

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.

	Course Code	
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Elective Course Title	ē	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
5 deserves of Heavitally Conserve	4.6004	students to the general field of hospitality, providing an opportunity to identify a
Exploration of Hospitality Careers	16001	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
Exploration of Restaurant, Food and		beverage services, introduction to marketing, and the various careers available in
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-
Restaurant, Food and Beverage Services—		the-house" experiences, and may therefore also cover reservation systems,
Comprehensive	16052	customer service, and restaurant/business management.
		Food Service courses provide students with 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, safety, sanitation, management, production,
		service skills, menu planning, the operation of institutional food establishments
Food Service	16053	and the careers available in the food service industry.
		Nutrition and Food Preparation courses provide students with knowledge and skills
		about commercial food preparation and/or production, with a strong emphasis on
		nutrition, balanced diets, and satisfying special dietary needs. Topics typically
		include assessing nutrient content, the science of food and nutrition, physiology
		and utilization of nutrients. Course content may also cover additives,
Nutrition and Food Preparation	16054	contaminants, food- borne illnesses, and food technology.

		Restaurant Management and Operations courses provide students with knowledge and skills related to commercial and institutional food service establishments, with an emphasis on management. Course topics therefore include guest service and relationships, planning, resource management, and other topics related to
Restaurant Management and Operations	16055	managing and operating restaurants.
	16056	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.
Particular Topics in Restaurant, Food and Beverage Services	16057	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 of specific topics already described.
Restaurant, Food and Beverage Services—		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
Independent Study	16097	advanced skills.
Exploration of Lodging Careers	16101	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 industry.
Ladring Community	16102	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 the lodging
Lodging—Comprehensive	16102	industry.
		Institutional Maintenance courses present the knowledge and skills required for service work within institutions. Topics covered typically include housekeeping and laundry services, care and cleaning of facilities, and safety and sanitation procedures, in addition to career opportunities, business responsibilities, and other
Institutional Maintenance	16103	types of ongoing maintenance.
Particular Topics in Lodging	16104	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 specific topics already described.
Lodging—Independent Study	16147	Lodging—Independent Study courses, often conducted with instructors as mentors, enable students to explore topics of interest within the lodging industry. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular application, to explore a topic in greater detail, or to develop more advanced skills.
Louging—independent study	10147	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.
		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.
		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 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
Travel and Tourism—Independent Study	16197	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
Exploration of Recreation, Amusement and		industry terminology; the history of recreation, amusement, and attractions;
Attractions	16201	introduction to marketing; and the various careers available in the industry.

		Describes Assumed and Attractions Communication assumed assistance
		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
Recreation, Amusement and Attractions—		incorporating themes, timelines, budgets, target audiences, agendas, and public
Comprehensive	16202	relations.
Particular Topics in Recreation, Amusement		These courses examine specific topics in recreation, amusement, and attractions
and Attractions	16203	such as local opportunities rather than provide a general study of the industry.
		Recreation, Amusement, and Attractions Management courses teach students
		about the development and management of recreational areas and parks and
		cover the economic and environmental impact of tourism. These courses may also
Recreation, Amusement, and Attractions		emphasize career skills relative to the outdoor parks, recreation, and tourism
Management	16204	industries.
		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
Recreation, Amusement and Attractions—		in a particular application, to explore a topic in greater detail, or to develop more
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 Careers Exploration courses expose students to the opportunities
		available in the architecture and construction industry, including occupations such
		as carpenter, electrician, plumber, heating/air conditioning technician, safety
		supervisor, architect, engineer, and other occupations. 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.
		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
Particular Topics in Carpentry	17005	finishing.
		Woodworking courses introduce students to the various kinds of woods used in industry and offer experience in using selected woodworking tools. Students design and construct one or more projects and may prepare a bill of materials. Correct and safe use of tools and equipment is emphasized. As students advance, they focus on learning the terminology necessary to use power tools successfully, developing skills to safely use these tools in the workshop and becoming familiar with various kinds of wood-finishing materials. Advanced students typically design
Woodworking	17006	a project, prepare bills of materials, construct, and finish proposed projects.

Cobinatosking	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
Cabinetmaking	17007	spray finishes.
		Masonry courses enable students to learn to construct interior and exterior walls, columns, doorways, window openings, fireplaces, chimneys, and foundations from brick and concrete block. Along with other activities, students may mix and spread cement and mortar, read blueprints and plans, and estimate materials needed for a project. Other topics may also include how to layout buildings on footings and
Masonry	17008	how to establish grades using a surveying transit.
Building Maintenance	17009	Formerly known as Building Maintenance, Building Repair and 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.
-		Home Maintenance courses provide students with knowledge and skills related to
Home Maintenance	17010	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 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;
Wall Finishings	17011	lathing, preparing surfaces, smoothing, and finishing.
Upholstering	17012	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 refinishing.
Ophostering	1/012	reminiming.

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		Commercial Construction courses focus on residential construction principles and their relationship to commercial applications. Topics typically covered include
		commercial concrete forming, reinforcement and placement methods, stair
		construction, metal framing, interior finishes, suspended ceiling systems, metal
		framing and drywall applications, and commercial roofing methods and systems.
		These courses may also address equipment and tool usage in commercial
Commercial Construction	17013	construction.
		Concrete Foundations courses cover concrete and its relationship to construction
Concrete Foundations	17014	and concrete safety and testing techniques.
		Construction Estimating courses provide students with the opportunity to learn the
		fundamental principles of construction estimating. Course topics typically include
		procedures for estimating costs in different divisions of a project and determining
Construction Estimating	17015	the critical quantities of materials obtained from a set of plans.
		Construction Management courses introduce students to the concept of the
		project team, use of documents on a construction site, submittals, shop drawings,
		jobsite layout, meeting control, safety management, changes and claims forms,
		documents, and project closeout record keeping. Topics may also include
		construction law, construction contracts, and how to work with owners and
Construction Management	17016	subcontractors.
		These courses provide students with specialized knowledge and help them develop
		skills in particular topics concerning the processes, responsibilities, and
Particular Topics in Construction	17017	occupations of the construction industry.
		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, servicing, and
Air Conditioning	17051	installing electric, gas, and ground source 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.
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		Heating courses offer students training specific to the design, installation, and
		repair of heating systems for residential use. Topics typically include electric, gas,
		steam, and ground-source systems; ventilation procedures; safety practices; and
Heating	17053	installation 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.
		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,
Particular Topics in HVACR	17057	diagrams and blueprints, welding and soldering techniques, and so on.
		Plumbing courses provide students with instruction in installing waste and vent
		systems, water and gas pipes, trim, and fixtures. Skills taught include cutting and
		joining various types of pipe (for instance, steel, 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 pneumatic
Plumbing and Heating	17059	testing equipment.
		Course designed to teach basic skills required for installation of HVAC and
HVAC & Plumbing Systems	17060	plumbing systems.
		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
Air Conditioning, Heating and Plumbing—		particular application, to explore a topic in greater detail, or to develop more
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 is often (but
Exploration of Electricity/Electronics	17101	not always) an integral part of these courses.
Exploration of Electricity, Electronics	17101	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, safety is
Electricity—Comprehensive	17102	
Electricity—comprehensive	1/102	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,
	1=100	and the installation of lighting fixtures, outlets, and so on. Maintenance and repair
Residential Wiring	17103	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, emergency
Industrial Electricity	17104	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 application of
Particular Topics in Electricity	17105	electrical current.

		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,
Electricity/Electronics—General	17108	capacitor checkers, transistor testers, signal generators, and ohmmeters.
		These courses provide instruction in the theory and skills needed in fields involving
		electricity and electronics and related fields that focus on electrical wiring or
Particular Topics in Electricity/Electronics	17109	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 conversion
Digital Circuits	17112	techniques.
		Course design to teach basic skills required for installation of electrical and security
Electrical & Security Systems	17113	systems.

Electricity/Electronics—Independent Study courses, often conducted with instructors as mentors, enable students to expand their expertise in a particular application, to explore a topic related topics of interest. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular application, to explore a topic in greater detail, or to develop more advanced skills. Architecture and Construction—Independent Study courses, often conducted with instructors as mentors, enable students to explore architecture and construction-related topics of interest. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular application, to explore a topic in greater detail, or to develop more advanced skills. Introduction to Agriculture and Natural Resources courses survey a wide array of topics within the agricultural industry, exposing students to the many and varied types of agriculture and career opportunities and those in related fields. These courses serve to introduce students to the agricultural field, providing them an opportunity to identify an area for continued yor to determine that their interest lies elsewhere. These courses often focus on developing communication skills, scientific research, types of business ownership, business principles, and leadership skills. Agriculture—Comprehensive courses cover a wide range of agricultural inducting plant and animal science, production, and processing, agricultural mechanics; food production for global populations; construction and repair of farm structures; business operations and management; and the careers available in the agricultural mechanics; agricultural and animal science, production, and processing, egricultural animal science, production and repair of production for a growing global population, business principles and animal science, production and processing; environmental science and conservation, ecology, agricultural mechanics; agricultural order as the careers ava			
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Systems 18005 of environmental service systems.	Particular Topics in Environmental Service		skills in particular topics concerning the structure, processes, and implementation
	Systems	18005	of environmental service systems.

Formerly Plant Production/Science, Plant Systems/Science cours knowledge about the propagation of plants for food and fiber. T cover such topics as soil science, irrigation, pest and weed control processing, and farm operations. These courses may also cover t skills needed to produce all types of crops or may emphasize a p the agricultural industry.	hese courses may ol, food and fiber the knowledge and
Formerly known as General Horticulture, Horticultural Science of	OURCAS AVINOSA
students to the art and science of growing plants, shrubs, trees,	-
vegetables. In doing so, they cover a wide variety of topics, inclu	
plant science, greenhouse and nursery operations, soils and grow	_
mixtures, fruit and vegetable production, turf/golf course manage	_
and exterior plantscaping, irrigation systems, weed and pest con	itrol, and floral
Horticultural Science 18052 design.	
Ornamental Horticulture courses provide information regarding	
propagation of plants, flowers, trees, and shrubs, but place a spe	-
those plants that are used for decorative and aesthetic purposes	
particular emphasis, Ornamental Horticulture courses usually co	ncentrate on
Ornamental Horticulture 18053 nurseries and greenhouses and on the floristry industry.	
Turf and Landscape Management courses provide instruction the	-
plant science, soil and growing media mixtures, plant identificati	·
environments, and landscape design. These courses emphasize a	applying such
knowledge and skill to the design, establishment, and maintenar	nce of lawns, parks,
Turf and Landscape Management 18054 open space, golf courses and other sports facilities, and similar e	
These courses examine specific topics related to Plant Systems, s	such as floral
design, hydroponics, or landscaping, rather than provide a gener	ral study of plant
Particular Topics in Plant Systems 18056 systems or horticulture.	
Plant Identification and floral design are necessary knowledge sk	kills along with the
selection of greenhouse plants and management of greenhouses	s for production of
Floriculture and Greenhouse Management 18057 plants and flowers in the industry.	
Courses expose students to the art and science of growing plant.	s, shrubs, trees,
flowers, fruits, agricultural crops and vegetables. In doing so, the	ey cover a wide
variety of topics, including greenhouse and nursery operations, s	•
mixtures, soil chemistry, fertility, mineralogy, hydrology, soil con	
irrigation, fruit and vegetable production, turf/golf course mana	
and exterior plantscaping, irrigation systems, weed and pest con	_
Plant and Soil Science 18058 design.	•

		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 private
Landscano Scienco I	18059	
Landscape Science I	10033	spaces.
		Provides an overview of the plant industry, careers and the anatomical, taxonomy,
		physiological structures of plants. Photosynthesis, respiration and transpiration of
	40000	plants and the interdependence of plants and their growth. Soilless systems,
Principlies of Agriscience/Plant Science	18060	Reproduction, plant diseases and marketing of plant products.
		Student may develop career opportunities through internships with local
		Horticulture Businesses. Advanced knowledge and skills will be developed in plant
		genetics. Biotechnology through science based research projects, advanced based
Landscape Science II	18061	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 internal
Floriculture and Landscape Design	18064	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.
		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 salesmanship
Greenhouse Production and Management	18068	will be developed.
Creening age i rougetion and management	10000	Tim se deteloped.

		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 detail, or to
Plant Systems—Independent Study	18097	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, use of qualitative and quantitative analyses for decisionmaking,
Small Animal Care	18102	facilities, handling and training, and grooming are typical areas of study.
		Large Animal Care courses focus on the care and management of large animals.
		Animal nutrition, health, behavior, reproduction and breeding, anatomy and
		physiology, use of qualitative and quantitative analyses for decisionmaking,
		facilities, handling and training, and grooming are typical areas of study. Course
Large Animal Care	18103	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,
		use of qualitative and quantitative analyses for decisionmaking, facilities, handling
Equine Science	18104	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
		companion and farm animals. Course topics focus on anatomy and physiology,
		nutrition, behavior and training, disease prevention, reproduction, ethics of animal
		care, grooming, feeding, maintaining equipment and facilities, and other areas of
Veterinary Science	18105	study as 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 their
Particular Topics in Animal Systems	18106	growth and management.
		Animal Nutrition courses provide students with opportunities to study the
		structure and function of organic and inorganic nutrients. Topics may include the
		essential nutritive requirements of domestic livestock, poultry, and companion
		animals; digestion, absorption, metabolism, and barriers for nutrient utilization;
		sources of nutrients; application of energy systems and concepts; and regulation of
		feed intake in animals. These courses also teach students how to compare and
Animal Nutrition	18107	contrast the nutritional levels for animal maintenance and production.

Animal Genetics courses explore genetic inheritance in agricultural animals and the identification of livestock breeds by the origin, significance, distribution, and domestication of animal species. These courses allow students to compare and contrast the hierarchical classification of the major agricultural animal species and identify breeding system options based on principles of genetics. These courses also address selecting animals based on quantitative breeding values for specific characteristics. Animal Genetics 18108 Integrated Pest Management courses help students develop an understanding of the life cycles of and damage caused by pests, diseases, and weeds. Course topics may include the application of pesticides and/or herbicides to manage pest populations and assessing the effectiveness of pest management plans. Courses in Animal Systems—Independent Study, offer 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 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 in entrepreneurial ventures in 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 pro			
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include but are not limited to human relationships and effective communication, decision-making and problem-solving, leadership qualities and styles, and ensuring successful completion of group activities. These courses examine specific topics related to Agribusiness, such as international agriculture or commodities, rather than provide a general study of agribusiness			Agricultural Leadership courses help students develop leadership skills with a focus
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These courses examine specific topics related to Agribusiness, such as international agriculture or commodities, rather than provide a general study of agribusiness			decision-making and problem-solving, leadership qualities and styles, and ensuring
agriculture or commodities, rather than provide a general study of agribusiness	Agricultural Leadership	18203	, , ,
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Particular Tonics in Agribusiness 18204 Inrinciples			agriculture or commodities, rather than provide a general study of agribusiness
Tarticular Topics III Agribusiness	Particular Topics in Agribusiness	18204	principles.

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		Agriculture Computers and Technology courses help students develop their
		knowledge and skills in using computer and other technology to operate and
		manage agricultural businesses. These courses allow students to use computer
		hardware, software, and the Internet to find information, record and analyze
		financial and production data, track market trends and economic forecasts,
		monitor weather, utilize global positioning systems, and prepare communications
Agriculture Computers and Technology	18205	and reports.
		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.
		Provides students with the information and skills necessary for
		Career success in agribusiness and in the operation of entrepreneurial ventures.
		Topics include economic principles, budgeting, risk management, finance, business
		law, insurance and resource management. Other possible topics are: development
		of a business plan, employee/employer relations problem solving and decision
		making, using computers. A survey of the careers within the agricultural industry is
		also incorporated. This course focuses specifically on the marketing and
		promotional strategies for agricultural products. Students will develop a marketing
		plan for a specific product including target audience research and presentation
Applications in Agribusiness	18220	skills. Agricultural sales techniques for products will also be covered.
		Courses in Agribusiness—Independent Study, often conducted with instructors as
		mentors, enable students to explore topics of interest related to agribusiness.
		Independent Study courses may serve as an opportunity for students to expand
		their expertise in a particular application, to explore a topic in greater detail, or to
Agribusiness—Independent Study	18247	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, analyses of
Agricultural Production	18301	qualitative/quantitative data for decisionmaking, and farm management.
		Agricultural Processing courses impart the knowledge and skills needed to bring
		animal and plant products to market. They may cover a wide variety of topics,
		including care and maintenance of animals or plants, quality selection and
		preservation, equipment care and sanitation, government regulations, and
		marketing and consumer trends. Agricultural Processing courses may present an
		overview of agricultural 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,
Food Product Processing	18305	marketing, consumer trends, and product research and development.
1 ood 1 oddet 1 occssing	10303	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,
Aquaculture	18306	
Aquacuiture	16500	water quality and management, and business practices. Courses impart information about the causes, diagnosis, & treatment of diseases &
		,
		injuries of animals, typically emphasizing domestic and farm animals. Topics focus
Aminos I Caianas II	40207	on anatomy & physiology, nutrition, behavior, & reproduction, but may also
Animal Science II	18307	include other areas of study as appropriate.
Doubles Josies in Assistables		These courses examine specific topics related to producing and processing
Particular Topics in Agricultural	40200	agricultural products (such as meat cutting) rather than provide a general study of
Production/Processing	18309	production or processing.
		Sustainable/Alternative Agriculture courses explore technological and
		environmental changes and concerns. These courses address alternative
		approaches to food production including, but not limited to, organics, low-input,
		natural, and sustainable production methodology and practices. Course content
		may include comparing the effects of alternative production practices to those of
Sustainable/Alternative Agriculture	18310	conventional production practices.

		Viticulture courses prepare students for further studies in grape-growing,
		viticulture, and wine-making industry. Course topics typically include establishing
		and managing vineyards; harvesting; fermentation and wine making; marketing;
		and exploring career options within the industry. Agricultural applications specific
Viticulture	18311	to vineyards and wineries are emphasized.
		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
Food Science II	18317	which includes hands on laboratory experiences.
		Introduces theory and methods relating to applications of biotechnology in
		agriculture. The course emphasizes emerging laboratory technologies in the area of
		agricultural biotechnology including food and natural resource management. The
		course will explore plan and animal genetic engineering, alternative fuel
Applications in Ag Biotechnology	18320	production, food production, agricultural pests and controls, and other topics.
		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
Agricultural Production and Processing—		particular application, to explore a topic in greater detail, or to develop more
Independent Study	18347	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 industry. While learning to apply their knowledge of the basic principles
		of technological design and production 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 tools and machines; the
		construction and repair of structures integral to agricultural operations; a study of
		electricity and power principles; and the study of alternative fuels, technology and
Agriculture Mechanics/Equipment/Structures	18401	engineering, and safety procedures.
		Agriculture Mechanics and Equipment courses provide students with the
		engineering, power, and mechanical 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, pneumatic,
Agriculture Mechanics and Equipment	18402	renewable, wind, solar, and mechanical systems.

		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 technology, design, planning, and construction knowledge and skills
		(such as measurement, carpentry, plumbing, concrete, and electrical systems), in
Agriculture Structures	18403	addition to the safe operation of tools, technology and machines.
Agriculture Structures	10403	Formerly known as Agriculture Welding, Agricultural Metal Fabrication Technology
		courses provide students with the skills and knowledge that are specifically
		applicable to the tools and equipment used in the industry. In learning to apply
		basic technical knowledge and skills (engines, power, welding, and structures,
		among others), students may explore a broad range of topics, including the
		operation, mechanics, and care of tools, technology and machines; the
Agricultural Matal Fabrication Tacknalogy	10404	construction and repair of structures integral to agricultural operations; an
Agricultural Metal Fabrication Technology	18404	introduction or review of electricity and power; and safety procedures.
Built las Tariasia Auda II ad Markasia		These courses examine specific topics related to agricultural mechanics and
Particular Topics in Agricultural Mechanics	40405	construction, such as specific vehicles or structures, rather than provide a general
and Construction	18405	study of mechanics and construction techniques.
		Water Treatment courses provide instruction regarding the environmental hazards
		associated with identifying and accepting waste water disposal. Course topics
		typically include waste water, the steps in waste water treatment, compliance with
		applicable regulations, and the use of water-testing instruments and water-
Water Treatment	18406	treatment equipment to treat wastewater.
		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 result
Advanced Agricultural Welding	18407	in welding certification.
		The student will gain skills and knowledge for the G.T.A.W. (Gas tungsten arc
		welding) process. Equipment setup, welding safety, welding in the flat and
		horizontal position and perform visual inspection of welds. This course ties in with
Agricultural Welding III	18408	the AWS SENSE certification and is articulated to post – secondary.
		Courses provide students with the skills & knowledge that are specifically
		applicable to the construction, maintenance, and repair of structures integral to
		the agricultural industry, including but not limited to animal enclosures, irrigation
		systems, & storage facilities. In these courses, students typically study design,
		planning, & construction knowledge & skills (such as survey, carpentry, plumbing,
		concrete, & electrical systems), in addition to the safe operation of tools and
Agricultural Fabrication	18409	machines

		Courses provide students with the opportunity to learn how to service &
		recondition small engines, typically emphasizing two and four-cycle engines.
		Courses provide student with opportunities to troubleshoot and repair speed
		controls, lubrication, ignition, fuel, power transfer, cooling, exhaust, and starting
		systems; use hand, power, and overhaul tools; and read and interpret service
		manuals and parts' catalogs. 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.
		Course provides students the opportunity to explore plastics in Agriculture and
Agricultural Plastics	18413	how plastics are used in the Ag Industry.
		The student will gain necessary knowledge and skills for S.M.A.W (shielded metal
		arc welding) G.M.A.W (Gas Metal Arc Welding) G.T.A.W for the AWS SENSE
		welding certification. Additional course work in basic math and metal
		measurements, use of blueprints and symbols in welding designs, and basic
Agricultural Welding IV	18414	metallurgy and metal identification will complete the welding certification.
		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
Agricultural Mechanics and Construction—		may serve as an opportunity for students to expand their expertise in a particular
Independent Study	18447	application, to explore a topic in greater detail, or to develop more advanced skills.
		Formerly known as Wildlife Management, Wildlife and Recreation 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. These courses emphasize how humans and
		animals may both take advantage of the same land or how to gain economic
		benefits from the land while not degrading its natural resources or depleting plant
		or animal populations. Students may also learn how to manage wildlife and lands
Wildlife and Recreation Management	18501	for recreational purposes.

		Formerly known as Forestry, Forestry Management courses provide students with the information and experience necessary for the cultivation, management, and care of forests or timberlands. These 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 urban forestry, including the principles of selecting, planting, and caring for trees in urban settings. Settings may include streets, parks, commercial/industrial landscape settings, and recreational use of forests. These courses also address forestry harvesting and 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
Forestry Management	18502	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, safe usage initiatives, forest production and management, wildlife
Natural Resources Management	18504	preservation, and commercial use of natural resources.
Particular Topics in Natural Resources	18505	These courses examine specific topics related to natural resources, such as urban forestry or hunter education, rather than provide a general study of natural resource principles and topics.
Environmental Resouces and Wildlife	18506	Courses combine the fields of ecology & conservation with planning for the efficient use and preservation of land, water, wildlife, and forests. Within the general area of natural resources management, these courses usually cover specific topics & uses, such as hunting or fishing preserves, forest production and management, wildlife ID, production and/or ecosystems management and preservation, and human outdoor recreation.
Environmental resources and vinding	10300	Alternative Energy courses help students identify renewable and nonrenewable
		energy sources and natural resources. Topics typically include alternative energy
		sources and their respective advantages and disadvantages; the impact of
		conventional and alternative energy sources on the environment; the efficiency of
		energy production from various sources; and careers in the fields of alternative
Alternative Energy	18506	energy and sustainability.
		Course will cover the modern sources of energy that are used in agriculture related
Energy Resources in Agriculture	18507	to wind, ethanol, and Biodiesel fuels.

		Courses in Natural Resources—Independent Study, often conducted with
		instructors as mentors, enable students to explore topics of interest related to
		natural resources. Independent Study courses may serve as an opportunity for
		students to expand their expertise in a particular application, to explore a topic in
Natural Resources—Independent Study	18547	greater detail, or to develop more advanced skills.
Material Resources macpendent study	10347	Courses in Agriculture, Food, and Natural Resources—Independent Study, often
		conducted with instructors as mentors, enable students to explore topic of interest
		·
Assistations Food and National December		related to agriculture, food, and natural resources. Independent Study courses may
Agriculture, Food, and Natural Resources—	40007	serve as an opportunity for students to expand their expertise in a particular
Independent Study	18997	application, to explore a topic in greater detail, or to develop more advanced skills.
		Human Services Career Exploration courses introduce and expose students to
		career opportunities pertaining to the provision of individual, family, personal, and
		consumer services for other human beings. Course topics vary and may include,
		but are not limited to, child development and services, counseling and mental
		health services, family and community services, personal care services, and
Human Services Career Exploration	19001	consumer services. Course activities depend 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 pre-
		school age. Main topics include the fundamentals of working with infants, toddlers,
		and older children; providing healthy environments; evaluating child care settings;
		and examining the practices, regulations, and opportunities in the child care
		industry. Often Child Care courses provide students with practical experience,
		including observation time in a child care center. Advanced topics may include
		various learning theories; development of activities; operation of a child care
		center; recognition of childhood diseases, abuse, and neglect; and first
Child Care	19051	aid/emergency training.
		Child Development courses provide students with knowledge about the physical,
		mental, emotional, social, and moral growth and development of children from
		conception to pre-school age, emphasizing the application of this knowledge in
		child care settings and/or home environments. Brain development and current
		developmental research are addressed. These courses typically include related
Child Development	19052	topics such as the 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 economic and legal issues, 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
Elder Care	19053	opportunity to explore various careers.
LIUCI CAIC	13033	opportunity to explore various careers.

		Formerly known as Caregiving Service, Child and Adult Care Services 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 economic and legal issues, planning daily routines; appropriate environments and activities; growth
Caregiving Service	19054	and aging processes; and techniques for managing a center or working in others' homes.
Caregiving Service	15054	These courses examine specific topics related to child and elder care, such as
Particular Topics in Child and Elder Care	19055	regulations of the industry or caring for people with special needs, rather than providing a general study of child and elder care.
·		Child and Elder Care—Independent Study courses, often conducted with
		instructors as mentors, enable students to explore topics of interest related to
		child and elder care. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular application, to explore a topic in
Child and Elder Care—Independent Study	19097	greater 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.
		Formerly known as Early Childhood Education, Teaching—Early Childhood
		Education courses address child development and education issues, so that
		students can guide the development of children in educational settings. These
		courses typically include the planning and implementing of developmentally
		appropriate learning activities, health and safety practices, safe learning
Teaching - Early Childhood Education	19153	environments, and 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.

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		Courses introduce students to the principles underlying teaching and learning, the
		responsibilities and duties of teachers, and the techniques of imparting knowledge
		and information. These courses typically expose students to and train them in
		classroom management, student behavior, leadership, and human relations skills,
		assessment of student progress, teaching strategies and various career
		opportunities in the field of education. This course includes advanced work
Teaching as a Career	19155	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 to
Education—Independent Study	19197	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.
		Clothing/Textile Maintenance courses provide students with the knowledge and
		skills to clean, care for, and maintain clothing and textiles. Course topics typically
		include dry cleaning and laundering techniques, identifying fabrics and the optimal
		cleaning agents and processes, instruction in altering and repairing garments, and
Clothing/Textile Maintenance	19202	the safe use of the equipment, tools, and agents.
-		Apparel Construction courses provide students with the knowledge and skill to
		construct, alter, and repair clothing and textile products. Course topics typically
		include taking measurements, creating and preparing patterns, and various sewing
		techniques; topics may also include customer service, fashion design principles,
		and business management. These courses may also offer specialized knowledge in
Apparel Construction	19203	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,
Apparel and Textile Services	19204	and tailoring.
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		Home Furnishing courses provide students with basic knowledge regarding furnishing and decorating home environments. While exploring design principles, personal or customer needs and style, and decisionmaking, students may also
		explore the following topics: color, texture, furniture styles and arrangement,
		lighting, window treatments, floor and wall coverings, and home
		improvement/modification. Home Furnishing courses may also cover architectural
		style and design and take a larger look at housing problems or current housing
Home Furnishing	19205	issues.
Home rumshing	13203	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.
Home Furnishings Draduction	10206	Course content typically includes proper use of equipment, interior decorating
Home Furnishings Production	19206	principles, and employability skills.
		These courses examine specific topics in apparel and furnishings other than those
Built last state Assessed and Frankling	40207	already described, such as tailoring or shoe repair, rather than providing a general
Particular Topics in Apparel and Furnishings	19207	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
Apparel and Furnishings—Independent Study	19247	explore a topic in greater detail, or to develop more advanced skills.
		Counseling and Mental Health courses provide students with the knowledge and
		skills necessary to pursue a counseling and mental health career through simulated
		environments. These courses allow students to apply their knowledge of ethical
		and legal responsibilities, the limitations of these responsibilities, and the
Counseling and Mental Health	19301	implications of their actions.
		Human Services—Independent Study courses, often conducted with instructors as
		mentors, enable students to explore topics of interest related to providing human
		services. Independent Study courses may serve as an opportunity for students to
		expand their expertise in a particular application, to explore a topic in greater
Human Services—Independent Study	19997	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
Exploration of Transportation, Distribution		operating or managing facilities that hold what is being transported. Therefore,
and Logistics	20001	specific course topics vary widely and depend upon the careers being explored.
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		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.
Truck and bus briving	20031	
		Heavy Equipment Operation courses enable students to safely operate the heavy
Hara Factorial Consultation	20052	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 airport
Aviation	20053	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 maintenance,
Boat Operation	20054	commercial fishing, firefighting aboard ship, and CPR.
		Pilot Training courses prepare students to become pilots by participating in flight
		training, ground school, and simulator instruction. Topics covered typically include
		preflight operations; flight maneuvering with reference to ground objects; flying at
		critically slow air speeds and recovering from stalls; takeoffs and landings;
		controlling and maneuvering an aircraft; cross country flying; night flying; and
		emergency operation. Other course content may include meteorology,
Pilot Training	20055	aerodynamics, navigation, physiology, and airfield and flight environments.
		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.
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		Power and Mechanics courses enable students to understand the principles
		underlying various kinds of mechanics (aircraft, auto, diesel, and marine) and how
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		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 management
Automotive Mechanics—Comprehensive	20104	and entrepreneurship).
riatemente medianies comprenentie	20101	These courses provide instruction in the mechanics of a particular system or
		condition, such as transmissions, brakes, fuel, exhaust, or electrical systems, rather
Particular Topics in Automotive Mechanics	20105	than providing a general study of diagnosis and repair of automobile mechanics.
Tarticular Topics III Automotive Mechanics	20103	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,
	20406	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 covered
Particular Topics in Diesel Mechanics	20108	in specific detail in this type of course.
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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 brains, servicing fuel, exhaust, and electrical systems; performing tune-ups; and maintaining and repairing engines. Students may also learn safety on the job, employability skills, and entrepreneurship. Small Vehicle Mechanics 20109 Small Engine Mechanics courses provide students with the opportunity to learn how to service and recondition small engines, typically emphasizing two-and four-cycle engines. These courses provide students with opportunities to troubleshoot and repair speed controls, lubrication, ignition, fuel, power transfer, cooling, exhaust, and starting systems; use hand, power, and overhaul tools; and read and interpret service manuals and parts' catalogs. Applications may include lawn mowers, tractors, tillers, power tools, and so on. The content of Marine Mechanics courses includes the service and repair of electrical, mechanical, power transfer, hydraulic, fuel, and cooling systems as applied to boat and/or ship engines; boat rigging; trailers; and marine-related merchandise. Courses may also cover communication, human relations, and employability skills, as well as safe, efficient work practices. Heavy Equipment Mechanics courses include the service and repair of electrical, mechanical, power transfer, hydraulic, fuel, and cooling systems of heavy equipment Mechanics courses include the service and repair of electrical, mechanical, power transfer, hydraulic, and cooling systems of heavy equipment Mechanics courses include the service and repair of electrical, mechanical, power transfer, hydraulic, and cooling systems of heavy equipment Mechanics courses include the service and repair of electrical, mechanical, power transfer, hydraulic, and cooling systems of heavy equipment Mechanics courses include the service and repair of electrical, and course of the structure of the provide students			Small Vehicle Mechanics courses equip students with the knowledge and skill to
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and repair, in addition to occupational safety, employability, and entrepreneurship			, , ,
	Automotive Detailing and Reconditioning	20115	

Automotive Body Repair and Refinishing courses pro and skills regarding the repair and refinishing of dar	ovide students with knowledge
content may include (but is not limited to) stretchin sheet metal; welding skills; frame and metal straigh synthetic materials; removing, repairing, and install panels, hoods, doors, and windows/glass; preparing for refinishing; painting; applying body fillers; and e costs.	maged or used cars. Course ng and shrinking auto body stening; repair of fiberglass and ing auto body parts such as g vehicles and vehicle surfaces
These courses provide specific instruction in individ	ual topics relevant to the repair
and refinishing of automobile bodies and surfaces.	
Particular Topics in Automotive Body Repair related topics (such as nonstructural part replacement)	-
and Refinishing 20117 plastic repair) receive particular attention in this type	-
Boat Repair/Refinishing courses convey a broad ran	
about how to repair and refinish boat mechanics, st	_
courses, students become proficient in marine term	
types of marine manufacturing and occupations, an	<u>-</u> ,
wood, fiberglass, and metal surfaces for painting or	
Boat Repair/Refinishing 20118 often cover safety, employability skills, and entrepre	_
Hybrid Engines courses introduce students to the fu	
vehicles. These courses explore the hybrid power pl	lant and may include such
topics as hybrid batteries, high- and low-voltage sys	stems, inverters, safety
Hybrid Engines 20119 procedures, hybrid maintenance and diagnostics, as	nd alternative fuels.
Motorsports Technology courses provide students v	
principles of race car fabrication and all facets of the	e racing industry. Technical
aspects of the courses may include skill developmen	nt in vehicle assembly of high-
performance engines and components using specia	lty tools, welding, and auto
body procedures. Course content may also explore	the motorsports technology
Motorsports Technology 20120 industry, address safety issues, and identify careers	in the field.
Mechanics and Repair—Independent Study courses	s, often conducted with
instructors as mentors, enable students to explore t	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 i	in a particular application, to
Mechanics and Repair—Independent Study 20147 explore a topic in greater detail, or to develop more	e advanced skills.
Distribution—Comprehensive courses provide stude	ents with knowledge and skills
related to the safe and efficient delivery of commod	
Course content typically includes the comparative a	_
transportation, distribution networks, processes for	
Distribution—Comprehensive 20151 material, transportation of goods in a safe and secu	re manner, and packaging.

		Warehouse Operations courses convey the principles and processes underlying the
		receiving, loading and unloading, tracking, and storing of large quantities of
		materials. Course topics typically include a variety of logistical implications for
		moving materials by several different modes of transportation, safety and security,
Warehouse Operations	20152	and appropriate storage techniques.
Transmission operations	10101	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
Distribution and Logistics—Independent		for students to expand their expertise in a particular application, to explore a topic
Study	20197	in greater detail, or to develop more advanced skills.
Study	20137	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
Transportation, Distribution and Logistics—		particular application, to explore a topic in greater detail, or to develop more
Independent Study	20997	advanced skills.
macpenaent study	20337	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 career
Pre-Engineering Technology	21001	opportunities.
The Engineering recimiology	21001	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 Applications	21002	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 of technology,
Engineering Technology	21003	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 technological
Principles of Engineering	21004	change.
		onange.

		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 prototype
Engineering Design and Development	21007	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 help students develop and expand their skills and knowledge of
		robotics and related scientific and engineering topics. Course topics may include
		principles of mechanics, electronics, hydraulics, pneumatics, programmable logic
		controllers. These courses may emphasize the use of engineering principles to
		design and build robots, construct and connect sensors, and program robots in the
Robotics	21009	programming language.
		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
Civil Engineering	21011	course topics may include traffic analysis, geologic principles, 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,
Civil Engineering and Architecture	21012	site-planning, building design, project documentation, and presentation.
		Biotechnical Engineering courses enable students to develop and expand their knowledge and skills in biology, physics, technology, and mathematics. Course content may vary widely, drawing upon diverse fields such as biomedical
		engineering, biomolecular genetics, bioprocess engineering, agricultural biology, or
		environmental engineering. Students may engage in problems related to
		biomechanics, cardiovascular engineering, genetic engineering, agricultural
		biotechnology, tissue engineering, biomedical devices, human interfaces,
Biotechnical Engineering	21014	bioprocesses, forensics, and bioethics.
		These courses examine specific topics in engineering other than those already
Particular Topics in Engineering	21015	described.
		Engineering Analysis courses help students apply engineering design processes to areas of the designed world, explore ethics in a technological world, and examine systems in civil, mechanical, electrical, and chemical engineering. These courses may provide STEM-based projects to teach students to communicate information
Engineering Analysis	21016	through team-based presentations, proposals, and technical reports.
	21047	Engineering—Independent Study courses, often conducted with instructors as mentors, enable students to explore topics of interest related to engineering. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular application, to explore a topic in greater detail, or to
Engineering—Independent Study	21047	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 applications and
Technological Literacy	21051	uses.
		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.

		Emerging Technologies courses expose students to and help them understand new
		and emerging technologies. The range of technological issues covered in this
		course can vary widely and content covered can be flexible. Topics covered may
		include, but are not limited to, lasers, fiber optics, robotics, and transportation
Emerging Technologies	21053	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,
Technology Innovation and Assessment	21054	modeling, simulating, constructing, testing, and refining designs.
		Aerospace Technology courses introduce students to the technology systems used
		in the aerospace industry and their interrelationships. Examples of such systems
		include satellite communications systems, composite materials in airframe
		manufacturing, space station constructions techniques, space shuttle propulsion
Aerospace Technology	21055	systems, aerostatics, and aerodynamics.
		These courses examine specific topics in technology applications other than those
Particular Topics in Technology Applications	21056	already described.
		Laser/Fiber Optics courses cover the history, safety, and theory of laser light and
		laser systems. In these courses, various laser system configurations and operations
Laser/Fiber Optics	21057	are examined.
		Geospatial Technology courses provide students with experiences pertaining to the
		study of geographic information systems (GIS), global positioning systems (GPS),
		remote sensing (RS), digital image processing simulator (DIPS), Geodesy,
		automated cartography (Auto-Carto), land surveying (LS), and navigation. These
		courses may use spatial analysis models and guidelines for integrating,
		interpreting, analyzing, and synthesizing geographic data, with a focus on both the
		implications and limitations of such technologies. Other topics may include
		interfacing with telecommunications and automated database management
Geospatial Technology	21058	systems.
		Modeling and Simulation Technology courses allow students to explore the use of
		modeling, simulation, and game development software to solve real-world
		problems in science, technology, engineering, and mathematics (STEM). These
		courses typically address the systems, processes, tools, and implications of the field
		of modeling and simulation technology. Courses topics may also include evaluating
		and testing engineering designs, modeling geospatial data, observing and analyzing
		physics simulations, programming games for educational purposes, and creating
Modeling and Simulation Technology	21059	visualization systems with 3D models.

		Wind Energy courses introduce students to the terminology and other aspects of
		the wind industry. Course topics may include, but are not limited to, the history
		and development of the wind industry, types and applications of various wind
		turbines, environmental and economic issues of the wind industry, and the future
Wind Energy	21060	of the industry.
		Wind Turbine Construction and Operation courses provide students with an
		understanding of wind turbine operation and the wind energy industry. These
		course enable students to study site preparation and construction, turbine
		component specifications and manufacturing, operation and maintenance
Wind Turbine Construction and Operation	21061	programs, and data acquisition and assessment.
		Technology—Independent Study courses, often conducted with instructors as
		mentors, enable students to explore topics of interest related to technology
		systems and processes. Independent Study courses may serve as an opportunity
		for students to expand their expertise in a particular application, to explore a topic
Technology—Independent Study	21097	in greater detail, or to develop more advanced skills.
		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.
		Drafting—General 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 to students the knowledge and experience to
		develop the ability to perform freehand sketching, lettering, geometric
		construction, and multiview projections and to produce various types of drawings
		(working, detail, assembly, schematic, perspective, and so on). Computer-aided
		drafting (CAD) systems (if available) are typically introduced and used to fulfill
Drafting—General	21102	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 and survey
Drafting—Civil/Structural	21104	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
Drafting—Electrical/Electronic	21105	particular emphasis on those skills needed for electrical and electronic schematics.
		Drafting—Technical/Mechanical courses introduce students to and help them
		refine the technical craft of drawing illustrations to represent and/or analyze
		design specifications, using examples drawn from industrial applications. These
		courses are intended to help students develop general drafting skills, but place a
		particular emphasis on sectioning, auxiliary views, revolutions, and surface
		development. In these courses, students typically learn basic machining and
		fabrication processes as they draw schematic diagrams featuring cams, gears,
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 to
CAD Design and Software	21107	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.
		Designed by the College Board to parallel college-level courses in critical thinking
		and communications, AP Seminar courses provide students with the opportunity
		to explore complex real world issues through cross-curricular lenses. Course topics
		vary and may include local, civic, or global issues and interdisciplinary subject
		areas. Courses typically emphasize research, communication, and critical-thinking
		skills to explore the issues addressed. Students may also examine source materials
		such as articles and other texts; speeches and personal accounts; and relevant
AP Seminar	22110	artistic and literary works.

		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 2	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 multidimensional
GIS Spatial Application 2	21112	data.
Drafting—Independent Study 2	21147	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 to develop more advanced skills.
Advanced Drafting/CAD	21150	An advanced level course that provides students with the knowledge and skills 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 components such
Foundations of Electronics 2	21201	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.
Materials Science and Engineering	21252	Materials Science and Engineering courses expose students to the tools, machines, and processes that may be encountered in the interface between manufacturing and engineering. In particular, these courses stress the study of properties and analysis of those materials: testing and processing metals, plastics, woods, ceramics, and composite materials utilized in the process of constructing usable products. These courses enable students to experience development of an idea into a finished product, with instruction in planning, designing, selecting materials, 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.
Family and Consumer Science— Comprehensive	22201	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 interpersonal relationships.
Food and Nutrition	22202	Food and Nutrition courses provide students with an understanding of food's role in society, instruction in how to plan and prepare meals, experience in the proper use of equipment and utensils, and background on the nutritional needs and requirements for healthy living. Some classes place a heavier emphasis on the nutritional components of a balanced diet, while others concentrate on specific types of food preparation. Although these courses may present career opportunities in the food service industry, their emphasis is not career-related.

		Food Science courses offer appoint within to study the composition of the study the
		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
Food Science	22203	through laboratory experiments.
		Child Development/Parenting courses provide students with knowledge about the
		physical, mental, emotional, and social growth and development of children from
		conception to pre-school age. In addition, these courses help students discover
		how parents should respond to the various stages of childhood. Course content
		typically includes topics such as prenatal and birth processes; responsibilities and
		difficulties of parenthood; fundamentals of children's emotional and physical
Child Development/Parenting	22204	development; and the appropriate care of infants, toddlers, and young children.
		Clothing/Sewing courses introduce students to and expand their knowledge of
		various aspects of wearing apparel, sewing, and fashion. These courses typically
		include wardrobe planning; selection, care, and repair of various materials; and
		construction of one or more garments. They may also include related topics, such
		as fashion design, fashion history, the social and psychological aspects of clothing,
Clothing/Sewing	22205	careers in the clothing industry, and craft sewing.
<u> </u>		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
Consumer Economics/Personal Finance	22210	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 personal (rather than
Home Décor	22211	commercial) use and application of home décor principles.
110.110 20001		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.
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		Nutrition & Health Science courses focus on biological systems and personal health topics such as nutrition, stress management, drug/alcohol abuse prevention as functions of biological impact on body systems. Key biological concepts addressed include: homeostasis, metabolism, inheritance of traits, feedback systems, and
Nutrition and Health Science	22213	defense against disease.
Family Chydica D	22218	The Family Studies B course explores the roles and responsibilities of parents such as how society, media, technology and diversity impact their ability to balance work and family. It also includes the development of children and parents as their earliest teacher. Parenting styles and family stages are explored as is the changing demographics which will change the face of the US family. Occupations related to meeting the needs of families will be analyzed. This course will promote the creation of healthy and sustainable families be they their own or those they work with.
Family Studies B	22218	
		Consumer and Personal Finance B, explores the relationship of basic money management and consumer decision-making across the lifespan. It includes an indepth look at risk management, use of credit, consumer rights and responsibilities, setting goals and impact of the family on personal financial decision making. How to make wise choices to develop a healthy financial self will be a major component
Consumer and Personal Finance B	22220	of this course as well as an introduction to the occupations related to the field.
		Family and Consumer Science—Independent Study courses, often conducted with instructors as mentors, enable students to explore topics of interest related to home- and self-management. Independent Study courses may provide students
Family and Consumer Science—Independent		with an opportunity to expand their expertise in a particular application, to explore
Study	22247	a topic in greater detail, or to develop more advanced skills.
		Introduction to Drawing emphasizes the development of fundamental drawing skills. Focus will be on the application of art theory, processes and techniques that increase the power of observation. Instruction includes the elements and principles of design as applied in composition through hard copy and/or electronic
Introduction to Drawing	30005	software.
		21st Century Journalism promotes the development of the skill set needed today and in the future. Topics include an exploration of the role media and the communications industry has in society, the development of the technical skills related to journalistic writing and interviewing, as well as understand the ethical
21st Century Journalism	30100	and legal issues related to the field.

means to communicate ideas. Topics include an understanding of illustration as it applicable to careers in graphic design, animation, flashion/fextile design, industrial design, web design, architecture, interior aging and/of fine arts. Techniques in traditional and digital illustration applications will be explored as 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 techniques to develop a quality product. Audio Video Production Fundamentals provides a basic understanding of producing video for a variety of uses. Topics include analyzing the pre-production, production and post-production produces are equipment and learning composition techniques used to develop a quality product. Bigital Media Technology 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 industry. Photo Imaging 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 industry. Photo Imaging teaches the technical skills needed to work with techniques to take, edit and manipulate digital images. Essentials of Interior and Textile Design introduces students to and expands upon the various aspects of industry, conveying the commercial application of principles and elements of design, production processes, and maintenance techniques to meet the design needs of humans. This course will also provide a discussion and 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, et.), and how trends are developed. Additional topics will be generated as trends are identified. Interior and Textile			A principle of Illustration explores a variety of media, tools and supports as a
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entrepreneurship will be introduced as will the relationship of the skills to set and			display and sales of interior and textile items. Basic management and
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	Interior and Textile Merchandising	30112	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
Video Production	30150	applies), acting as the videographer, and editor to make it fluid 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
Digital Media Design and Production	30151	principles, and embedding audio, video or other content in digital formats.
		Interior and Textile Design Studio provides students with the opportunity to
		expand knowledge and experiences with 4-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 application course is
Interior and Textile Design Studio	30160	client driven in the interior, textile or apparel fields.
		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
Applied Business Development	32200	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 an
Food Technology and Development	34053	identified need.

		This serves was idea at adopte with an even investible large and chills related
		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)
Foundations of Lodging	34054	as well as the guest cycle.
		Culinary Art—General Skill Specialty will focus upon the skills generally recognized
		as important to the field of culinary arts. Topics will include plating, garnishes,
		soups, sauces and main dish presentation. Bakery and desserts will be introduced,
		but not the main focus on this course. Catering experiences may be included as
		well as observations of those already in the field that are responsible for these
Culinary Art - General Skill Specialty	34056	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 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
Culinary Art - Bakery/Grains Specialty	34057	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 ingredients, procedures
Culinary Art - International specialty	34058	
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Baking and Pastry II	34059	· · · · · · · · · · · · · · · · · · ·
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Lodging Management	34155	
Lodging Management II	34159	,
Culinary Art - Bakery/Grains Specialty	34057 34058	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 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

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		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 following
Culinary Applications	34198	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
Lodging Management Applications	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 terminology;
Health Science II A	36002	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; and
Health Science II B	36003	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 management and
Home Health Care	36053	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
Emergency Medical Technology B	36055	above and beyond those listed above must be integrated into the curriculum.

Pharmacy Assistant	36152	The course content for this course will emphasize the knowledge and skills necessary to assist a pharmacist or pharmacy technician. Course content will enable the student to understand medical terminology, keep and maintain records, label medications, perform computer patient billing, perform stock inventory, and order supplies. To receive a full credit for this course, it must include pharmaceutical classification, drug interactions and interpersonal/communication skills. (This is a 1 credit course.)
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.
Health Science III Classroom/Work Experience	36991	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 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.
Health Science V	36993	Students are required to rotate through a career from each of the five pathways for a Health Science Education cluster. Work experience only is developed to provide a rotational clinical/shadowing experience for the students at a variety of settings (i.e., dentist office, Therapeutic; occupational therapy, diagnostic; social worker, Health Informatics; interpreter, Support Services; pharmacy, Biotechnology). Goals are typically set cooperatively by the student, parents, teacher and employer. The work experience may be paid or unpaid. Additional course content may include but is not limited to leadership skills and research of personal career interests in healthcare.
		This course provides an opportunity for students to participate in both the classroom and in one or more work experience rotations in each of the five pathways of the Health Science Education career cluster. During rotation opportunities, students will gain knowledge and skills required of all aspects of the healthcare profession. Students must complete at least five (5) rotations during the semester that encompass occupations representing Diagnostic Services, Therapeutic Services, Health Informatics, Support Services and Biotechnology. Teaching and learning experiences to be included but not limited to are portfolio development, documentation of daily shadowing experiences, appropriate communication skills, and proper application of HIPPA rules and regulations.
Health Science VI (Classroom and Work		Additional course content may include but is not limited to leadership skills and
Experience)	36994	research of personal career interests in healthcare.

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current and future trends, and public policy for commercial and industrial buildings (e.g. office buildings, warehouses and manufacturing sites, etc.). Provides students with the knowledge and skills needed to program and operate			An application level course designed to instruct students in the skills necessary to
Commercial and Industrial Interior Design 38212 (e.g. office buildings, warehouses and manufacturing sites, etc.). Provides students with the knowledge and skills needed to program and operate			design interior spaces that acknowledge client needs, legislated codes, historic,
Provides students with the knowledge and skills needed to program and operate			current and future trends, and public policy for commercial and industrial buildings
	Commercial and Industrial Interior Design	38212	(e.g. office buildings, warehouses and manufacturing sites, etc.).
Automated Systems 39010 robotic equipment in manufacturing occupations.			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, computer
Advanced Production Blueprint Reading	39108	models and dimensioning.
		Provides students with the knowledge and skills to interpret the variety of
		drawings used in maintenance occupations including: blueprints, schematics, flow
Maintenance Blueprint Reading	39109	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 machining
Machine Tool Technology II	39204	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 for car
Automotive Information	40050	insurance, acquiring a title, etc.
		This course gives students an overview of transportation industry skills and career
Introduction to Transportation	40100	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
Fundamentals of Electronic/Electrical		basic theories, equipment, and skills needed to inspect and service 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 Small Engines & Powertrains	40214	advanced knowledge and skills common to all small engine operations and repair.
		A comprehensive technical level covers the tools, skills, and techniques required to
		perform base engine mechanical repair and testing. This includes engine removal,
Engine mechanical Repair-Gas &/or Diesel	40216	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 climate control
Mobile HVAC	40228	system.
Research & Emerging Trends in		An advanced research and application course covering specific topics 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
Research & Emerging Trends in		more in-depth research opportunities, the creation of a portfolio documentation of
Transportation	40251	internship activities and the completion of the OSHA 10 Safety 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.
		Students create interactive stories in Scratch™ (an easy-to-use programming
		language); work in teams to create simple apps for mobile devices using App
		Inventor; and analyze data about students' health, social habits, and interests using
		functions in Excel®. Students will learn the impact of computing in society and the
		application of computing across career paths. They will also transfer the
Technical Level Introduction to Computer		understanding of programming gained in App Inventor to a third language,
Science	41010	Python®, in which they learn introductory elements of text-based programming.
		Using Python® as a primary tool and incorporating multiple platforms and
		languages for computation, this course aims to develop computational thinking,
		generate excitement about career paths that utilize computing, and introduce
		professional tools that foster creativity and collaboration. This course can be a
		student's first course in computer science, although we encourage students
		without prior computing experience to start with Technical Level Introduction to
		Computer Science. This course helps students develop programming expertise and
		explore the workings of the Internet. Projects and problems include app
Computer Science and Software Engineering	41011	development, visualization of data, cybersecurity, robotics, and simulation.
		CSA focuses on integrating technologies across multiple platforms and networks,
		including the Internet. Students collaborate to produce programs that integrate
		mobile devices and leverage those devices for distributed collection and data
		processing. Students analyze, adapt, and improve each other's programs while
Computer Science Application (CSA)	41020	working primarily in Java™ and other industry-standard tools.

		In (CAAA) students superts models and simulate assist interior and highering
		In (SAM), students create models and simulate social, physical, and biological
		systems. Students apply statistics and data analysis to understand systems and
		predict behavior, and they compare models to complex, real data. Students create
		simulations to communicate central ideas in the physical, biological, and social
		sciences and deepen their understanding of concepts in discrete math and
		computer science. This course emphasizes collaboration, professional writing, and
Simulation and Modeling (SAM)	41030	the scientific method.
		Al students will develop artificially intelligent systems that create solutions to real
		problems found in science and industry. Students analyze problems for
		computational difficulty and analyze solutions for computational efficiency.
		Students engage in a wide array of applications, including automated vehicles and
Artificial Intelligence (AI)	41034	computer vision.
8 9 9 9		This course introduces the tools and concepts of cybersecurity and encourages
		students to create solutions that allow people to share computing resources while
		protecting privacy. Nationally, computational resources are vulnerable and
		frequently attacked; in this course, students solve problems by understanding and
		closing these vulnerabilities. This course raises students' knowledge of and
		commitment to ethical computing behavior. It also aims to develop students' skills
		, -
		as consumers, friends, citizens, and employees who can effectively contribute to
Colorana società (CEC)	44026	communities with a dependable cyber-infrastructure that moves and processes
Cybersecurity (SEC)	41036	information safely.
		Computational Problem Solving offers students the opportunity to work in a team
		to deliver a software solution to a real-world design problem. Teams start by
		defining problems, which might originate from CPS students, community, or
		industry clients, or students in other problem-based courses, and use the Agile
		design process to develop a software solution. Effective practices in problem
		solving, documentation, software development, presentation, and collaboration
Computational Problem Solving (CPS)	41037	are central to the course.
		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
Intro to Government and Public		problem solving, analyzing leadership roles and identifying leadership
Administration	43001	opportunities within the school.
		This course will look at meeting the needs of the U.S. culture through positions
		within Government and Public Administration. Topics will include the role of
		government in providing services for the US population, the impact of the US on
		other nations as well as the impact of other nations on the US, and the professional
Government and Public Administration		traits required of those in this field. In addition, it will look at the problem solving
Fundamentals	43105	and critical thinking processes, and leadership and teamwork practices.
	10100	and antical annual of processes, and readership and team to the processes.

		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 and Public Relations	43115	media.
		This course applies the skills needed in government and public administration
		professions. It includes the application of leadership and teamwork within the
		classroom or as an intern at a work location. Topics may include working with
		budgets, negotiation/communication with co-workers, developing proposals,
		making oral presentations and making informed decisions to meet an identified
Governance Applications	43250	need.
		An introductory course designed to provide students with knowledge of
		occupations available in the Law, Public Safety and Security fields and introduce
Intro to LPSS	44001	them to the legal system, professional conduct, safety, and types of crime.
		An introductory level course designed to provide students with knowledge of the
		history of modern emergency medical services in the United States and how those
History of Emergency Medical Services	44005	services have progressed and changed over time.
		A technical level course designed to provide students with the knowledge needed
		to perform the written and other communication duties associated with careers in
IT in Service Professions	44010	LPSS.
		A technical level course designed to instruct students in the requirements and skills
		to obtain national certifications for First Aid, CPR and Emergency Medical
First Aid/CPR/EMR	44050	Responder.
		A technical level course designed to provide students with basic knowledge and
		skills needed to pursue postsecondary training the Emergency Medical field (ie.,
EMT-Bridge	44055	EMT, Paramedic).
		A technical level course designed to provide skills and knowledge necessary to sit
		for the EMT certification test. Course is taught by a certified EMT instructor and
EMT	44060	follows competencies set forth by the certifying agency.
		The first of two courses designed to provide students with the knowledge and skills
Fire Science I	44100	to obtain a Fire Fighter I national certification.
		The second of two courses designed to provide students with the knowledge and
Fire Science II	44101	skills to obtain a Fire Fighter I national certification.
		The first of two courses designed to provide students with the skills and knowledge
Law Enforcement I	44200	necessary to obtain entrance to the Law Enforcement or Highway patrol Academy.
		The second of two courses designed to provide students with the skills and
		knowledge necessary to obtain entrance to the Law Enforcement or Highway
Law Enforcement II	44201	Patrol Academy.
Coulting I Book and a Ciff	44240	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 the
Corrections Officer	44215	local, state and/or federal detention system.
		This course will study the basic legal principles common to a broad base of everyday business activities and will provide practical law information necessary to
		develop problem-solving skills in our legal society. Topics include, but are not
		limited to, criminal law, juvenile law, torts, family law, discrimination, writing a
Practical Law	44300	brief and employee rights.
		This course helps students understand why we live under the rule of law, and how laws are created, enforced, interpreted, and changed. The course enables students to examine diverse areas of law, including criminal, civil, constitutional, and
		international. It also explores civil rights issues and the role of advocacy, civics, and
Foundations in Law	44305	the media in our legal system.
		This is an application course in which students will demonstrate technical skills
		related to careers in the legal and judicial field, and analyze the impact of legal and
Youth Court	44310	judicial careers on community
		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
Introduction to Family and Consumer Science	45001	director, food service provider, restaurant manager, culinary artists, interior/textile
Introduction to Family and Consumer Science	45001	designer, event planner and family and consumer sciences teacher.
		Human Growth and Development A provide students with knowledge about the physical, mental, emotional, and social growth and development of humans from
		conception to old age, with a special emphasis on birth through school age. Course
		content will provide an overview of life stages, with a strong tie to prenatal and
		birth processes; fundamentals of children's emotional and physical development;
Human Growth and Development A	45004	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 teen
Human Growth and Development B	45014	years, adulthood and later years.