

Kansas Board of Regents Precollege Curriculum Courses Approved for University Admissions

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<u>Kansas</u> <u>Board of Regents</u> Precollege Curriculum Courses Proposed for University Admissions Adopted April 6, 2011

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.

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ELECTIVE Course Title	e	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
Exploration of Hospitality Careers	16001	identify a focus for 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 the various careers available in
Exploration of Restaurant, Food and Beverage Services	16051	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
Restaurant, Food and Beverage Services—Comprehensive	16052	systems, 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
Food Service	16053	service 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
	100-	and utilization of nutrients. Course content may also cover additives,
Nutrition and Food Preparation	16054	contaminants, foodborne 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
Restaurant Management and Operations	16055	other topics related to managing and 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
Culinary Art Specialty	16056	emphasize skills specific to the type of culinary art being studied.
		These courses examine specific topics related to Restaurant, Food, and Beverage
		Services, such as catering, rather than provide a general study of the industry or
Particular Topics in Restaurant, Food and Beverage Services	16057	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 application, to explore a topic in greater detail, or to develop more
Restaurant, Food and Beverage Services—Independent 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 available in the lodging
Exploration of Lodging Careers	16101	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 topics related to support services within
Lodging—Comprehensive	16102	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
Institutional Maintenance	16103	other types of ongoing maintenance.
		These courses examine specific topics in lodging such as convention planning or
		hotel management rather than provide a general study of the industry or of
Particular Topics in Lodging	16104	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
Lodging—Independent Study	16147	detail, or to develop more 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 marketing, and the various
Introduction to Travel and Tourism	16151	careers available in travel and tourism.
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		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
Travel and Tourism—Comprehensive	16152	convention planning.
Morld Travel and Tourism	16152	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
World Travel and Tourism	16153	international travel; and 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 attractions and environmental and
Eco-tourism	16154	ecological principles.
		These courses examine specific topics in travel and tourism such as the airline reservation and ticketing system rather than provide a general study of the
Particular Topics in Travel and Tourism	16155	industry or of specific topics already described.
Travel and Tourism—Independent Study	16197	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 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;
Exploration of Recreation, Amusement and Attractions	16201	introduction to marketing; and the various 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
Recreation, Amusement and Attractions—Comprehensive	16202	audiences, agendas, and public relations.
Particular Topics in Recreation, Amusement and Attractions	16203	These courses examine specific topics in recreation, amusement, and attractions such as local opportunities rather than provide a general 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 application, to explore a topic in greater detail, or to develop more
Recreation, Amusement and Attractions—Independent 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
Hospitality and Tourism—Independent Study	16997	explore a topic in greater detail, 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
Construction Careers Exploration	17001	environment, rewards, and career paths within construction-related fields.
		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 opportunities and training requirements) regarding construction-
		related occupations 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
Construction—Comprehensive	17002	structures, installing utilities, finishing surfaces, and providing maintenance.
		Carpentry courses provide information related to the building of wooden
		structures, enabling students to gain an understanding of wood grades and
		construction methods and to learn skills such as laying sills and joists; erecting
		sills and rafters; applying sheathing, siding, and shingles; setting door jambs; and
		hanging doors. Carpentry courses may teach skills for rough construction, finish
		work, or both. Students learn to read blueprints, draft, use tools and machines
		properly and safely, erect buildings from construction lumber, perform finish
		work inside of buildings, and do limited cabinet work. Carpentry courses may also
Carpentry	17003	include career exploration, good work habits, and employability skills.

Framing Carpentry	17004	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, and 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.
Particular Topics in Carpentry	17005	These courses cover specific aspects of building construction or carpentry. All coursework focuses upon a particular skill or set of skills related to one subtopic, such as floor framing, wall and partition framing, interior finishing, or exterior finishing.
Woodworking	17006	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 proposed projects.
Cabinetmaking	17007	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 and how to apply spray finishes.
	2.007	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
Masonry	17008	footings and how to establish grades using a surveying transit.

Building Maintenance	17009	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 systems.
Building Wainternance	17003	Home Maintenance courses provide students with knowledge and skills related
Home Maintenance	17010	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 finishing, and small appliance repair.
Wall Finishings	17011	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 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, tufting, and buttoning; and wood
Upholstering	17012	refinishing.
Commercial Construction Technology	17014	A course to introduce students to the basic skills pertaining to commercial construction.
Commercial Construction Careers	17015	Comprehensive and application courses designed to teach knowledge and skills required to construct commercial buildings
Heavy Highway Construction	17016	Heavy Highway Construction.
. <u>J</u> .		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
General Construction—Independent Study	17047	detail, or to develop more 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,
Air Conditioning	17051	servicing, and 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
Refrigeration	17052	common accessories of 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
Heating	17053	and trouble-shooting techniques.
		Air Conditioning/Refrigeration courses enable students to develop the combined
		skills and knowledge to install, maintain, adjust, and repair both air conditioning
Air Conditioning/Refrigeration	17054	and refrigeration systems.
		In Air Conditioning, Heating, and Refrigeration courses, students learn the basic
		principles of these systems, along with how to identify and safely use
Air Conditioning, Heating, and Refrigeration	17055	tools/equipment used in the trade.
<i>5, 5,</i>		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
Heating, Ventilation, and Air Conditioning	17056	maintaining climate 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 soldering techniques, and so
Particular Topics in HVACR	17057	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, plastic) using various methods
Plumbing	17058	(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 compressors; and mechanical and
Plumbing and Heating	17059	pneumatic testing equipment.
		Course designed to teach basic skills required for installation of HVAC and
HVAC & Plumbing Systems	17060	plumbing systems.
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Pine Cutton Tools and a	47064	Course design to teach exposure to and training in the theories, equipment and
Pipefitting Technology	17061	skills needed to perform pipefitting techniques.
		A course to introduce students to the basic skills necessary for occupations in
Skilled Mechanical Crafts	17062	skilled mechanical crafts (plumbing, HVAC, pipefitting, 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 students to expand their expertise in a
		particular application, to explore a topic in greater detail, or to develop more
Air Conditioning, Heating and Plumbing—Independent Study	17097	advanced skills.
		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
Exploration of Electricity/Electronics	17101	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.
Residential Wiring	17103	Maintenance and repair skills are 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,
Industrial Electricity	17104	emergency generator systems, and other industrial applications.
·		These courses provide students with specialized knowledge and help them
		develop skills in particular topics concerning the nature, behavior, and
Particular Topics in Electricity	17105	application of electrical current.
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		Electronics—Comprehensive courses provide a survey of the theory, terminology,
		equipment, and practical experience in the skills needed for careers in the
		electronic field as well as typically cover the theory of electricity. Course topics
		may include AC, DC, analog, and integrated circuitry and solid state and digital
		devices, amplifiers, and semiconductors. Skills covered may involve the repair,
		maintenance, and building of electronic equipment such as radios, television sets,
Electronics—Comprehensive	17106	and industrial equipment.
,		Individual courses in this category offer specialized training in topics related to
		electronics such as diodes, transistors, digital techniques, solid-state devices,
Particular Topics in Electronics	17107	analog circuits, and microprocessors.
·		Electricity/Electronics—General courses teach fundamental concepts of
		electricity and electronics, including safety procedures, and may introduce
		students to the available occupations in electrical and electronic industries.
		Topics covered typically include components of circuits; reading schematics and
		diagrams; electricity and electronics as sources of energy; signal transmission;
		and using equipment common to these occupations, such as ammeters,
		voltmeters, capacitor checkers, transistor testers, signal generators, and
Electricity/Electronics—General	17108	ohmmeters.
		These courses provide instruction in the theory and skills needed in fields
		involving electricity and electronics and related fields that focus on electrical
Particular Topics in Electricity/Electronics	17109	wiring or electronic signals.
		In these courses, analog and digital circuits and systems are compared. Topics
		covered include binary and continuously variable currents and signals (typically in
		the context of voltage), waveforms, signal loss and distortion, modulation, and
		signal processing. These courses may also introduce other media, such as sound
Analog and Digital Circuits	17110	waves and liquids.
	=	Analog Circuit courses emphasize currents and voltages that have continuously
		variable signals and, due to that emphasis, concentrate on signal modulation,
		transmission and reception, signal loss and distortion, and waveforms. These
Analog Circuits	17111	courses may also address conversion techniques.
	=	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 courses may also address
Digital Circuits	17112	conversion techniques.
3 2 25	=	Course design to teach basic skills required for installation of electrical and
Electrical & Security Systems	17113	security systems.

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		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
Electricity/Electronics—Independent Study	17147	explore a topic in greater detail, or to develop 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,
Architecture and Construction—Independent study	17997	to explore a topic in greater detail, 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
Introduction to Agriculture and Natural Resources	18001	developing 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
Agriculture—Comprehensive	18002	chemical and soil science, ecology, 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 soil science, forestry,
Agriculture and Natural Resources—Comprehensive	18003	agricultural marketing, and veterinary science.
		This is an introductory course that allows the students to explore the floral
Introduction to Floral Design	18004	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
Ornamental Horticulture	18053	usually concentrate on 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,
Turf and Landscape Management	18054	parks, open space, and similar environments.
		These courses examine specific topics related to Plant Systems, such as floral
		design, hydroponics, or landscaping, rather than provide a general study of plant
Particular Topics in Plant Systems	18056	systems or horticulture.
		Plant Identification and floral design are necessary knowledge skills along with
		the selection of greenhouse plants and management of greenhouses for
Floriculture and Greenhouse Management	18057	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 opportunities to design public and
Landscape Science I	18059	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.
Principlies of Agriscience/Plant Science	18060	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
Landscape Science II	18061	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
Turf and Landscape	18062	in this course.
		Prepares students for the floral design business with a basic floral ID and
Floriculture	18063	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
Floriculture and Landscape Design	18064	internal and external areas.
		Course that prepares students to maintain indoor and outdoor environments.
		Includes instruction in plant science, climate, irrigation, nutrition, irrigation, and
Landscape Design	18065	turf management.
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		Course that prepare students for the flower catering services with instruction in
Floral Design	18066	purchasing, storage, delivery, floral design and arranging 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
Nursey and Landscape Design	18067	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, watering, fertilizing, and
Greenhouse Production and Management	18068	salesmanship will be developed.
		Allows student to develop plans for selection of various flowers, greens and
Floral Design II	18069	arrangement for floral occasions followed up by marketing and cost 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
Plant Systems—Independent Study	18097	detail, or to develop more 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
Small Animal Care	18102	study. Course topics may include kennel operations 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
Large Animal Care	18103	study. Course topics may include product processing and marketing.
		Equine Science courses focus on the care and management of horses. Animal
		nutrition, health, behavior, reproduction and breeding, anatomy and physiology,
Equine Science	18104	facilities, handling and training, and grooming are 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 may also include other areas of study as
Veterinary Science	18105	appropriate.
		These courses examine specific topics related to animal care and management,
		production, or processing, such as equine training or animal waste management,
		rather than provide a general study of animal care and the systems related to
Particular Topics in Animal Systems	18106	their growth and management.

		Courses impart information about the causes, diagnosis, & treatment of diseases
		& injuries of animals, typically emphasizing domestic and farm animals. Topics
		focus on anatomy & physiology, nutrition, behavior, & reproduction, but may
Advanced Animal Science or Animal Science II	18107	also include other areas of study as appropriate
	10107	Overview of the animal industry. Anatomical and Physiological Structures of
		animals, Naming of animals, nutrition, reproduction, genetics, animal health,
Principles of Agriscience/Animal Science	18108	selection, marketing and animal products.
g. as a second		Courses in Animal Systems—Independent Study, often conducted with
		instructors as mentors, enable students to explore topics of interest related to
		animal systems. Independent Study courses may serve as an opportunity for
		students to expand their expertise in a particular application, to explore a topic in
Animal Systems—Independent Study	18147	greater detail, or to develop more advanced skills.
		Agribusiness Management courses provide students with the information and
		skills necessary for success in agribusiness and in operating entrepreneurial
		ventures in the agricultural industry. These courses may cover topics such as
		economic principles, budgeting, risk management, finance, business law,
		marketing and promotion strategies, insurance, and resource management.
		Other possible topics include developing a business plan, employee/employer
		relations, problem-solving and decisionmaking, commodities, and building
		leadership skills. These courses may also incorporate a survey of the careers
Agribusiness Management	18201	within the agricultural industry.
		Agricultural Entrepreneurship courses focus on the personal skills necessary for
		success in entrepreneurial ventures in the agricultural industry. Topics include
		setting goals, assessing and solving problems, evaluating financial progress and
		success, business planning, information management and evaluation, and
Agricultural Entrepreneurship	18202	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
Agricultural Leadership	18203	styles, and ensuring successful completion of group activities.
		These courses examine specific topics related to Agribusiness, such as
		international agriculture or commodities, rather than provide a general study of
Particular Topics in Agribusiness	18204	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
Ag Communications	18205	completion of group activities.

		Allows students to prepare, conduct and evaluate science based projects as they
Research in Agriculture	18206	relate to science in agriculture in the classroom, shop 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
Agribusiness—Independent Study	18247	to develop more 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 resource management, and farm
Agricultural Production	18301	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 processing or may specialize in particular types of
Agricultural Processing	18302	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
Plant Processing	18303	specific plant 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
Animal Processing	18304	products, such as meat, leather, 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, and product research and
Food Product Processing	18305	development.

Aquaculture	18306	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 and management, and business practices.
Agriculture and Society	18307	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 discussed.
Particular Topics in Agricultural Production/Processing	18309	These courses examine specific topics related to producing and processing agricultural products (such as meat cutting) rather than provide a general study of production or processing.
Food Science II	18310	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 hands on laboratory experiences.
Advanced Plant and Animal Science	18310	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 this class.
Agricultural Production and Processing—Independent Study	18347	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 students to expand their expertise in a particular application, to explore 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 farm operations; a study of electricity and power
Agriculture Mechanics/Equipment/Structures	18401	principles; and safety procedures.

	Agriculture Mechanics and Equipment courses provide students with the
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	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, hydraulic, and
griculture Mechanics and Equipment 184	,
	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
griculture Structures 184	3 safe operation of tools and machines.
	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;
griculture Welding 184	an introduction or review of electricity and power; and safety procedures.
	These courses examine specific topics related to agricultural mechanics and
	construction, such as specific vehicles or structures, rather than provide a general
articular Topics in Agricultural Mechanics and Construction 184	os 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 and TIG welding that could
dvanced Agricultural Welding 184	77 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
gricultural Fabrication 184	09 machines

		Common manifestation and anti-state the common of the state of the sta
		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. Applications may include lawn mowers, tractors,
Small Gas Engines	18410	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
Agricultural Power	18411	opportunities within the field of mechanics and/or transportation.
		Course provide instruction in layout and design of metal skills, soldering, brazing
Agricultural Metals	18412	and other cold metal work.
7,51 carcara metals	10112	Course provides students the opportunity to explore plastics in Agriculture and
Agricultural Plastics	18413	how plastics are used in the Ag Industry.
7.6 Teatrain Tusties	10413	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 expand their expertise in a
A suitable wall NA sales arises and Constitute the sales and sales to Charles	10447	particular application, to explore a topic in greater detail, or to develop more
Agricultural Mechanics and Construction—Independent Study	18447	advanced skills.
		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
Wildlife Management	18501	plant or animal populations.
		Forestry courses provide students with the information and experience 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, government regulations, environmental stewardship, and recreational use
Forestry	18502	of forests.
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		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
Forester Homesting	10502	
Forestry Harvesting	18503	management; and safety 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 management, wildlife preservation, and human
Natural Resources Management	18504	outdoor recreation.
		These courses examine specific topics related to natural resources, such as urban
		forestry or hunter education, rather than provide a general study of natural
Particular Topics in Natural Resources	18505	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
Environmental Resouces and Wildlife	18506	preservation, and human outdoor recreation.
		Course will cover the modern sources of energy that are used in agriculture
Energy Resources in Agriculture	18507	related to wind, ethanol, and Biodiesel fuels.
Life by Nesources III Agriculture	10307	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
Natural Resources—Independent Study	18547	greater detail, or to develop more advanced skills.
Natural Resources—Independent Study	16547	
		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 students to expand their expertise in a
		particular application, to explore a topic in greater detail, or to develop more
Agriculture, Food, and Natural Resources—Independent Study	18997	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
Human Services Career Exploration	19001	upon the careers being 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
Child Care	19051	childhood diseases, abuse, and neglect; and first aid/emergency 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
Child Development	19052	appropriate care of infants, 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 field, and may also offer the opportunity to
Elder Care	19053	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; and techniques for managing a center or working in others'
Caregiving Service	19054	homes.
		These courses examine specific topics related to child and elder care, such as
		regulations of the industry or caring for people with special needs, rather than
Particular Topics in Child and Elder Care	19055	providing a general study of child and elder care.
Tarticular Topics in clinia and Elaci Care	15055	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
Child and Elder Care—Independent Study	19097	greater detail, or to develop more advanced skills.
Cilia and Liuer Care—independent Study	15037	Breater detail, or to develop 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
Teaching Profession	19151	strategies, and various career 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
Educational Methodology	19152	questioning skills, classroom 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
Early Childhood Education	19153	legal requirements for teaching young children.
		These courses examine specific topics in education other than those already
		described, such as management of school-age children, rather than providing a
Particular Topics in Education	19154	general study of the teaching profession.
Tarticalar ropies in Education	1313.	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
Teaching as a Career	19155	work experience 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
Education—Independent Study	19197	to develop more 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
Clothing and Textiles	19201	and/or garments; and career opportunities in the garment or textile industry.

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 and laundering techniques, identifying fabrics and the optimal cleaning agents and processes, instruction in altering and repairing garments, and the safe use of the equipment, tools, and agents. Apparel Construction construction construction construction constructs 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 peop farment. Apparel Construction 19203 knowledge in a particular peop farment. 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 variety include upholstery, dry cleaning, commercial sewing, and talioring. 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, text-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 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 equipment, interior decorating principles, and employability skills. These courses exa			Clothing/Textile Maintenance courses provide students with the knowledge and
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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 softer specialized knowledge in a particular type 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, dry cleaning, commercial sewing, and tailoring. Apparel and Textile Services 19204 Apparel and Textile Services 19204 Apparel and Textile Services may include upholstery, dry cleaning, commercial sewing, and tailoring. Apparel and decorating home environments. While exploring design principles, personal needs and style, and decision-making, students may also explore the following topics: or, 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 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 equipment, interior decorating principles, and employability skills. These courses examine specific topics in apparel and furnishings other than those already described, such as tailoring or shoe repair, rather 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			, , ,
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			apparel, textiles, and furnishings. Independent Study courses may serve as an
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	Apparel and Furnishings—Independent Study	19247	explore a topic in greater detail, 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
Human Services—Independent Study	19997	greater detail, or to develop 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,
Exploration of Transportation, Distribution and Logistics	20001	specific course topics 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
Truck and Bus Driving	20051	loads, and expectations of driving 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
Heavy Equipment Operation	20052	also include light maintenance principles 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
Aviation	20053	airport operations and services, and 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
Boat Operation	20054	maintenance, commercial fishing, firefighting aboard ship, and CPR.
		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 particular application, to explore a topic in greater
Operation—Independent Study	20097	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
Energy/Power	20101	mechanical or 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 opportunities within the field of mechanics and/or
Power and Mechanics	20102	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
Introduction to Automobiles	20103	also cover career opportunities in 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
Automotive Mechanics—Comprehensive	20104	management and 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 and repair of automobile
Particular Topics in Automotive Mechanics	20105	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
Automotive Service	20106	relations, sales techniques, and service 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
Diesel Mechanics—Comprehensive	20107	also cover 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
Particular Topics in Diesel Mechanics	20108	covered in specific detail in this type of course.
		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,
Small Vehicle Mechanics	20109	employability skills, 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
Small Engine Mechanics	20110	lawn 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
Marine Mechanics	20111	employability skills, as well as 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
Heavy Equipment Mechanics	20112	equipment such as that used in mining, construction, 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
Aircraft Power Plant	20113	systems, along with aircraft instrumentation and safety features.
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		Aircraft Airfrage and Airfrage at the standards of the st
		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 metals and coverings and
Aircraft Airframe	20114	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 occupational safety, employability,
Automotive Detailing and Reconditioning	20115	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
	20116	vehicle surfaces for refinishing; painting; applying body fillers; and estimating
Automotive Body Repair and Refinishing—Comprehensive	20116	material and 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
Particular Tanics in Automative Rody Renair and Refinishing	20117	closely related topics (such as nonstructural part replacement, auto body
Particular Topics in Automotive Body Repair and Refinishing	20117	welding, or plastic repair) receive particular 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
Boat Repair/Refinishing	20118	courses often cover safety, employability skills, and entrepreneurship.
	20110	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 greater detail, or to develop more advanced
Mechanics and Repair—Independent Study	20147	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
Distribution—Comprehensive	20151	material, transportation of 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
Warehouse Operations	20152	security, and appropriate storage techniques.
Warehouse operations	20132	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
Distribution and Logistics—Independent Study	20197	explore a topic in greater detail, 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 students to expand their expertise in a
		particular application, to explore a topic in greater detail, or to develop more
Transportation, Distribution and Logistics—Independent Study	20997	advanced skills.
		Pre-Engineering Technology courses integrate technology-oriented applications
		of mathematics and science into pre-engineering activities for students. Course
		topics may include material sciences, technology processes, enterprises, and
Pre-Engineering Technology	21001	career opportunities.
		Engineering Applications courses provide students with an overview of the
		practical uses of a variety of engineering applications. Topics covered usually
		include hydraulics, pneumatics, computer interfacing, robotics, computer-aided
Engineering Applications	21002	design, computer numerical control, and electronics.
		Engineering Technology courses provide students with the opportunity to focus
		on one or more areas of industrial technology. Students apply technological
		processes to solve real engineering problems; develop the knowledge and skills
		to design, modify, use, and apply technology; and may also design and build
		prototypes and working models. Topics covered in the course include the nature
Engineering Technology	21003	of technology, use of technology, and design processes.
		Principles of Engineering courses provide students with an understanding of the
		engineering/technology field. Students typically explore how engineers use
		various technology systems and manufacturing processes to solve problems; they
		may also gain an appreciation of the social and political consequences of
Principles of Engineering	21004	technological change.

		Engineering—Comprehensive courses introduce students to and expand their
		knowledge of major engineering concepts such as modeling, systems, design,
		optimization, technology-society interaction, and ethics. Particular topics often
		include applied engineering graphic systems, communicating technical
		information, engineering design principles, material science, research and
		development processes, and manufacturing techniques and systems. The courses
		may also cover the opportunities and challenges in various branches of
Engineering—Comprehensive	21005	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
Engineering Design	21006	well as communicate the features of 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 eventually create a working
Engineering Design and Development	21007	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 to the actual
Digital Electronics	21008	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, pneumatics, computer basics, and
Robotics	21009	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
Computer Integrated Manufacturing	21010	of robotics, automated 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 traffic analysis, geologic principles,
Civil Engineering	21011	and urban design.

		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 design, project documentation, and
Civil Engineering and Architecture	21012	presentation.
		These courses examine specific topics in engineering other than those already
Particular Topics in Engineering	21015	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 sustainable
Research in Environmental Science and Engineering	21016	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
Engineering—Independent Study	21047	to develop more 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 systems and their
Technological Literacy	21051	applications and uses.
3 ·· · · · · · · · · · · · · · · · · ·		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,
Technological Processes	21052	explore simulations, or design and build prototypes and working models.
- Comisiogloui i roccisco	21032	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, communication modalities, and
Emerging Technologies	21052	transportation technologies.
Emerging Technologies	21053	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, constructing, testing, and
Technology Innovation and Assessment	21054	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
Aerospace Technology	21055	propulsion systems, aerostatics, and aerodynamics.
Therespace resimology	21000	These courses examine specific topics in technology applications other than
Particular Topics in Technology Applications	21056	those already described.
Tarticular represent resimilarity representations	21030	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
Technology—Independent Study	21097	topic in greater detail, or to develop more advanced skills.
recimology independent study	21037	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 basic skills and the field in general,
		providing students with the opportunity to identify a focus for continued study or
Drafting Careers Exploration	21101	to determine that their interests lie elsewhere.
Draiting Careers Exploration	21101	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,
Drafting Conoral	21102	perspective, and so on). Computer-aided drafting (CAD) systems (if available) are
Drafting—General	21102	typically introduced and used to fulfill course 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
Drafting—Architectural	21103	presentation drawings. In 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 emphasis on skills needed for typography
Drafting—Civil/Structural	21104	and survey work.
		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
Drafting—Electrical/Electronic	21105	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,
Drafting—Technical/Mechanical	21106	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
CAD Design and Software	21107	to the computer-aided drafting systems available in 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
Blueprint Reading	21108	examples from a wide variety of industrial and technological applications.
		Advanced research and application course that covers specific topics in design &
		pre-construction (drafting/architecture) to include management and "green
Research and Design from Pre-Construction	21109	design" skills.

		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 imagery to build further representation utilizing the
GIS Technology	21111	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
GIS Spatial Application	21112	multidimensional 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 a topic in greater detail, or
Drafting—Independent Study	21147	to develop more advanced skills.
		An advanced level course that provides students with the knowledge and skills
Advanced Drafting/CAD	21150	needed to utilize CAD design 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 de-soldering 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 and Resource Scheduling	21205	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 courses may also incorporate a survey of the careers within technology and engineering industries.
Troject Management and Nesource Schredaling		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,
Materials Science and Engineering	21252	designing, selecting materials, and using appropriate tools and machines.
Engineering and Technology—Independent Study	21997	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 greater detail, or to develop more advanced skills.
Engineering and reenhology independent study	21337	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 financial management; and
Family and Consumer Science—Comprehensive	22201	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
Food and Nutrition	22202	opportunities in the food service industry, their emphasis is not career-related.

Food Science	22203	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 experiments.
Child Development/Parenting	22204	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, and young children.
Clothing/Sewing	22205	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 industry, and craft sewing.
Consumer Economics/Personal Finance	22210	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 may also provide an overview of the American economy.
·		Home Décor 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
Home Décor	22211	personal (rather 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,
Interior Design	22212	followed by this in the second semester.

	I N	Nutrition & Health Science courses focus on biological systems and personal
		nealth topics such as nutrition, stress management, drug/alcohol abuse
		prevention as functions of biological impact on body systems. Key biological
No desirio anno de Maraldo Caisanas		concepts addressed include: homeostasis, metabolism, inheritance of traits,
Nutrition and Health Science 22		eedback systems, and defense against disease.
		Consumer and Personal Finance B, explores the relationship of basic money
		management and consumer decision-making across the lifespan. It includes an
		n-depth look at risk management, use of credit, consumer rights and
	r	esponsibilities, setting goals and impact of the family on personal financial
	d	decision making. How to make wise choices to develop a healthy financial self
	v	vill be a major component of this course as well as an introduction to the
Consumer and Personal Finance B 22	2220 o	occupations related to the field.
	F	amily and Consumer Science—Independent Study courses, often conducted
	v	vith instructors as mentors, enable students to explore topics of interest related
	t	o home- and self-management. Independent Study courses may provide
	s	tudents with an opportunity to expand their expertise in a particular application,
Family and Consumer Science—Independent Study 22	2247 t	o explore a topic in greater detail, or to develop more advanced skills.
	l)	ntroduction to Drawing emphasizes the development of fundamental drawing
	s	kills. Focus will be on the application of art theory, processes and techniques
	t	hat increase the power of observation. Instruction includes the elements and
	р	principles of design as applied in composition through hard copy and/or
Introduction to Drawing 30	0005 e	electronic software.
	2	1st Century Journalism promotes the development of the skill set needed today
	a	and in the future. Topics include an exploration of the role media and the
	С	communications industry has in society, the development of the technical skills
		elated to journalistic writing and interviewing, as well as understand the ethical
21st Century Journalism 30		and legal issues related 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,
		ndustrial design, web design, architecture, interior design and/or fine arts.
		echniques in traditional and digital illustration applications will be explored as
Principles of Illustration 30		directly linked to ever-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 learning composition
Graphic Design Fundamentals 30		echniques 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 preproduction, production and post-production process, as well as explore the
production, production and post-production process, as well as explore the
Audio Video Production Fundamentals 30103 equipment and techniques used to develop a quality audio 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, equipment and tools used in the
Digital Media Technology 30104 industry.
Photo Imaging teaches the technical skills need to produce quality images for us
in a variety of applications. Topics include use of equipment, software and
Photo Imaging 30105 techniques to take, edit and manipulate digital images.
Essentials of Interior and Textile Design introduces students to and expands upo
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
Essentials of Interior and Textile Design 30110 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
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
Interior and Textile Merchandising 30112 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.

		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 embedding audio, video or other content in digital
Digital Media Design and Production	30151	formats.
		Interior and Textile Design Studio provides students with the opportunity to expand knowledge and experiences with 4-dimensional design forms as they relate to human needs. Topics will include the language, materials, and processes used to apply the design elements and principles based upon designers, periods, and styles. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are
		encouraged to develop their own design styles to meet the needs of a client. This
Interior and Textile Design Studio	30160	application course is client driven in the interior, textile or apparel fields.
Applied Business Development	32200	Applied Business Development students will practice skills of planning, organizing, directing and controlling functions of operating a business while assuming the responsibilities and risks involved. Students will develop skills in enterprise development, market analysis and financial preparation. These courses includes classroom activities as well as involving further study of the field and discussion regarding real-world experiences and applications that students encounter in owning and 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
Event Planning and Management	34052	management, quality service and staffing issues.
		Food Technology and Development explores the basics of food production from a science perspective and how the concepts impact 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 or in foods, meaning of terms such as "organic" and "all-natural", and may include students developing and marketing a new food product to meet
Food Technology and Development	34053	an identified need.
Foundations of Lodging	34054	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. housekeeping, check in procedures) as well as the guest cycle.

Technique (A. C. General Skill Specialty (A. C. General Skill specialty 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 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 production, autrition values and product performance as well as the application to grain products. Baking experiences may include veast breads, quick breads, cakes (and cake decoration) and product performance as well as the application to grain products. Baking experiences may include veast breads, quick breads, cakes (and cake decoration) and broad breads dessers, product outcomes using various flours and storage methods. An entrepreneurship experience may be part of this course. Culinary Art - Bakery/Grains 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 as possible using authentic ingredients, procedures and equipment. An entrepreneurship experience may be part of this course. Culinary Art - International specialty 34058 This course builds upon the Baking and Pastry I course by refining and expanding skills of production management. Topics also include analyzing the scientific reactions during production and expanding the skill development to address the finer aspects of the field. This is the second in a sequence of lodging within the business. It will include properly management, guest services, hotel/mot			Culinary Art—General Skill Specialty will focus upon the skills generally
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 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 study of grain production, nutrition values and product performance as well as the application to grain products. Baking experiences may include study of grain production, nutrition values and product performance as well as the application to grain products. Baking experiences 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. 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 as possible using authentic ingerdients, procedures and equipment. An entrepreneurship experience may be part of this course. Culinary Art - International specialty Culinary Art - International special			, , , , , , , , , , , , , , , , , , , ,
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Lodging Management II 34159 service issues (i.e. communication skills, conflict resolution, active listening). This course applies the skills needed in the culinary arts profession. It includes the application of skills within a school-based, community-based experience or work-based internship and will cover an introduction of all aspects of an industry. Students enrolled in this course are expected to have mastered skills in the culinary field so that they are able to apply them in authentic experiences			This is the third in a sequence of lodging courses that expands the understanding
This course applies the skills needed in the culinary arts profession. It includes the application of skills within a school-based, community-based experience or work-based internship and will cover an introduction of all aspects of an industry. Students enrolled in this course are expected to have mastered skills in the culinary field so that they are able to apply them in authentic experiences			of the industry to include the trends, marketing and an in-depth look at customer
the application of skills within a school-based, community-based experience or work-based internship and will cover an introduction of all aspects of an industry. Students enrolled in this course are expected to have mastered skills in the culinary field so that they are able to apply them in authentic experiences	Lodging Management II	34159	service issues (i.e. communication skills, conflict resolution, active listening).
work-based internship and will cover an introduction of all aspects of an industry. Students enrolled in this course are expected to have mastered skills in the culinary field so that they are able to apply them in authentic experiences			This course applies the skills needed in the culinary arts profession. It includes
Students enrolled in this course are expected to have mastered skills in the culinary field so that they are able to apply them in authentic experiences			the application of skills within a school-based, community-based experience or
culinary field so that they are able to apply them in authentic experiences			work-based internship and will cover an introduction of all aspects of an industry.
			Students enrolled in this course are expected to have mastered skills in the
Culinary Applications 34198 following industry standards and regulations. Local prerequisites apply.			culinary field so that they are able to apply them in authentic experiences
	Culinary Applications	34198	following industry standards and regulations. Local prerequisites apply.

	This course is designed to provide an authentic experience within the lodging
	industry. Content will include the analysis, observation and demonstration of
	skills necessary for success. An introduction to all aspects of the industry will be
	included (i.e. management, financial, front office, housekeeping, food service and
34200	guest services).
	This course provides students with an orientation to the health care industry and
	helps refine their health care-related knowledge and skills. Topics covered
	include (but are not limited to) an overview of health care delivery; anatomy and
	physiology; identification of medical equipment and supplies; medical
36002	terminology; hygiene and disease prevention.
	This course provides students with an orientation to the health care industry and
	helps refine their health care-related knowledge and skills. Topics covered
	include (but are not limited to) patient care, including assessment of vital signs,
	body mechanics, and diet; first aid and CPR procedures; laboratory procedures;
36003	and ethical and legal responsibilities.
	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 therapy strategies, household
36053	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
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
36152	interpersonal/communication skills. (This is a 1 credit course.)
	36002 36003 36053

Medical Terminology	36154	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 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	36254	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, Biotechnology). The
Health Science III Classroom/Work Experience	36991	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,
Health Science IV	36992	teacher and employer. The work experience may be paid or unpaid.

		Ctudents are required to retate through a core or from each of the five nothwests
		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
Haalth Calamaa V	26002	course content may include but is not limited to leadership skills and research of
Health Science V	36993	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
Health Science VI (Classroom and Work Experience)	36994	leadership skills and research of personal career interests in healthcare.
		This course provides an opportunity for students to participate in both the
		classroom and in two 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 year 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 healthcare. Students enrolled in this
		course will be required to complete additional two-week rotations in specialized
		health science pathways leading to an industry recognized certification (EMT,
Health Science VII	36995	CNA, Pharmacy Tech, Phlebotomy, etc.).
		An introductory Level course designed to instruct students in the basic skills
		necessary to all occupations in the Construction, Manufacturing and
Introduction to Industrial Technology	38001	Transportation areas.

		An advanced comprehensive course designed to instruct students in skills
Residential Carpentry II	38002	pertaining to rough construction and finish work.
. ,		An advanced level application course designed to provide students with
		experience in constructing cases, cabinets, counters, furniture and interior
Cabinet & Furniture Design II	38007	woodwork.
		An advanced level application course designed to instruct students in the design
Commercial Construction Careers II	38015	and management areas of commercial construction.
		This is an advanced level application course covering specific research-based
Advanced Studies	38050	topics in architectural design.
		Provides students with the knowledge and skills needed to program and operate
Automated Systems	39010	robotic equipment in manufacturing occupations.
		An application level course designed to instruct students in the knowledge and
		skills required for fabricating products using a variety of materials (wood, plastic,
Mass Production II	39052	metal, composites).
		Provides students with the knowledge and skills to interpret the variety of
		drawings used in production occupations including multi-view drawings,
Advanced Production Blueprint Reading	39108	computer models and dimensioning.
		Provides students with the knowledge and skills to interpret the variety of
		drawings used in maintenance occupations including: blueprints, schematics,
Maintenance Blueprint Reading	39109	flow diagrams, and other trade prints.
		A comprehensive course designed to instruct students in the basic theories,
Machine Tool Technology 1a	39203	equipment and skills needed to perform machining activities.
		An application level course designed to provide students with advanced
Machine Tool Technology II	39204	machining skills and further opportunities to apply those skills.
		A comprehensive course designed to provide students with knowledge and skills
		in basic welding theories and terminology, to perform Oxy-fuel and Arc Welding
Production Welding Processes I	39207	activities in the F & H positions, and to perform Non-destructive testing activities.
		An application level course designed to instruct students in the knowledge and
		skills needed for solving fabrication problems, to weld joints in the V & OH
Production Welding Processes II	39208	positions, and perform Plasma cutting.
		Provides students with advanced knowledge and skills in operating, maintaining
Hydraulics & Pneumatics	39302	and troubleshooting hydraulic & pneumatic systems.
		Provides students with the opportunity to learn practical car 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
Automotive Information	40050	for car insurance, acquiring a title, etc.
		This course gives students an overview of transportation industry skills and
Introduction to Transportation	40100	career opportunities, as well as the education required to acquire each career.

		A technical level course designed to provide students with basic theories and
		information needed to develop an understanding of automotive and light truck
General Service I	40150	vehicles.
		A Comprehensive, application level course designed to provide students with
		knowledge in the theory of operation, the equipment and the skills necessary for
General Service II	40152	employment in the field of automotive and light truck service.
		An advanced, comprehensive, application level course designed to build upon
		skills in the General Service II course and to provide additional opportunities for
General Service III	40154	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
Fundamentals of Electronic/Electrical Systems	40200	systems.
		A comprehensive, application level course designed to provide students with the
Advanced Electronic/Electrical Systems	40202	basic skills needed to inspect, service and repair 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
Brakes	40204	systems.
		A comprehensive, application level course designed to provide students with the
		basic skills needed to inspect, service and repair braking systems to industry
Advanced Brakes	40206	standards.
		A comprehensive, technical level course designed to provide students with the
Drive Train Technology	40208	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 alternative power used in
Alternative Power	40210	transportation.
		A comprehensive, technical level course designed to instruct students in the
Small Gas Engines & Powertrains	40212	knowledge and skills common to all small engine operations and repair.
		A comprehensive, application level course designed to provide students with
		advanced knowledge and skills common to all small engine operations and
Advanced Small Engines & Powertrains	40214	repair.
		A comprehensive technical level covers the tools, skills, and techniques required
		to perform base engine mechanical repair and testing. This includes engine
Engine mechanical Repair-Gas &/or Diesel	40216	removal, installation, and maintenance.
		A comprehensive, technical level course designed to provide students with the
Engine Performance I	40220	basic skills needed to inspect, understand and diagnose engine control systems.
_		A comprehensive, application level course designed to provide students with the
Engine Performance II	40222	skills needed to inspect, service and repair engine control systems.

		A comprehensive, technical level course designed to provide students with the basic theories, equipment, and skills needed to inspect and service steering and
Steering & Suspension	40224	suspension systems.
		A comprehensive, application level course designed to provide students with the
		advanced skills needed to inspect, service and repair steering and suspension
Advanced Steering/Suspension	40226	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 the mobile
Mobile HVAC	40228	climate control system.
		An advanced research and application course covering specific topics in
Research & Emerging Trends in Transportation	40250	transportation. Should include opportunities for IHT, OJT and/ or 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 completion of the OSHA 10 Safety
Research & Emerging Trends in Transportation	40251	Certification course.
		A comprehensive, technical level course designed to instruct students in the
Auto Collision I	40300	knowledge and skills common to the Collision Industry.
		A comprehensive, application level course designed to provide students with the
Auto collision II	40302	advanced skills needed to perform diagnosis and repair in the Collision Industry.
		A comprehensive, technical level course designed to instruct students in the
Auto Refinishing I	40310	knowledge and skills common to the Auto Refinishing Industry.
		A comprehensive, application level course designed to provide students with the
Auto Refinishing II	40312	skills needed to perform diagnosis and repair in the Refinishing Industry.
		A comprehensive, application level course designed to provide students with the
Custom Refinishing & Applications A	40314	skills needed to perform diagnosis and repair in the Custom Refinishing Industry.
		An advanced application level course offering students further opportunities for
Custom Refinishing & Applications B	40315	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
Intro to Government and Public Administration	43001	opportunities within the school.

	I	
		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 thinking processes, and leadership and teamwork
Government and Public Administration Fundamentals	43105	practices.
Media and Public Relations	43115	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 relations campaigns and working with media.
Governance Applications	43250	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 making informed decisions to meet an identified need.
Intro to LPSS	44001	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 types of crime.
History of Emergency Medical Services	44005	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 over time.
IT in Service Professions	44010	A technical level course designed to provide students with the knowledge needed to perform the written and other communication duties associated with careers in LPSS.
First Aid/CPR/EMR	44050	A technical level course designed to instruct students in the requirements and skills to obtain national certifications for First Aid, CPR and Emergency Medical Responder.
EMT-Bridge	44055	A technical level course designed to provide students with basic knowledge and skills needed to pursue postsecondary training the Emergency Medical field (ie., EMT, Paramedic).
EMT	44060	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 certifying agency.
Fire Science I	44100	The first of two courses designed to provide students with the knowledge and skills to obtain a Fire Fighter I national certification.
Fire Science II	44101	The second of two courses designed to provide students with the 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 Highway
Law Enforcement I	44200	patrol Academy.
		The second of two courses designed to provide students with the skills and
		knowledge necessary to obtain entrance to the Law Enforcement or Highway
Law Enforcement II	44201	Patrol Academy.
		An application level course designed to provide students with the skills and
Certified Protection Officer	44210	knowledge needed to obtain national certification as a CPO (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 in
Corrections Officer	44215	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 designer, event planner and family and consumer sciences
Introduction to Family and Consumer Science	45001	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
Human Growth and Development A	45004	development; and 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
Human Growth and Development B	45014	teen years, adulthood and later years.