heavy equipment used for mining, construction, and utility
		industries. Typically, courses also include light maintenance principles
Heavy Equipment Operation	20052	and techniques.
		Aviation courses provide students with an understanding of the science
		of flight and typically include the history, regulations, and possible
		career paths within the aviation industry. Aviation courses usually cover
		physics, the relationships of weight and balance, principles of navigation
		and flight control, ground and airport operations and services, and
Aviation	20053	Federal Aviation Agency regulations.
		Boat Operation courses typically cover operation and maintenance of
		marine vehicles, marine navigation, and emergency procedures, as well
		as other skills necessary or useful for work or life at sea (e.g., loading
		and unloading or cooking). Specific topics may include docking and
		undocking a vessel, engine maintenance, commercial fishing,
Boat Operation	20054	firefighting aboard ship, and CPR.
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		Operation—Independent Study courses, often conducted with instructors as mentors, enable students to explore topics of interest related to the operation of vehicles. Independent Study courses may serve as an opportunity for students to expand their expertise in a
Operation—Independent Study	20097	particular application, to explore a topic in greater detail, or to develop more advanced skills.
		Energy/Power courses focus on one or several aspects of energy and power in transportation and work. Course content may include various sources of energy and their use in society (for example, characteristics, availability, conversion, storage, environmental impact, and socioeconomic aspects of various energy sources); principles involved in various means of energy transfer, such as electricity/electronics, hydraulics, pneumatics, heat transfer, and wind/nuclear/solar energies; and the transmission and control of power through mechanical or
 Energy/Power	20101	electrical devices such as motors and engines.
		Power and Mechanics courses enable students to understand the principles underlying various kinds of mechanics (aircraft, auto, diesel, and marine) and how energy is converted, transmitted, and controlled. Topics typically include maintaining and servicing machines, engines, and devices while emphasizing energy sources, electricity, and power transmission. The courses may also provide information on career
Power and Mechanics	20102	opportunities within the field of mechanics and/or transportation.
		Primarily intended as a personal automobile mechanics course, but also useful for students exploring future careers in automotive technologies, Introduction to Automobiles courses expose students to the various mechanical systems in automobiles and provide basic experience in maintenance tasks. The course may also cover career opportunities in
Introduction to Automobiles	20103	the automotive and/or transportation fields.

	Automotive Mechanics—Comprehensive courses emphasize the
	diagnosis and repair of automobile engines and support systems such as
	brakes, cooling, drive trains, electrical/electronics components,
	emission, fuel, ignition, steering, suspension, and transmissions. Course
	topics often include the comprehension and use of repair manuals,
	safety, and employability skills (including shop management and
Automotive Mechanics—Comprehensive	20104 entrepreneurship).
	These courses provide instruction in the mechanics of a particular
	system or condition, such as transmissions, brakes, fuel, exhaust, or
	electrical systems, rather than providing a general study of diagnosis
Particular Topics in Automotive Mechanics	20105 and repair of automobile mechanics.
	Automotive Service courses emphasize preventative auto maintenance
	and automobile troubleshooting. Course content typically includes tune-
	up, oil change, and lubrication skills; tire replacement, alignment, and
	balancing; and basic knowledge of brake, cooling, electrical, emission,
	fuel, ignition, steering, suspension, and transmission systems. These
	courses may also include public relations, sales techniques, and service
Automotive Service	20106 station management.
	Diesel Mechanics—Comprehensive courses prepare students to
	maintain and repair diesel engines and related systems. Specific course
	topics may include principles underlying diesel engines, analyzing
	electrical circuits and systems, troubleshooting and repairing cooling
	systems, testing and repairing air conditioning charging systems,
	reading and interpreting service manuals, and identifying the principles
	and components of fuel injection systems. Courses may also cover
Diesel Mechanics—Comprehensive	20107 safety, employability skills, and entrepreneurship.
	These courses cover specific topics relevant to occupations involving
	the maintenance and repair of vehicles with diesel engines, such as
	buses and trucks. One topic (or several closely related topics)
	concerning diesel mechanics is covered in specific detail in this type of
Particular Topics in Diesel Mechanics	20108 course.
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		Small Vehicle Mechanics courses equip students with the knowledge
		and skill to repair and maintain engines in small vehicles (e.g.,
		motorcycles, all-terrain vehicles, snowmobiles, and mopeds). Topics
		include (but are not limited to) maintaining frames and suspension,
		wheels and brakes, and drive trains; servicing fuel, exhaust, and
		electrical systems; performing tune-ups; and maintaining and repairing
		engines. Students may also learn safety on the job, employability skills,
Small Vehicle Mechanics	20109	and entrepreneurship.
		Small Engine Mechanics courses provide students with the opportunity
		to learn how to service and recondition small engines, typically
		emphasizing two- and four-cycle engines. These courses provide
		students with opportunities to troubleshoot and repair speed controls,
		lubrication, ignition, fuel, power transfer, cooling, exhaust, and starting
		systems; use hand, power, and overhaul tools; and read and interpret
		service manuals and parts' catalogs. Applications may include lawn
Small Engine Mechanics	20110	mowers, tractors, tillers, power tools, and so on.
		The content of Marine Mechanics courses includes the service and
		repair of electrical, mechanical, power transfer, hydraulic, fuel, and
		cooling systems as applied to boat and/or ship engines; boat rigging;
		trailers; and marine-related merchandise. Courses may also cover
		communication, human relations, and employability skills, as well as
Marine Mechanics	20111	safe, efficient work practices.
		Heavy Equipment Mechanics courses include the service and repair of
		electrical, mechanical, power transfer, hydraulic, fuel, and cooling
		systems of heavy equipment such as that used in mining, construction,
Heavy Equipment Mechanics	20112	and utility industries.
		Aircraft Power Plant courses provide students with the information
		necessary to troubleshoot, test, repair, and install aircraft engines.
		Course content usually includes engine ignition, electrical, lubrication,
		cooling, exhaust, and fuel systems, along with aircraft instrumentation
Aircraft Power Plant	20113	and safety features.

		Aircraft Airframe courses offer students information and instruction
		related to the structure and mechanics of aircraft, typically including
		hydraulic, pneumatic, instrumental, fuel, electrical, cabin atmosphere,
		and landing gear systems. Aircraft Airframe courses may also cover
Aircraft Airframe	20114	aircraft metals and coverings and related welding skills.
		Automotive Detailing and Reconditioning courses provide students with
		knowledge and skills related to repairing, refinishing, and detailing
		automobiles. Course topics typically include painting and refinishing,
		plastics and adhesives, damage analysis, and repair, in addition to
Automotive Detailing and Reconditioning	20115	occupational safety, employability, and entrepreneurship skills.
		Automotive Body Repair and Refinishing courses provide students with
		knowledge and skills regarding the repair and refinishing of damaged or
		used cars. Course content may include (but is not limited to) stretching
		and shrinking auto body sheet metal; welding skills; frame and metal
		straightening; repair of fiberglass and synthetic materials; removing,
		repairing, and installing auto body parts such as panels, hoods, doors,
		and windows/glass; preparing vehicles and vehicle surfaces for
		refinishing; painting; applying body fillers; and estimating material and
Automotive Body Repair and Refinishing—Comprehensive	20116	labor costs.
		These courses provide specific instruction in individual topics relevant
		to the repair and refinishing of automobile bodies and surfaces. One
		topic or several closely related topics (such as nonstructural part
Particular Topics in Automotive Body Repair and		replacement, auto body welding, or plastic repair) receive particular
Refinishing	20117	attention in this type of course.
		Boat Repair/Refinishing courses convey a broad range of information
		and skills about how to repair and refinish boat mechanics, structures,
		and surfaces. In these courses, students become proficient in marine
		terminology, learn how to describe types of marine manufacturing and
		occupations, and prepare new and existing wood, fiberglass, and metal
		surfaces for painting or refinishing. These courses often cover safety,
Boat Repair/Refinishing	20118	employability skills, and entrepreneurship.

		Mechanics and Repair—Independent Study courses, often conducted
		with instructors as mentors, enable students to explore topics of
		interest related to the maintenance of vehicles and engines.
		Independent Study courses may serve as an opportunity for students to
		expand their expertise in a particular application, to explore a topic in
Mechanics and Repair—Independent Study	20147	greater detail, or to develop more advanced skills.
		Distribution—Comprehensive courses provide students with knowledge
		and skills related to the safe and efficient delivery of commodities to
		various markets. Course content typically includes the comparative
		advantages of various forms of transportation, distribution networks,
		processes for tracking large shipments of material, transportation of
Distribution—Comprehensive	20151	
Distribution—Comprehensive	20151	goods in a safe and secure manner, and packaging. Warehouse Operations courses convey the principles and processes
		underlying the receiving, loading and unloading, tracking, and storing of
		large quantities of materials. Course topics typically include a variety of
		logistical implications for moving materials by several different modes
		of transportation, safety and security, and appropriate storage
Warehouse Operations	20152	techniques.
		Distribution and Logistics—Independent Study courses, often
		conducted with instructors as mentors, enable students to explore
		topics of interest related to distribution and logistics. Independent
		Study courses may serve as an opportunity for students to expand their
		expertise in a particular application, to explore a topic in greater detail,
Distribution and Logistics—Independent Study	20197	or to develop more advanced skills.
		Transportation, Distribution, and Logistics—Independent Study courses,
		often conducted with instructors as mentors, enable students to
		explore topics of interest related to transportation, distribution, and
		logistics. Independent Study courses may serve as an opportunity for
Transportation, Distribution and Logistics—Independent		students to expand their expertise in a particular application, to explore
Study	20997	a topic in greater detail, or to develop more advanced skills.

	Pre-Engineering Technology courses integrate technology	nology-oriented
	applications of mathematics and science into pre-en	ngineering activities
	for students. Course topics may include material sci	ences, technology
Pre-Engineering Technology	21001 processes, enterprises, and career opportunities.	
	Engineering Applications courses provide students	with an overview of
	the practical uses of a variety of engineering applica-	ations. Topics
	covered usually include hydraulics, pneumatics, cor	nputer interfacing,
	robotics, computer-aided design, computer numeri	cal control, and
Engineering Applications	21002 electronics.	
	Engineering Technology courses provide students w	vith the opportunity
	to focus on one or more areas of industrial technological	ogy. Students apply
	technological processes to solve real engineering pr	oblems; develop the
	knowledge and skills to design, modify, use, and ap	ply technology; and
	may also design and build prototypes and working i	nodels. Topics
	covered in the course include the nature of technol	ogy, use of
Engineering Technology	21003 technology, and design processes.	
	Principles of Engineering courses provide students v	with an
	understanding of the engineering/technology field.	Students typically
	explore how engineers use various technology syste	ems and
	manufacturing processes to solve problems; they m	ay also gain an
	appreciation of the social and political consequence	es of technological
Principles of Engineering	21004 change.	
	Engineering—Comprehensive courses introduce stu	•
	their knowledge of major engineering concepts suc	•
	systems, design, optimization, technology-society in	
	ethics. Particular topics often include applied engin	
	systems, communicating technical information, eng	
	principles, material science, research and developm	•
	manufacturing techniques and systems. The course	
Engineering—Comprehensive	21005 opportunities and challenges in various branches of	engineering.

		Engineering Design courses offer students experience in solving
		problems by applying a design development process. Often using solid
		modeling computer design software, students develop, analyze, and
		test product solutions models as well as communicate the features of
Engineering Design	21006	those models.
		Engineering Design and Development courses provide students with the
		opportunity to apply engineering research principles as they design and
		construct a solution to an engineering problem. Students typically
		develop and test solutions using computer simulations or models but
Engineering Design and Development	21007	eventually create a working prototype as part of the design solution.
		Digital Electronics courses teach students how to use applied logic in
		the development of electronic circuits and devices. Students may use
		computer simulation software to design and test digital circuitry prior
Digital Electronics	21008	to the actual construction of circuits and devices.
		Robotics courses develop and expand students' skills and knowledge so
		that they can design and develop robotic devices. Topics covered in the
		course may include mechanics, electrical and motor controls,
Robotics	21009	pneumatics, computer basics, and programmable logic controllers.
		Computer Integrated Manufacturing courses involve the study of
		robotics and automation. Building on computer solid modeling skills,
		students may use computer numerical control (CNC) equipment to
		produce actual models of their three-dimensional designs. Course
		topics may also include fundamental concepts of robotics, automated
Computer Integrated Manufacturing	21010	manufacturing, and design analysis.
		Civil Engineering courses expose students to the concepts and skills
		used by urban planners, developers, and builders. Students may be
		trained in soil sampling and analysis, topography and surveying, and
		drafting or blueprint-reading. Additional course topics may include
Civil Engineering	21011	traffic analysis, geologic principles, and urban design.

		Civil Engine puing and Aughitacture appropriate attractions
		Civil Engineering and Architecture courses provide students with an
		overview of the fields of Civil Engineering and Architecture while
		emphasizing the interrelationship of both fields. Students typically use
		software to address real world problems and to communicate the
		solutions that they develop. Course topics typically include the roles of
		civil engineers and architects, project-planning, site-planning, building
Civil Engineering and Architecture	21012	design, project documentation, and presentation.
		These courses examine specific topics in engineering other than those
Particular Topics in Engineering	21015	already described.
		Research in Environmental Science and Engineering courses examine
		the mutual relationships between organisms and their environment to
		identify and analyze environmental problems, evaluate the relative risks
		associated with the problems, and examine engineering solutions for
		resolving and/or preventing them. Topics covered include
		environmental and ecological processes, energy and sustainability,
		interconnected biological and human systems, the impact of humans on
		natural systems, cultural and societal contexts of environmental
		problems, and the utilization of engineering designs that will ensure
Research in Environmental Science and Engineering	21016	sustainable systems.
		Engineering—Independent Study courses, often conducted with
		instructors as mentors, enable students to explore topics of interest
		related to engineering. Independent Study courses may serve as an
		opportunity for students to expand their expertise in a particular
		application, to explore a topic in greater detail, or to develop more
Engineering—Independent Study	21047	advanced skills.
		Technological Literacy courses expose students to the communication,
		transportation, energy, production, biotechnology, and integrated
		technology systems and processes that affect their lives. The study of
		these processes enables students to better understand technological
Technological Literacy	21051	systems and their applications and uses.
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		Technological Processes courses provide students with the opportunity
		to focus on one or more areas of industrial technology, applying
		technological processes to solve real problems and developing the
		knowledge and skills to design, modify, use, and apply technology
		appropriately. Students may examine case studies, explore simulations,
Technological Processes	21052	or design and build prototypes and working models.
		Emerging Technologies courses emphasize students' exposure to and
		understanding of new and emerging technologies. The range of
		technological issues varies widely but typically include lasers, fiber
		options, electronics, robotics, computer technologies, CAD/CAM,
Emerging Technologies	21053	communication modalities, and transportation technologies.
		Technology Innovation and Assessment courses use engineering design
		activities to help students understand how criteria, constraints, and
		processes affect design solutions and provide students with the skills to
		systematically assess technological developments or solutions. Course
		topics may include brainstorming, visualizing, modeling, simulating,
Technology Innovation and Assessment	21054	constructing, testing, and refining designs.
		Aerospace Technology courses introduce students to the technology
		systems used in the aerospace industry and their interrelationships.
		Examples of such systems include satellite communications systems,
		composite materials in airframe manufacturing, space station
		constructions techniques, space shuttle propulsion systems, aerostatics,
Aerospace Technology	21055	and aerodynamics.
		These courses examine specific topics in technology applications other
Particular Topics in Technology Applications	21056	than those already described.
		Technology—Independent Study courses, often conducted with
		instructors as mentors, enable students to explore topics of interest
		related to technology systems and processes. Independent Study
		courses may serve as an opportunity for students to expand their
		expertise in a particular application, to explore a topic in greater detail,
Technology—Independent Study	21097	or to develop more advanced skills.
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	Geared for students with an interest in careers that use drafting skills
	and applications, Drafting Careers Exploration courses expose students
	to the opportunities available for draftspeople (engineering,
	architectural, industrial, and so on). These courses serve to introduce
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	basic skills and the field in general, providing students with the
24404	opportunity to identify a focus for continued study or to determine that
21101	their interests lie elsewhere.
	Drafting—General courses, usually offered as a sequence of courses,
	introduce students to the technical craft of drawing illustrations to
	represent and/or analyze design specifications and then refine the skills
	necessary for this craft. Drafting—General courses use exercises from a
	variety of applications to provide students with the knowledge and
	experience to develop the ability to perform freehand sketching,
	lettering, geometric construction, and multiview projections and to
	produce various types of drawings (working, detail, assembly,
	schematic, perspective, and so on). Computer-aided drafting (CAD)
	systems (if available) are typically introduced and used to fulfill course
21102	objectives.
	Drafting—Architectural courses introduce students to and help them
	refine the technical craft of drawing illustrations to represent and/or
	analyze design specifications, using examples drawn from architectural
	applications. These courses are intended to help students develop
	general drafting skills, but place a particular emphasis on interior and
	exterior residential (and light commercial) design, site orientation, floor
	plans, electrical plans, design sketches, and presentation drawings. In
21103	addition, students may prepare scale models.
	Drafting—Civil/Structural courses introduce students to and help them
	refine the technical craft of drawing illustrations to represent and/or
	analyze design specifications, using examples drawn from civil
	engineering and/or structural applications. These courses are intended
	to help students develop general drafting skills, but place a particular
21104	emphasis on skills needed for typography and survey work.
	21102

Drafting—Electrical/Electronic courses introduce students to and help
them refine the technical craft of drawing illustrations to represent
and/or analyze design specifications, using examples drawn from
electric and/or electronic fields. These courses are intended to help
students develop general drafting skills, but place a particular emphasis
on those skills needed for electrical and electronic schematics.
Drafting—Technical/Mechanical courses introduce students to and help
them refine the technical craft of drawing illustrations to represent
and/or analyze design specifications, using examples drawn from
industrial applications. These courses are intended to help students
develop general drafting skills, but place a particular emphasis on
sectioning, auxiliary views, revolutions, and surface development. In
these courses, students typically learn basic machining and fabrication
processes as they draw schematic diagrams featuring cams, gears,
6 linkages, levers, pulleys, and so on.
Frequently offered as an intermediary step to more advanced drafting
courses (or as a concurrent course), CAD Design and Software courses
introduce students to the computer-aided drafting systems available in
7 the industry.
Blueprint Reading courses provide students with the knowledge and
ability to interpret the lines, symbols, and conventions of drafted
blueprints. They generally emphasize interpreting, not producing,
blueprints, although the courses may provide both types of
experiences. Blueprint Reading courses typically use examples from a
8 wide variety of industrial and technological applications.
Advanced research and application course that covers specific topics in
design & pre-construction (drafting/architecture) to include
9 management and "green design" skills.
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		GIS Technology courses provide familiarity with tools necessary to
		design and utilize discipline specific data. Areas covered are: Mapping,
		Cartography and Computer Assisted Drafting, Photogrammetry and
		Remote Sensing, Spatial Statistics, and Geographic Information Display
		Systems. Students will learn to identify appropriate tools for specific
		tasks and work with data input from maps, aerial photos, and satellite
GIS Technology	21111	imagery to build further representation utilizing the tools covered.
		GIS Spatial Applications courses apply technology skills to build and
		utilize representations of three-dimensional space to provide location
		information, data collection, and statistical information to build
		representations appropriate for use in areas such as conservation,
		urban planning, flight, human networks, geographic surveying and
		topography, and patterns and processes related to multidimensional
GIS Spatial Application	21112	data.
		Drafting—Independent Study courses, often conducted with instructors
		as mentors, enable students to explore drafting-related topics of
		interest. Independent Study courses may serve as an opportunity for
		students to expand their expertise in a particular application, to explore
Drafting—Independent Study	21147	a topic in greater detail, or to develop more advanced skills.
Draiting—independent Study	2114/	An advanced level course that provides students with the knowledge
Advanced Drafting/CAD	21150	and skills needed to utilize CAD design and software.
ratanesa Braiting/ 6/15	21130	Tana simo necaca to atinze on b acoign and software.

		Foundations of Electronics courses offer instruction in the basic concepts of electronics and electronic components; electrical quantities and units; basic circuits, laws and measurements; circuit components; multiple-load circuits; complex-circuit analysis; magnetism and electromagnetism; alternating current and voltage; power in ac circuits; capacitance; inductance; transformers; R, C, and L circuits; electric motors; instruments and measurements; algebraic, trigonometric, and logarithmic tenets as applied to electronic components, theory of electricity and in the terminology, skills, and safety procedures common to careers involving electricity and
		electronics. Students will demonstrate acceptable soldering and desoldering techniques, knowledge of surface mount technology,
		methods for building circuitry and proper utilization of electronic
Foundations of Eletronics	21201	components such as capacitors, LEDs, and transistors. Project Management courses provide students with the information
		and skills necessary for success in managing projects and operating
		logistical ventures in technology, business, and industry. This course
		covers scheduling of resources (including personnel, budget, timelines,
		and equipment), utilization of Gantt charts, economic principles within
		the workplace, and risk management. Other possible topics include
		developing a business plan, finance, business law, marketing and
		promotion strategies, insurance employee/employer relations, problem-
		solving and decision-making, and building leadership skills. These
Due is at Management and Desayuse Cabaduling	24205	courses may also incorporate a survey of the careers within technology
Project Management and Resource Scheduling	21205	and engineering industries.
		Materials Science and Engineering courses expose students to the tools,
		machines, and processes that may be encountered in the interface between manufacturing and engineering. In particular, these courses
		stress the study of properties and analysis of those materials: testing
		and processing metals, plastics, woods, ceramics, and composite
		materials utilized in the process of constructing usable products. These
		courses enable students to experience development of an idea into a
		finished product, with instruction in planning, designing, selecting
Materials Science and Engineering	21252	materials, and using appropriate tools and machines.

		Engineering and Technology—Independent Study courses, often
		conducted with instructors as mentors, enable students to explore
		topics of interest related to engineering and/or technology.
		Independent Study courses may serve as an opportunity for students to
		expand their expertise in a particular application, to explore a topic in
Engineering and Technology—Independent Study	21997	greater detail, or to develop more advanced skills.
		Family and Consumer Science—Comprehensive courses are inclusive
		studies of the knowledge and skills that are useful for the efficient and
		productive management of the home. Course topics typically include
		foods and nutrition; clothing; child development and care; housing
		design, decoration, and maintenance; consumer decisions and personal
Family and Consumer Science—Comprehensive	22201	financial management; and interpersonal relationships.
		Food and Nutrition courses provide students with an understanding of
		food's role in society, instruction in how to plan and prepare meals,
		experience in the proper use of equipment and utensils, and
		background on the nutritional needs and requirements for healthy
		living. Some classes place a heavier emphasis on the nutritional
		components of a balanced diet, while others concentrate on specific
		types of food preparation. Although these courses may present career
		opportunities in the food service industry, their emphasis is not career-
Food and Nutrition	22202	related.
		Food Science courses offer opportunities to study the composition,
		structure, and properties of foods and the chemical changes that occur
		during the processing, storage, preparation, and consumption of food.
		These courses often explore the effects of various materials,
		microorganisms, and processes on food products through laboratory
Food Science	22203	experiments.

		Child Development/Parenting courses provide students with knowledge
		about the physical, mental, emotional, and social growth and
		development of children from conception to pre-school age. In
		addition, these courses help students discover how parents should
		respond to the various stages of childhood. Course content typically
		includes topics such as prenatal and birth processes; responsibilities and
		difficulties of parenthood; fundamentals of children's emotional and
		physical development; and the appropriate care of infants, toddlers,
Child Development/Parenting	22204	and young children.
		Clothing/Sewing courses introduce students to and expand their
		knowledge of various aspects of wearing apparel, sewing, and fashion.
		These courses typically include wardrobe planning; selection, care, and
		repair of various materials; and construction of one or more garments.
		They may also include related topics, such as fashion design, fashion
		history, the social and psychological aspects of clothing, careers in the
Clothing/Sewing	22205	clothing industry, and craft sewing.
		Consumer Economics/Personal Finance courses provide students with
		an understanding of the concepts and principles involved in managing
		one's personal finances. Topics may include savings and investing,
		credit, insurance, taxes and social security, spending patterns and
		budget planning, contracts, and consumer protection. These courses
Consumer Economics/Personal Finance	22210	may also provide an overview of the American economy.
		Home Decor courses provide students with knowledge and skills
		regarding interior design and decoration of the home for the individual
		or family. While exploring design principles, personal needs and style,
		and decision-making, students may have an opportunity to explore such
		topics as color, texture, furniture styles and arrangement, lighting,
		window treatments, floor and wall coverings, and home
		improvement/modification. These courses emphasize personal (rather
Home Décor	22211	than commercial) use and application of home décor principles.

		An application course to instruct students in skills necessary to design
		interior spaces that acknowledge client needs, legislated codes, historic,
		current, and future trends, and public policy. The first half of this
		course would be taught to FACS students only. The Drafting students
		would have taken intro to drafting, followed by this in the second
Interior Design	22212	semester.
		Nutrition & Health Science courses focus on biological systems and
		personal health topics such as nutrition, stress management,
		drug/alcohol abuse prevention as functions of biological impact on body
		systems. Key biological concepts addressed include: homeostasis,
		metabolism, inheritance of traits, feedback systems, and defense
Nutrition and Health Science	22213	against disease.
		Consumer and Personal Finance B, explores the relationship of basic
		money management and consumer decision-making across the lifespan.
		It includes an in-depth look at risk management, use of credit,
		consumer rights and responsibilities, setting goals and impact of the
		family on personal financial decision making. How to make wise
		choices to develop a healthy financial self will be a major component of
		this course as well as an introduction to the occupations related to the
Consumer and Personal Finance B	22220	
		Family and Consumer Science—Independent Study courses, often
		conducted with instructors as mentors, enable students to explore
		topics of interest related to home- and self-management. Independent
		Study courses may provide students with an opportunity to expand
		their expertise in a particular application, to explore a topic in greater
Family and Consumer Science—Independent Study	22247	detail, or to develop more advanced skills.
		Introduction to Drawing emphasizes the development of fundamental
		drawing skills. Focus will be on the application of art theory, processes
		and techniques that increase the power of observation. Instruction
		includes the elements and principles of design as applied in composition
Introduction to Drawing	30005	through hard copy and/or electronic software.

		21st Century Journalism promotes the development of the skill set
		needed today and in the future. Topics include an exploration of the
		role media and the communications industry has in society, the
		development of the technical skills related to journalistic writing and
24.1 C 1 1	20400	interviewing, as well as understand the ethical and legal issues related
21st Century Journalism	30100	to the field.
		A principle of Illustration explores a variety of media, tools and supports
		as a means to communicate ideas. Topics include an understanding of
		illustration as it applicable to careers in graphic design, animation,
		fashion/textile design, industrial design, web design, architecture,
		interior design and/or fine arts. Techniques in traditional and digital
		illustration applications will be explored as directly linked to ever-
Principles of Illustration	30101	changing social trends.
		Graphic Design Fundamentals provides a basic understanding of the
		graphic design process. Topics include analyzing the design elements
		and principles, exploring industry tools, software and equipment and
Graphic Design Fundamentals	30102	learning composition techniques to develop a quality product.
		Audio Video Production Fundamentals provides a basic understanding
		of producing video for a variety of uses. Topics include analyzing the
		pre-production, production and post-production process, as well as
		explore the equipment and techniques used to develop a quality audio
Audio Video Production Fundamentals	30103	video product.
		Digital Media Technology teaches the technical skills needed to work
		with electronic media. Topics include exploring the use of digital
		imaging and video today and in the future, a study of the relationship of
		work flow to project planning and completion and the software,
Digital Media Technology	30104	equipment and tools used in the industry.
		Photo Imaging teaches the technical skills need to produce quality
		images for use in a variety of applications. Topics include use of
		equipment, software and techniques to take, edit and manipulate
Photo Imaging	30105	digital images.

Essentials of Interior and Textile Design Trends in Interior and Textile Design		Essentials of Interior and Textile Design introduces students to and expands upon the various aspects of industry, conveying the commercial application of principles and elements of design, production processes, and maintenance techniques to meet the design needs of humans. This course will also provide a discussion and exploration of career opportunities in interior, textiles, and set/exhibit design. A trend in Interior and Textile Design examines special topics in interiors and apparel that meet the needs of humans now and projected in the future, rather than providing a general study. Topics include sustainable design, shelter/apparel for diverse populations (such as aging, special needs, etc.), and how trends are developed. Additional topics will be generated as trends are identified.
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Interior and Textile Merchandising	30112	Interior and Textile Merchandising is a course that centers upon the merchandising of interior and textile products in a variety of settings. Topics include exploring cycles, trends and style as well as the techniques in coordination, promotion, display and sales of interior and textile items. Basic management and entrepreneurship will be introduced as will the relationship of the skills to set and exhibit design. Video Production applies the technical skills learned in Audio Video Production Fundamentals by allowing students to orchestrate projects from setting the objectives to the post-production evaluation. The subject of the presentation may be determined in a number of ways, but must address an authentic need. The complexity of the presentation is not the focus of this course but the experience of the entire process is, including planning the presentation, setting up the
		studio (if applies), acting as the videographer, and editor to make it fluid
Video Production	30150	and seamless.
	33230	Digital Media Design and Production will provide students with the
		opportunity to apply the fundamental techniques learned in the Digital
		Media Technology course through the production of a multi-media
		project for public presentation. Topics include developing a production
		schedule, working as a team, utilizing composition principles, and
Digital Media Design and Production	30151	embedding audio, video or other content in digital formats.

	Interior and Textile Design Studio provides students with the	
	opportunity to expand knowledge and experiences with 4-dimension	nal
	design forms as they relate to human needs. Topics will include the	
	language, materials, and processes used to apply the design elemer	ıts
	and principles based upon designers, periods, and styles. As studen	ıts
	advance and become more adept, the instruction regarding the cre-	ative
	process becomes more refined, and students are encouraged to	
	develop their own design styles to meet the needs of a client. This	
	application course is client driven in the interior, textile or apparel	
Interior and Textile Design Studio	30160 fields.	
	Applied Business Development students will practice skills of planni	ng,
	organizing, directing and controlling functions of operating a busine	ess:
	while assuming the responsibilities and risks involved. Students will	
	develop skills in enterprise development, market analysis and finance	cial
	preparation. These courses includes classroom activities as well as	
	involving further study of the field and discussion regarding real-wo	rld
	experiences and applications that students encounter in owning and	d
Applied Business Development	32200 managing a business.	
	This course provides students with the knowledge and skills related	to
	the event planning and implementation process. It will include	
	establishing client relationships, the importance of communication,	,
	planning process, resource management, quality service and staffin	g
Event Planning and Management	34052 issues.	
	Food Technology and Development explores the basics of food	
	production from a science perspective and how the concepts impac	:t
	our food supply. This course would focus on the technological	
	advancements in nutrition, food production; value added products	and
	food storage. Topics may include use of chemicals or additives on o	r in
	foods, meaning of terms such as "organic" and "all-natural", and ma	ay
	include students developing and marketing a new food product to r	neet
Food Technology and Development	34053 an identified need.	

		This course provides students with an overview of the knowledge and
		skills related to the business of lodging. It will include an exploration of
		the many aspects of the industry, basic processes and procedures (i.e.
Foundations of Lodging	34054	housekeeping, check in procedures) as well as the guest cycle.
		Culinary Art—General Skill Specialty will focus upon the skills generally
		recognized as important to the field of culinary arts. Topics will include
		plating, garnishes, soups, sauces and main dish presentation. Bakery
		and desserts will be introduced, but not the main focus on this course.
		Catering experiences may be included as well as observations of those
		already in the field that are responsible for these areas in food
Culinary Art - General Skill Specialty	34056	production or a culinary kitchen.
		Culinary Art-Bakery/Grains Specialty will focus upon the instruction and
		skill development related to bakery items. Topics may include study of
		grain production, nutrition values and product performance as well as
		the application to grain products. Baking experiences may include yeast
		breads, quick breads, cakes (and cake decoration) and other baked
		desserts, product outcomes using various flours and storage methods.
Culinary Art - Bakery/Grains Specialty	34057	An entrepreneurship experience may be part of this course.
		Culinary Art—International Specialty will focus on the skills required
		when developing an understanding of the diversity and uniqueness of
		foods across the globe. Topics may range from specific regions of the
		United States, to the different cultures and food habits around the
		world. Particular attention will be made to keep the experiences as real
Culinamy Aut. Intermedianal engalation	24050	as possible using authentic ingredients, procedures and equipment. An
Culinary Art - International specialty	34058	entrepreneurship experience may be part of this course.
		This course builds upon the Baking and Pastry I course by refining and
		expanding skills of production management. Topics also include
Paking and Pastru II	24050	analyzing the scientific reactions during production and expanding the
Baking and Pastry II	34059	skill development to address the finer aspects of the field.

		s is the second in a sequence of courses related to the lodging
		ustry that shares more specifics related to working within the
	bus	siness. It will include property management, guest services,
	hot	tel/motel registration systems, services and amenities. Other topics
	ma	y include, but not limited to basic business practices, quality service,
Lodging Management	34155 sta	ffing issues and current technology
	Thi	s is the third in a sequence of lodging courses that expands the
	und	derstanding of the industry to include the trends, marketing and an in-
	der	oth look at customer service issues (i.e. communication skills, conflict
Lodging Management II		olution, active listening).
	Thi	s course applies the skills needed in the culinary arts profession. It
	inc	ludes the application of skills within a school-based, community-
	bas	sed experience or work-based internship and will cover an
	intı	roduction of all aspects of an industry. Students enrolled in this
	cou	urse are expected to have mastered skills in the culinary field so that
	the	ey are able to apply them in authentic experiences following industry
Culinary Applications		ndards and regulations. Local prerequisites apply.
	Thi	s course is designed to provide an authentic experience within the
	lod	ging industry. Content will include the analysis, observation and
	der	monstration of skills necessary for success. An introduction to all
	asp	pects of the industry will be included (i.e. management, financial,
Lodging Management Applications	34200 fro	nt office, housekeeping, food service and guest services).
	Thi	s course provides students with an orientation to the health care
	ind	ustry and helps refine their health care-related knowledge and skills.
	Тор	oics covered include (but are not limited to) an overview of health
	car	e delivery; anatomy and physiology; identification of medical
	equ	uipment and supplies; medical terminology; hygiene and disease
Health Science II A	36002 pre	evention.
	Thi	s course provides students with an orientation to the health care
	ind	lustry and helps refine their health care-related knowledge and skills.
	Top	oics covered include (but are not limited to) patient care, including
	l '	essment of vital signs, body mechanics, and diet; first aid and CPR
		ocedures; laboratory procedures; and ethical and legal
Health Science II B	l l'	ponsibilities.
		,

		This course will teach students how to care for individuals within their
		homes. Course content will include patient care, comfort, and safety;
		anatomy and physiology; the prevention of disease and infection;
		nutrition and meal preparation; human relations; and first aid and CPR.
		Additional topics that must be included to receive a full credit are
Home Health Care	36053	therapy strategies, household management and employability.
		This course will place an emphasis on the knowledge and skills needed
		in medical emergencies. Topics typically include clearing airway
		obstructions, controlling bleeding, bandaging, methods for lifting and
		transporting injured persons, simple spinal immobilization, infection
		control, stabilizing fractures, and responding to cardiac arrest. Content
		may also cover legal and ethical responsibilities involved in dealing with
		medical emergencies. To receive a full credit for this course, topics
		above and beyond those listed above must be integrated into the
Emergency Medical Technology B	36055	curriculum.
		The course content for this course will emphasize the knowledge and
		skills necessary to assist a pharmacist or pharmacy technician. Course
		content will enable the student to understand medical terminology,
		keep and maintain records, label medications, perform computer
		patient billing, perform stock inventory, and order supplies. To receive
		a full credit for this course, it must include pharmaceutical classification,
		drug interactions and interpersonal/communication skills. (This is a 1
Pharmacy Assistant	36152	credit course.)
		In this course students will learn how to identify medical terms by
		analyzing their components. This course will emphasize defining
		medical prefixes, root words, suffixes, and abbreviations. To receive a
		full credit for this course a primary focus must be integrated into the
		course to emphasize the development of both oral and written skills in
		the language used to communicate within health care professions. (This
Medical Terminology	36154	is a 1 credit course)

Biotechnology B	36252	This course is the study of the bioprocesses of organisms, cells, and/or their components. The course will enable students to use this knowledge to produce or refine products, procedures, and techniques. Course topics include laboratory measurement, monitoring and calculation; growth and reproduction; chemistry and biology of living systems; quantitative problem-solving; data acquisition and display; and ethics. Advanced topics must be included for the 1 credit course biochemistry and genetics.
Special Health Science Topics B		This course will examine particular topics in health science other than those taught in the core sequence of courses. Topics to be included in this course are Pharmacy Technician, Sports Medicine, Phlebotomy, Gerontology, and Veterinary Assistant. To receive a full credit for this course, topics above and beyond those listed above must be integrated into the curriculum.
		This course content will provide students with work experience in the five career pathways. Goals are typically set cooperatively by the student, parents, teachers and employers. The course will include classroom activities involving research of the various careers in the health profession and one rotation within each of the five pathways for the Health Science Education cluster. The rotational clinical/shadowing experience for students may occur at a variety of settings (i.e., dentist office, Therapeutic; occupational therapy, diagnostic; social worker, Health Informatics; interpreter, Support Services; pharmacy,
Health Science III Classroom/Work Experience	36991	Biotechnology). The work experience may be paid or unpaid. Students are required to rotate through a career from each of the five pathways for a Health Science Education cluster. Work experience only is developed to provide a rotational clinical school or an experience for
Health Science IV		is developed to provide a rotational clinical/shadowing experience for the students at a variety of settings (i.e., dentist office, Therapeutic; occupational therapy, diagnostic; social worker, Health Informatics; interpreter, Support Services; pharmacy, Biotechnology). Goals are typically set cooperatively by the student, parents, teacher and employer. The work experience may be paid or unpaid.

		Students are required to rotate through a career from each of the five
		pathways for a Health Science Education cluster. Work experience only
		is developed to provide a rotational clinical/shadowing experience for
		the students at a variety of settings (i.e., dentist office, Therapeutic;
		occupational therapy, diagnostic; social worker, Health Informatics;
		interpreter, Support Services; pharmacy, Biotechnology). Goals are
		typically set cooperatively by the student, parents, teacher and
		employer. The work experience may be paid or unpaid. Additional
		course content may include but is not limited to leadership skills and
Health Science V	36993	research of personal career interests in healthcare.
		This course provides an opportunity for students to participate in both
		the classroom and in one or more work experience rotations in each of
		the five pathways of the Health Science Education career cluster.
		During rotation opportunities, students will gain knowledge and skills
		required of all aspects of the healthcare profession. Students must
		complete at least five (5) rotations during the semester that encompass
		occupations representing Diagnostic Services, Therapeutic Services,
		Health Informatics, Support Services and Biotechnology. Teaching and
		learning experiences to be included but not limited to are portfolio
		development, documentation of daily shadowing experiences,
		appropriate communication skills, and proper application of HIPPA rules
		and regulations. Additional course content may include but is not
		limited to leadership skills and research of personal career interests in
Health Science VI (Classroom and Work Experience)	36994	healthcare.

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Mass Production II 39052 materials (wood, plastic, metal, composites).			knowledge and skills required for fabricating products using a variety of
	Mass Production II	39052	materials (wood, plastic, metal, composites).

Provides students with the knowledge and skills to interpret the variety of drawings used in maintenance occupations including: blueprints, and other trade prints. A comprehensive course designed to instruct students in the basic application level course designed to provide students with advanced machining skills and further opportunities to apply those skills. An application level course designed to provide students with advanced machining skills and further opportunities to apply those skills. A comprehensive course designed to provide students with howledge and skills in basic welding theories and terminology, to perform Oxyfuel and Arc Welding activities in the F & H positions, and to perform Oxyfuel and Arc Welding activities in the F & H positions, and to perform Oxyfuel and Arc Welding activities in the F & H positions, and to perform Oxyfuel and Arc Welding activities in the F & H positions, and to perform Oxyfuel and Arc Welding Processes II Production Welding Processes II 39207 Non-destructive testing activities. An application lever course designed to instruct students in the knowledge and skills needed for solving fabrication problems, to weld production Welding Processes II 39208 joint in the V & OH positions, and perform Plasma cutting. Provides students with advanced knowledge and skills in operating, provides students with the opportunity to learn practical care maintenance skills. They will attain basic skills and knowledge needed to own and maintain a vehicle. The students will learn what to consider when buying a car, shopping for car insurance, acquiring a title, etc. This course gives students an overview of transportation industry skills and career opportunities, as well as the education required to acquire theories and information needed to develop an understanding of A technical level course designed to provide students with basic theories and information needed to develop an understanding of A technical fight truck vehicles. A comprehensive application level course designed to			Provides students with the knowledge and skills to interpret the variety
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General Service II 40152 light truck service.			, , , , , , , , , , , , , , , , , , ,
	General Service II	40152	light truck service.

	An advanced, comprehensive, application level course designed to
	build upon skills in the General Service II course and to provide
40154	additional opportunities for work-based experience.
	A comprehensive, technical level course designed to provide students
	with the basic theories, equipment, and skills needed to inspect and
	service electrical systems.
	A comprehensive, application level course designed to provide
	students with the basic skills needed to inspect, service and repair
40202	electrical circuits and devices.
	A comprehensive, technical level course designed to provide students
	with the basic theories, equipment, and skills needed to inspect and
	service braking systems.
	A comprehensive, application level course designed to provide
	students with the basic skills needed to inspect, service and repair
40206	braking systems to industry standards.
	A comprehensive, technical level course designed to provide students
	with the basic theories and skills needed to inspect and service drive
	train components.
	A technical level course designed to provide students with basic
	theories and information needed to develop an understanding of
40210	alternative power used in transportation.
	A comprehensive, technical level course designed to instruct students
	in the knowledge and skills common to all small engine operations and
40212	repair.
	A comprehensive, application level course designed to provide
	students with advanced knowledge and skills common to all small
40214	engine operations and repair. A comprehensive technical level covers the tools, skills, and techniques
	required to perform base engine mechanical repair and testing. This
40216	includes engine removal, installation, and maintenance.
	A comprehensive, technical level course designed to provide students
	with the basic skills needed to inspect, understand and diagnose engine
	control systems.
	A comprehensive, application level course designed to provide
	students with the skills needed to inspect, service and repair engine
40222	control systems.
	40200 40202 40204 40208 40210 40212 40214 40216

		A comprenensive, technical level course designed to provide students
		with the basic theories, equipment, and skills needed to inspect and
Steering & Suspension	40224	service steering and suspension systems.
		A comprehensive, application level course designed to provide
		students with the advanced skills needed to inspect, service and repair
Advanced Steering/Suspension	40226	steering and suspension systems.
		A comprehensive technical level course designed to provide students
		with the basic and advanced theory of operation, service and repair of
		the air-conditioning, heating and vehicle cooling system as it relates to
Mobile HVAC	40228	the mobile climate control system.
		An advanced research and application course covering specific topics in
		transportation. Should include opportunities for IHT, OJT and/ or
Research & Emerging Trends in Transportation	40250	Internships.
		An advanced research and application course covering specific topics in
		transportation. The course should include opportunities for IHT, OJT
		and/ or Internships. In relationship to the half credit version, the full
		credit version requires more in-depth research opportunities, the
		creation of a portfolio documentation of internship activities and the
Research & Emerging Trends in Transportation	40251	completion of the OSHA 10 Safety Certification course.
		A comprehensive, technical level course designed to instruct students
Auto Collision I	40300	in the knowledge and skills common to the Collision Industry.
		A comprehensive, application level course designed to provide
		students with the advanced skills needed to perform diagnosis and
Auto collision II	40302	repair in the Collision Industry.
		A comprehensive, technical level course designed to instruct students
Auto Refinishing I	40310	in the knowledge and skills common to the Auto Refinishing Industry.
		A comprehensive, application level course designed to provide
		students with the skills needed to perform diagnosis and repair in the
Auto Refinishing II	40312	Refinishing Industry.
		A comprehensive, application level course designed to provide
		students with the skills needed to perform diagnosis and repair in the
Custom Refinishing & Applications A	40314	Custom Refinishing Industry.
		An advanced application level course offering students further
Custom Refinishing & Applications B	40315	opportunities for creative applications in custom refinishing.

		This course will introduce students to the knowledge and skills of
		serving the general public in a variety of occupations. Topics will
		include identifying personal strengths and weaknesses and setting
		career goals, leadership, teamwork and problem solving, analyzing
		leadership roles and identifying leadership opportunities within the
Intro to Government and Public Administration 43		school.
		This course will look at meeting the needs of the U.S. culture through
		positions within Government and Public Administration. Topics will
		include the role of government in providing services for the US
		population, the impact of the US on other nations as well as the impact
		of other nations on the US, and the professional traits required of those
		in this field. In addition, it will look at the problem solving and critical
Government and Public Administration Fundamentals 43		thinking processes, and leadership and teamwork practices.
		This course will build skills needed to communicate messages to the
		public as it relates to topics of concern. Topics will include conflict
		awareness, reliability of sources, creating publicity materials, public
Media and Public Relations 43	3115	relations campaigns and working with media. This course applies the skills needed in government and public
		administration professions. It includes the application of leadership and
		teamwork within the classroom or as an intern at a work location.
		Topics may include working with budgets, negotiation/communication
		with co-workers, developing proposals, making oral presentations and
Governance Applications 43		making informed decisions to meet an identified need.
		An introductory course designed to provide students with knowledge of
		occupations available in the Law, Public Safety and Security fields and
		introduce them to the legal system, professional conduct, safety, and
Intro to LPSS 44		types of crime.
		An introductory level course designed to provide students with
		knowledge of the history of modern emergency medical services in the
		United States and how those services have progressed and changed
History of Emergency Medical Services 44		over time.
		A technical level course designed to provide students with the
		knowledge needed to perform the written and other communication
IT in Service Professions 44	4010	duties associated with careers in LPSS.

		A technical level course designed to instruct students in the
		requirements and skills to obtain national certifications for First Aid,
First Aid/CPR/EMR	44050	CPR and Emergency Medical Responder.
		A technical level course designed to provide students with basic
		knowledge and skills needed to pursue postsecondary training the
EMT-Bridge	44055	Emergency Medical field (ie., EMT, Paramedic).
-		A technical level course designed to provide skills and knowledge
		necessary to sit for the EMT certification test. Course is taught by a
		certified EMT instructor and follows competencies set forth by the
EMT	44060	certifying agency.
		The first of two courses designed to provide students with the
Fire Science I	44100	knowledge and skills to obtain a Fire Fighter I national certification.
		The second of two courses designed to provide students with the
Fire Science II	44101	knowledge and skills to obtain a Fire Fighter I national certification.
		The first of two courses designed to provide students with the skills and
		knowledge necessary to obtain entrance to the Law Enforcement or
Law Enforcement I	44200	Highway patrol Academy.
		The second of two courses designed to provide students with the skills
		and knowledge necessary to obtain entrance to the Law Enforcement
Law Enforcement II	44201	or Highway Patrol Academy.
		An application level course designed to provide students with the skills
		and knowledge needed to obtain national certification as a CPO
Certified Protection Officer	44210	(Security Guard).
		An application level course designed to provide students with the skills
		and knowledge needed to obtain entry-level employment as a
Corrections Officer	44215	corrections officer in the local, state and/or federal detention system.
		Introduction to Human Services B offers a look into the many
		occupations (paid and unpaid) linked to providing for the basic needs of
		children, individuals and families. Occupations will include nutrition
		educator, child care provider, social worker, foster parent, credit
		counselor, geriatric care provider, senior citizen care director, food
		service provider, restaurant manager, culinary artists, interior/textile
Introduction to Family and Consumer Science	45001	designer, event planner and family and consumer sciences teacher.

		Human Growth and Development A provide students with knowledge
		about the physical, mental, emotional, and social growth and
		development of humans from conception to old age, with a special
		emphasis on birth through school age. Course content will provide an
		overview of life stages, with a strong tie to prenatal and birth processes;
		fundamentals of children's emotional and physical development; and
Human Growth and Development A		the appropriate care of children.
		Human Growth and Development B provide students with knowledge
		about the physical, mental, emotional, and social growth and
	 	development of humans from conception to old age and information on
		the occupations associated with meeting the needs of people. In
		addition, this course helps students discover how individuals respond to
		the various stages of the life span, with a strong tie to teen years,
Human Growth and Development B	45014	adulthood and later years.