

Kansas Board of Regents Precollege Curriculum Courses Approved for University Admissions

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

Course Title	Course Code	Course Subject Area	Course Description
			Strategic Reading courses are intended to improve a student's vocabulary, critical-thinking and analysis skills, or reading rate and comprehension level. Although these courses typically emphasize works of fiction, they may also include works of nonfiction (including textbooks). Strategic Reading courses often have a time-management focus, offering strategies for note-taking or for understanding and
Strategic Reading	01066	01	evaluating the important points of a text. Courses in Literature—Independent Study, often conducted with instructors as mentors, enable students to explore topics of interest related to literature. 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
Literature—Independent Study	01097	01	advanced skills. Literature—Workplace Experience courses provide work experience in a field related to English literature. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding
Literature—Workplace Experience	01098	01	experiences that students encounter in the workplace.
Literature—Other	01099	01	Other Literature courses. Composition—Independent study, often conducted with instructors as mentors, allow students to explore particular topics within the field of language arts (emphasizing composition). 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
Composition—Independent Study	01147	01	more advanced skills.

Composition—Workplace Experience Composition—Other	01148 01149	01 01	Composition—Workplace Experience courses provide work experience in a field related to English composition. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace. Other Composition courses.
Forensic Speech—Inclusive	01152	01	Forensic Speech—Inclusive courses offer students the opportunity to learn how to use oral skills effectively in formal and informal situations. Students learn such skills as logic and reasoning, the organization of thought and supporting materials, and effective presentation of one's voice and body. Often linked to an extracurricular program, these courses introduce students to numerous public speaking situations, and they learn the methods, aims, and styles of a variety of events (e.g., formal debate, Lincoln-Douglas debate, expository speaking, radio broadcast, oral interpretation, and dramatic interpretation). Participation in competition is encouraged, but not always required.
Forensic Speech—Debate	01153	01	Forensic Speech—Debate courses offer students the opportunity to learn how to use oral skills in formal and informal situations. In these courses, students are able to develop such skills as logic and reasoning, research and analysis, organization of thought and supporting materials, argumentative style and skill, and effective presentation of one's voice and body. Often linked to an extracurricular program, these courses introduce students to the methods, aims, and styles used in various kinds of debates (formal debate or Lincoln-Douglas). Participation in competition is encouraged, but not always required.

			Forensic Speech—Individual Event courses offer students the opportunity to learn how to use oral skills in formal and informal situations. Topics included depend upon the event(s) being taught, but they usually emphasize effective presentation of one's voice and body, thoughtful understanding and interpretation of literature, logic and reasoning, and the organization of thought and supporting materials. Often linked to an extracurricular program, these courses introduce students to one or several individual event categories (e.g., exposition, oral interpretation, dramatic interpretation, and radio broadcast).
Forensic Speech—Individual Event	01154	01	Participation in competition is encouraged, but not always required.
Communications	01155	01	Communications courses focus on the application of written and oral communication skills through a variety of formal and informal experiences. The courses are performance-based and emphasize effective interpersonal and team-building skills. Communications courses may also involve the study of how interpersonal communications are affected by stereotypes, nonverbal cues, vocabulary, and stylistic choices.
Communications	01133	01	vocabulary, and stylistic enoices.
Applied English and Communications	01156	01	Applied English and Communications courses teach students communication skills—reading, writing, listening, speaking—concentrating on "real-world" applications. These courses usually emphasize the practical application of communication as a business tool—using technical reports and manuals, business letters, resumes, and applications as examples—rather than emphasize language arts skills as applied to scholarly and literary materials.
Applica English and communications	01130	01	English Language and Literature—Independent study courses, often
			conducted with instructors as mentors, allow students to explore particular topics within the field of language arts (emphasizing speech). Independent Study courses may serve as an opportunity for students to expand their expertise in a particular application, to explore a topic in
Speech—Independent Study	01197	01	greater detail, or to develop more advanced skills.

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Speech—Workplace Experience Speech—Other	01198 01199	01	Speech—Workplace Experience courses provide work experience in a field related to public speaking and speech. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace. Other Speech courses.
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Transition Algebra	02055	02	Transition Algebra courses review and extend algebra and geometry concepts for students who have already taken Algebra I and Geometry. Transition Algebra courses include a review of such topics as properties and operations of real numbers; evaluation of rational algebraic expressions; solutions and graphs of first degree equations and inequalities; translation of word problems into equations; operations with and factoring of polynomials; simple quadratics; properties of plane and solid figures; rules of congruence and similarity; coordinate geometry including lines, segments, and circles in the coordinate plane; and angle measurement in triangles including trigonometric ratios. These courses examine a specific topic in algebra, such as linear
			equations or rational numbers, rather than provide an overview of
Particular Topics in Algebra	02058	02	algebra concepts.
Algebra—Other	02069	02	Other Algebra courses.
			Informal Geometry courses emphasize a practical approach to the study
			of geometry and deemphasize an abstract, formal approach. Topics
			typically include properties of and work with plane and solid figures;
			inductive methods of reasoning and use of logic; concepts of
			congruence, similarity, parallelism, perpendicularity, and proportion;
Informal Geometry	02071	02	and rules of angle measurement in triangles.

		Principles of Algebra and Geometry courses combine the study of some
		pre-algebra and algebra topics with introductory geometry topics.
		These courses include the study of formulas, algebraic expressions, first
		degree equations and inequalities, the rectangular coordinate system,
		area, perimeter, and volume of geometric figures, and properties of
02074	02	triangles and circles.
		These courses examine specific topics in geometry, such as solid or
		technical geometry, rather than provide a general study of the field of
02075	02	geometry.
		General Applied Math courses reinforce general math skills, extend
		these skills to include some pre-algebra and algebra topics, and use
		these skills in a variety of practical, consumer, business, and
		occupational applications. Course topics typically include rational
		numbers, measurement, basic statistics, ratio and proportion, basic
02151	02	geometry, formulas, and simple equations.
		Occupationally Applied Math courses reinforce general math skills,
		extend these skills to include some pre-algebra and algebra topics, and
		use these skills primarily in occupational applications. Course topics
		typically include rational numbers, measurement, basic statistics, ratio
02152	02	and proportion, basic geometry, formulas, and simple equations.
		Technical Math courses extend students' proficiency in mathematics,
		and often apply these skills to technical and/or industrial situations and
		problems. Technical Math topics may include but are not limited to
		rational numbers, systems of measurements, tolerances, numerical
		languages, geometry, algebra, statistics, and using tables, graphs,
02153	02	charts, and other data displays. Technology is integrated as appropriate.
	02075	02075 02

Business Math	02154	02	Business Math courses reinforce general math skills, emphasize speed and accuracy in computations, and use these skills in a variety of business applications. Business Math courses reinforce general math topics (e.g., arithmetic, measurement, statistics, ratio and proportion, exponents, formulas, and simple equations) by applying these skills to business problems and situations; applications might include wages, hourly rates, payroll deductions, sales, receipts, accounts payable and receivable, financial reports, discounts, and interest.
BUSITIESS IVIALIT	02154	02	•
			Consumer Math courses reinforce general math topics (such as
			arithmetic using rational numbers, measurement, ratio and proportion,
			and basic statistics) and apply these skills to consumer problems and
			situations. Applications typically include budgeting, taxation, credit,
			banking services, insurance, buying and selling products and services,
			home and/or car ownership and rental, managing personal income, and
Consumer Math	02157	02	investment.
			Mathematics—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics of interest
			related to mathematics. 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
Mathematics—Independent Study	02297	02	advanced skills.
			History of Math courses include a study of the historical development
			of numbers, computation, algebra, and geometry. Figures critical to the
			development of mathematics (e.g., Pythagoras, Pascal, Descartes) or
			important developments (e.g., pi, decimal fractions, probability theory,
History of Math	02991	02	calculus) often form the backbone of these classes.
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			Mathematics—Workplace Experience courses provide students with
			work experience in a field related to mathematics. Goals are typically
			set cooperatively by the student, teacher, and employer (although
			students are not necessarily paid). These courses may include
			classroom activities as well, involving further study of the field or
			discussion regarding experiences that students encounter in the
Mathematics—Workplace Experience	02998	02	workplace.
Mathematics—Other	02999	02	Other Mathematics courses.
			Physical Geography courses equip students with an understanding of
			the constraints and possibilities that the physical environment places
			on human development. These courses include discussion of the
			physical landscape through geomorphology and topography, the
Physical Geography	03007	03	patterns and processes of climate and weather, and natural resources.
Friysical Geography	03007	03	· · · · · · · · · · · · · · · · · · ·
			These courses provide students with a basic understanding of living
			things. Topics covered may include ecology and environmental
			problems such as overpopulation and pollution as well as cells, types of
Concepual Biology	03062	03	organisms, evolutionary behavior, and inheritance.
			Particular Topics in Biology courses concentrate on a particular subtopic
			within the field of biology (such as botany, zoology, genetics, and so on)
Particular Topics in Biology	03063	03	that is not otherwise described within this classification system.
			Biology—Independent Study courses, often conducted with instructors
			as mentors, enable students to explore scientific topics of interest,
			using advanced methods of scientific inquiry and experimentation.
			These courses may be offered in conjunction with other rigorous
			science courses or may serve as an opportunity for students to explore
Biology—Independent Study	03097	03	a topic of special interest.
			Biology—Workplace Experience courses provide work experience in a
			field related to biology. Goals are typically set cooperatively by the
			student, teacher, and employer (although students are not necessarily
			paid). These courses may include classroom activities as well, involving
			further study of the field or discussion regarding experiences that
Biology—Workplace Experience	03098	03	students encounter in the workplace.
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Biology—Other	03099	03	Other Biology courses.
			Conceptual Chemistry courses are practical, nonquantitative chemistry
			courses designed for students who desire an understanding of chemical
Concepual Chemistry	03105	03	concepts and applications.
			Particular Topics in Chemistry courses concentrate on a particular
			subtopic within the field of chemistry (such as chromatography and
			spectrometry) that is not otherwise described in this classification
Particular Topics in Chemistry	03108	03	system.
			Chemistry—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore scientific topics of
			interest, using advanced methods of scientific inquiry and
			experimentation. These courses may be offered in conjunction with
			other rigorous science courses or may serve as an opportunity to
Chemistry—Independent Study	03147	03	explore a topic of special interest.
			Chemistry—Workplace Experience courses provide work experience in
			a field related to chemistry. Goals are typically set cooperatively by the
			student, teacher, and employer (although students are not necessarily
			paid). These courses may include classroom activities as well, involving
			further study of the field or discussion regarding experiences that
Chemistry—Workplace Experience	03148	03	students encounter in the workplace.
Chemistry—Other	03149	03	Other Chemistry courses.
			Conceptual Physics courses introduce students to the use of chemicals,
			characteristic properties of materials, and simple mechanics to better
			describe the world and nonliving matter. The courses emphasize
			precise measurements and descriptive analysis of experimental results.
			Topics covered may include energy and motion, electricity, magnetism,
			heat, the structure of matter, and how matter reacts to materials and
Conceptual Physics	03161	03	forces.
			Particular Topics in Physics courses concentrate on a particular subtopic
			within the field of physics (such as optics, thermodynamics, quantum
			physics, and so on) that is not otherwise described in this classification
Particular Topics in Physics	03162	03	system.

Physics—Independent Study	03197	03	Physics—Independent Study courses, often conducted with instructors as mentors, enable students to explore scientific topics of interest, using advanced methods of scientific inquiry and experimentation. These courses may be offered in conjunction with other rigorous science courses or may provide students with an opportunity to explore a topic of special interest. Physics—Workplace Experience courses provide work experience in a field related to physics. Goals are typically set cooperatively by the
			student, teacher, and employer (although students are not necessarily
			paid). These courses may include classroom activities as well, involving
	00400		further study of the field or discussion regarding experiences that
Physics—Workplace Experience	03198	03	students encounter in the workplace.
Physics—Other	03199	03	Other Physics courses.
			Unified Science courses combine more than one branch of science into a cohesive study or may integrate science with another discipline. General scientific concepts are explored, as are the principles
Unified Science	03202	03	underlying the scientific method and experimentation techniques.
			Applied Biology/Chemistry courses integrate biology and chemistry into a unified domain of study and present the resulting body of knowledge in the context of work, home, society, and the environment, emphasizing field and laboratory activities. Topics include natural resources, water, air and other gases, nutrition, disease and wellness, plant growth and reproduction, life processes, microorganisms, synthetic materials, waste and waste management, and the community
Applied Biology/Chemistry	03203	03	of life.
Technological Inquiry	03204	03	Technological Inquiry courses provide students with an understanding of the use of process skills as an integral part of scientific activity and technological development. Students learn how scientific phenomena are explained, measured, predicted, organized, and communicated.
recimological inquiry	03204	UJ	are explained, measured, predicted, organized, and communicated.

			Origins of Science courses explore the body of scientific knowledge and
			discoveries from an historical perspective, wherein students gain an
			understanding of how one discovery led to others or to entire
0 (6			revolutions of thought. In these courses, original experiments may be
Origins of Science	03205	03	replicated, and students may study primary materials.
			Science, Technology, and Society courses encourage students to
			explore and understand the ways in which science and technology
			shape culture, values, and institutions and how such factors, in turn,
			shape science and technology. Topics covered may include how science
			and technology enter society and how they change as a result of social
Science, Technology and Society	03210	03	processes.
			Technical Science courses introduce students to scientific tools and
			methods and provide an introduction to chemistry and physics. Topics
			covered typically include measurement conversion, model creation, use
			of scientific methods, interpretation of atoms, identification of the
			properties of common compounds, analysis of chemical equations, the
			impact of force on linear motion, and the study of various physical
Technical Science	03211	03	phenomena and forms of energy.
			Life and Physical Sciences—Independent Study courses, often
			conducted with instructors as mentors, enable students to explore
			scientific topics of interest, using advanced methods of scientific inquiry
			and experimentation. These courses may be offered in conjunction with
			other rigorous science courses or may serve as an opportunity to
Life and Physical Sciences—Independent Study	03997	03	explore a topic of special interest.
			Life and Physical Sciences—Workplace Experience courses provide work
			experience in a field related to life and/or physical science. Goals are
			typically set cooperatively by the student, teacher, and employer
			(although students are not necessarily paid). These courses may include
			classroom activities as well, involving further study of the field or
			discussion regarding experiences that students encounter in the
Life and Physical Sciences—Workplace Experience	03998	03	workplace.
Life and Physical Sciences—Other	03999	03	Other Life and Physical Sciences courses.

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			Geography—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics of interest
			within geography. Independent Study courses may provide students
			with an opportunity to expand their expertise in a particular
			specialization, to explore a topic of special interest, or to develop more
Geography—Independent Study	04047	04	advanced skills.
			Geography—Workplace Experience courses provide work experience in
			a field related to geography. Goals are typically set cooperatively by the
			student, teacher, and employer (although students are not necessarily
			paid). These courses may include classroom activities as well, involving
			further study of the field or discussion regarding experiences that
Geography—Workplace Experience	04048	04	students encounter in the workplace.
Geography—Other	04049	04	Other Geography courses.
			Western Civilization courses apply an interdisciplinary approach to the
			study of western cultural traditions, frequently using a chronological
			framework. Course content typically includes a survey of the major
			developments in and contributors to art and architecture, literature,
			religion and philosophy, and culture. These courses may also cover
Western Civilization	04063	04	intellectual and political movements.
			These courses examine particular topics in world history other than
Particular Topics in World History	04065	04	those already described.
			World History—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics of interest
			within world history. Independent Study courses may provide students
			with an opportunity to expand their expertise in a particular period or
			area, to explore a topic of special interest, or to develop more
World History—Independent Study	04097	04	advanced skills.
			World History—Workplace Experience courses provide work experience
			in a field related to world history. Goals are typically set cooperatively
			by the student, teacher, and employer (although students are not
			necessarily paid). These courses may include classroom activities as
			well, involving further study of the field or discussion regarding
World History—Workplace Experience	04098	04	experiences that students encounter in the workplace.
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World History—Other	04099	04	Other World History courses.
U.S. History—Workplace Experience	04148	04	U.S. History—Workplace Experience courses provide work experience in a field related to U.S. history. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.
,			Environmental Law courses present a history and philosophy of law and the legal system in the United States, with a particular emphasis on those topics affecting environmental issues, chemical usage, management, cleanup, disposal, and the exposure and legal responsibilities of those workers engaged in associated occupations. Such topics may include contracts, property rights, employer/employee relationships, liability, and constitutional rights and responsibilities with
Environmental Law	04170	04	particular attention paid to conservation and environmental issues.
			Government, Politics, and Law—Independent Study courses, often conducted with instructors as mentors, enable students to explore topics of interest within one of the fields of Government, Politics, and Law. These courses may provide students with an opportunity to expand their expertise in a particular specialization, to explore a topic
Government, Politics and Law—Independent Study	04197	04	of special interest, or to develop more advanced skills.
			Government, Politics, and Law—Workplace Experience courses provide students with work experience in a field related government, politics, and/or law. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students
Government, Politics and Law—Workplace Experience	04198	04	encounter in the workplace.
Government, Politics and Law—Other	04199	04	Other Government, Politics and Law courses.

			Economics—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics of interest
			within the field of economics. Independent Study courses may provide
			students with an opportunity to expand their expertise in a particular
			specialization, to explore a topic of special interest, or to develop more
Economics—Independent Study	04247	04	advanced skills.
			Economics—Workplace Experience courses provide work experience in
			a field related to economics. Goals are typically set cooperatively by the
			student, teacher, and employer (although students are not necessarily
			paid). These courses may include classroom activities as well, involving
			further study of the field or discussion regarding experiences that
Economics—Workplace Experience	04248	04	students encounter in the workplace.
Economics—Other	04249	04	Other Economics courses.
			Social Science courses provide students with an introduction to the
			various disciplines in the social sciences, including anthropology,
			economics, geography, history, political science, psychology, and
			sociology. Typically, these courses emphasize the methodologies of the
Social Science	04260	04	social sciences and the differences among the various disciplines.
			Social Science Research courses emphasize the methods of social
Social Science Research	04261	04	science research, including statistics and experimental design.
			IB Organization Studies courses prepare students to take the
			International Baccalaureate Organization Studies exams at either the
			Subsidiary or Higher levels. These IB courses provide a broad
			introduction to the principles and practices of enterprises engaged in
			producing, distributing, and exchanging goods and services in a variety
			of economic frameworks. A sample of topics explored within these
			courses include management styles and structures; decision-making
IB Organizational Studies	04262	04	methods; and methods for accounting, planning, and communication.

			Social Sciences—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics of interest
			within one of the social science fields. Independent Study courses may
			provide students with an opportunity to expand their expertise in a
			particular specialization, to explore a topic of special interest, or to
Social Sciences—Independent Study	04297	04	develop more advanced skills.
,			Social Sciences—Workplace Experience courses provide work
			experience in a field related to the social sciences. Goals are typically
			set cooperatively by the student, teacher, and employer (although
			students are not necessarily paid). These courses may include
			classroom activities as well, involving further study of the field or
			discussion regarding experiences that students encounter in the
Social Sciences—Workplace Experience	04298	04	workplace.
Social Sciences—Other	04299	04	Other Social Studies courses.
			Obligatory for every International Baccalaureate degree candidate, IB
			Theory of Knowledge courses aim to stimulate critical self-reflection of
			students' knowledge and experiences. Course content generates
			questions regarding the bases of knowledge and their verification in the
			disciplines of mathematics, natural sciences, human sciences, and
			history, with an awareness of moral, political, and aesthetic judgments
			and biases. Students learn to appreciate the strengths and limitations of
			various kinds of knowledge; to relate studied subjects to one another,
			general knowledge, and living experiences; to formulate rational
			arguments; and to evaluate the role of language in knowledge and as a
IB Theory of Knowledge	04304	04	way to convey knowledge.
			Social Studies courses enable students to study a group of related
			subjects addressing the elements and structures of human society that
			may include economics, geography, history, citizenship, and other social
Social Studies	04305	04	studies-related disciplines.
			Philosophy courses introduce students to the discipline of philosophy as
			a way to analyze the principles underlying conduct, thought,
			knowledge, and the nature of the universe. Course content typically
Philosophy	04306	04	includes examination of the major philosophers and their writings.

			These courses examine a particular topic in philosophy, such as
			aesthetic judgment, ethics, cosmology, or the philosophy of knowledge,
Particular Topics in Philosophy	04307	04	rather than providing a more general overview of the subject.
			Modern Intellectual History courses provide a historical overview of
			modern intellectual movements, generally drawing from different
Modern Intellectual History	04308	04	disciplines such as political science, economics, and philosophy.
,			IB Philosophy courses prepare students to take the International
			Baccalaureate Philosophy exams at either the Subsidiary or Higher
			levels. These courses challenge students to reflect upon and question
			the bases of knowledge and experience, to develop a personal mode of
			thought, to formulate rational arguments, and to use language to
			examine several conceptual themes in a thoughtful, philosophical
IB Philosophy	04309	04	manner.
			These courses cover particular topics in humanities such as the
			interrelationships among painting, sculpture, architecture, and music or
			the exploration of a particular time period rather than provide a general
Particular Topics in Humanities	04310	04	overview of the subject.
			Humanities—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics of interest
			within the field of humanities. Independent Study courses may provide
			students with an opportunity to expand their expertise in a particular
			specialization, to explore a topic of special interest, or to develop more
Humanities—Independent Study	04347	04	advanced skills.
			Humanities—Workplace Experience courses provide work experience in
			a field related to humanities. Goals are typically set cooperatively by
			the student, teacher, and employer (although students are not
			necessarily paid). These courses may include classroom activities as
			well, involving further study of the field or discussion regarding
Humanities—Workplace Experience	04348	04	experiences that students encounter in the workplace.
Humanities—Other	04349	04	Other Humanities courses.

			Social Sciences and History—Independent Study courses, often
			conducted with instructors as mentors, enable students to explore
			topics of interest within one of the fields of social studies. These
			courses provide students with an opportunity to expand their expertise
			in a particular specialization, to explore a topic of special interest, or to
Social Sciences and History—Independent Study	04997	04	develop more advanced skills.
			Social Sciences and History—Workplace Experience courses provide
			work experience in a field related to social sciences and/or history.
			Goals are typically set cooperatively by the student, teacher, and
			employer (although students are not necessarily paid). These courses
			may include classroom activities as well, involving further study of the
			field or discussion regarding experiences that students encounter in the
Social Sciences and History—Workplace Experience	04998	04	workplace.
Social Sciences and History—Other	04999	04	Other Social Sciences and History courses.
			Physical Education courses provide students with knowledge,
			experience, and an opportunity to develop skills in more than one of
			the following sports or activities: team sports, individual/dual sports,
Physical Education	08001	08	recreational sports, and fitness/conditioning activities.
			Team Sports courses provide students with knowledge, experience, and
			an opportunity to develop skills in more than one team sport (such as
Team Sports	08002	08	volleyball, basketball, soccer, and so on).
			Individual/Dual Sports courses provide students with knowledge,
			experience, and an opportunity to develop skills in more than one
			individual or dual sport (such as tennis, golf, badminton,
Individual/Dual Sports	08003	08	jogging/running, racquetball, and so on).
			Recreation Sports courses provide students with knowledge,
			experience, and an opportunity to develop skills in more than one
			recreational sport or outdoor pursuit (such as adventure activities,
			croquet, Frisbee, wall climbing, bocce ball, fishing, hiking, cycling, and
Recreation Sports	08004	08	so on).
			Fitness/Conditioning Activities courses emphasize conditioning
			activities that help develop muscular strength, flexibility, and
Fitness/Conditioning Activities	08005	08	cardiovascular fitness.

			Corps Movement courses emphasize physical conditioning,
			fundamentals of movement, group precision, and public performance.
			The courses may be intended for members of various teams, including
Corps Movement	08006	08	flag corps, rifle corps, cheerleading squads, and so on.
			These courses provide physical education activities (sports, fitness, and
Adapted Physical Education	08007	80	conditioning) adapted for students with special needs.
			Gymnastics courses are designed to help students develop knowledge
			and skills in gymnastics, stunts, and tumbling while emphasizing safety.
			Floor gymnastics may be supplemented by the use of gymnastic
			equipment such as balance beam, uneven bars, parallel bars, rings, and
			so on. Gymnastic courses may include other components such as the
Gymnastics	08008	80	history of gymnastics and conditioning.
			Weight Training courses help students develop knowledge and skills
			with free weights and universal stations while emphasizing safety and
			proper body positioning; they may include other components such as
Weight Training	08009	08	anatomy and conditioning.
			Aquatic/Water Sports courses help students develop skills useful or
			necessary in an aquatic environment. They may focus on swimming and
			competitive strokes, such as freestyle, breaststroke, butterfly, and so
			on or may involve team-oriented water sports, such as water polo and
			relay swimming. These courses may also include (or concentrate
Aquatics/Water Sports	08010	80	exclusively on) diving and/or lifesaving skills.
			Tennis courses help students develop knowledge, skills, and abilities
			related to the sport of singles or doubles tennis, including shots (such as
			serves, forehand strokes, backhand strokes, and lobs), scoring, and
Tennis	08011	80	strategy.
			Self-defense courses help students develop knowledge, skills, and
			abilities to defend themselves against attack by others, usually
			incorporating traditional self-defense methods. Students may also be
			taught techniques from martial arts, addressing the differences among
Self-defense	08012	08	those arts and their contribution to defense and sport.

			Courses in Specific Sports Activities help students develop knowledge,
			experience, and skills in a single sport or activity (such as basketball,
			volleyball, track and field, and equestrian events) other than those
			coded within this section. (Dance is included under the Fine and
Specific Sports Activities	08013	08	Performing Arts subject area.)
The state of the s			These courses award physical education credit for other at-school
			activities, such as marching band or cheerleading. (Dance is included
Physical Education Equivalent	08014	08	under the Fine and Performing Arts subject area.)
			These courses award physical education credit for off-campus sports
			activities such as swimming or weight training courses taken at a
Off-Campus Sports	08015	08	community center or community college.
· ·			These courses emphasize acquiring knowledge and skills regarding
			lifetime physical fitness; content may include related topics such as
			nutrition, stress management, and consumer issues. Students may
Lifetime Fitness Education	08016	08	develop and implement a personal fitness plan.
			Courses in Sports Physiology examine human anatomy and physiology
			as they pertain to human movement and physical performance in
			sports activities. These courses may also emphasize the prevention and
Sports Physiology	08017	08	treatment of athletic injuries.
			Courses in Physical Education—Independent Study, often conducted
			with instructors as mentors, enable students to explore topics of
			interest related to physical education. Independent Study courses may
			serve as an opportunity for students to expand their expertise in a
			particular sport or activity, to explore a topic in greater detail, or to
Physical Education—Independent Study	08047	08	develop more advanced skills.
			Physical Education—Workplace Experience courses provide work
			experience in a field related to physical education. Goals are typically
			set cooperatively by the student, teacher, and employer (although
			students are not necessarily paid). These courses may include
			1
			classroom activities as well, involving further study of the field or
Physical Education—Workplace Experience	08048 08049	08	1

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			Topics covered within Health Education courses may vary widely, but
			typically include personal health (nutrition, mental health and stress
			management, drug/alcohol abuse prevention, disease prevention, and
			first aid) and consumer health issues. The courses may also include brief
			studies of environmental health, personal development, and/or
Health Education	08051	08	community resources.
			Health and Fitness sources combine the tenies of Health Education
			Health and Fitness courses combine the topics of Health Education
			courses (nutrition, stress management, substance abuse prevention,
			disease prevention, first aid, and so on) with an active fitness
			component (typically including aerobic activity and fitness circuits) with
Health and Fitness	08052	08	the intention of conveying the importance of life-long wellness habits.
			Community Health courses cover not only personal health topics
			(nutrition, stress management, substance abuse prevention, disease
			prevention, first aid, and so on), but also more general health issues.
			These additional topics may include (among others) available
			community resources, fundamentals of the nation's health care system,
			contemporary world health issues, and career options within the health
Community Health	08053	08	field.
			Special Needs Health Education courses focus on the health
			requirements of individuals with special needs and emphasize meeting
			those needs within the home setting. These courses provide
			information regarding the elderly and individuals with disabilities,
			handicaps, and/or debilitating illnesses, along with strategies to prepare
Special Needs Health Education	08054	80	students for their possible roles as caretakers.
			Safety and First Aid courses provide specialized instruction in first aid
			techniques, cardiopulmonary resuscitation (CPR), relief of obstructed
			airways, and general safety procedures and behaviors. These courses
			may include such topics as an overview of community agencies and
			hotlines providing emergency care and information and opportunities
Safety and First Aid	08055	08	for first aid and CPR certification.

Parenting Teens courses cover a wide range of both health and parenting issues, typically including prenatal and postnatal care, health and well-being of young pernatal, child development, stress management, and parental/adult roles. The courses may also involve academic assistance, career exploration, financial management, and so on. Health and Life Management courses focus as much on consumer education topics (such as money management and evaluation of consumer information and evaluation) as on personal health topics (such as nutrition, stress management, drug/alcohol abuse prevention, disease prevention, and first aid). Course objectives include helping students develop decision-making, communication, interpersonal, and coping skills and strategies. Substance Abuse Prevention courses focus specifically on the health risks of drugs, alcohol and tobacco. These courses provide information on the negative consequences of these products and teach students coping strategies to resist the influences (such as peers and media images) that may entice them to use these substances. Students may ubstance Abuse Prevention 08058 08 also explore the community resources available to them. Courses in Health Education—Independent Study, often conducted with instructors as mentors, enable students to explore topics of interest related to health and health education. Independent Study courses may provide students with opportunity to expand expertise in a particular application, to explore a topic of special interest in greater detail, or to develop more advanced skills. Health Education—Workplace Experience courses provide work experience in a field related to health education. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences encountered in the workplace.				
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				activities as well, involving further study of the field or discussion
ealth Education—Other 08099 08 Other Health Education courses.	Health Education—Workplace Experience	08098	08	regarding experiences encountered in the workplace.
	Health Education—Other	08099	08	Other Health Education courses.

			Dhysical Education / Loolth / Drivers/ Education courses combine a respect
			Physical Education/Health/Drivers' Education courses combine a range
			of activities and topics involving physical skills, human health issues,
			and safe driving. They are offered in ways that cover two or three of
			these areas. The physical education portion of these courses draws on
			team, individual, dual, recreational, and/or conditioning activities. The
			human health portion typically covers issues such as nutrition, stress
			management, drug/alcohol abuse prevention, and first aid. The drivers'
			education portion usually includes legal obligations and responsibilities,
			rules of the road and traffic procedures, safe driving strategies, and
Physical Education/Health/Drivers' Education	08201	80	related topics.
			Courses in Physical, Health, and Safety Education—Independent Study,
			often conducted with instructors as mentors, enable students to
			explore topics of interest related to physical, health, and safety
			education. Independent Study courses may serve as an opportunity for
			students to expand their expertise in a particular application, to explore
Physical, Health, and Safety Education—Independent			a topic in greater detail, or to develop more advanced physical, health
Study	08997	08	and/or safety skills.
			Physical, Health, and Safety Education—Workplace Experience courses
			provide work experience in a field related to physical, health, and safety
			education. Goals are typically set cooperatively by the student, teacher,
			and employer (although students are not necessarily paid). These
			courses may include classroom activities as well, involving further study
Physical, Health, and Safety Education—Workplace			of the field or discussion regarding experiences that students encounter
Experience	08998	08	in the workplace.
Physical, Health, and Safety Education—Other	08999	08	Other Physical, Health, and Safety Education courses.
			Introduction to Junior Reserve Officer Training Corps (ROTC) courses
			introduce students to the purposes and objectives of the Reserve
			Officer Training Corps program, which seeks to educate high school
			students in citizenship, promote community service, and instill
			responsibility. As part of that introduction, course topics typically
			include a brief history of the military branches in the United States and
Introduction to Jr. ROTC	09001	09	the basics of military drill, ceremony, and rank structure.

			<u> </u>
			Although individual course sequences may vary, the primary objectives of Military Junior Reserve Officer Training Corps (ROTC) courses are to provide students with instruction in the history, organization, role, objectives, and achievements of a particular branch of the U.S. Armed Forces; help them develop personal fitness, strong character, and leadership qualities; and expose them to the career opportunities provided by the U.S. Armed Services. These courses typically cover such topics as military customs, courtesies, rank, drill, and ceremonies and also emphasize citizenship and scholarship. The course content typically includes subjects related to the particular branch being studied (such as map-reading, nautical skills, aerospace technology, or communication technologies), as well as more general subjects (international law,
Military Jr. ROTC—unspecified branch	09002	09	national defense, celestial navigation, and geopolitical strategy).
ROTC Drill	09003	09	Reserve Officer Training Corps (ROTC) Drill courses provide students with an additional opportunity to improve their skills in military precision. These courses emphasize marching style and formations, firearm manipulation, body coordination and mechanics, and performing as a member of an orchestrated team. Class members typically participate in ceremonies and competitions.
	0000		Military Leadership courses focus solely on increasing students' leadership skills, particularly as they relate to military operations, customs, and hierarchies. These courses are typically a regular part of the ROTC programs described below (typically the final course within a program series); this Military Leadership course code and title should be used when those descriptions do not apply. The principles and skills taught in these courses include supervision, motivation, evaluation, and setting an example, and their application typically include military drill
Military Leadership	09004	09	and inspections, athletic events, and other school activities.

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			Army Junior Reserve Officer Training Corps (ROTC) I courses include
			instruction in the organization and functions of the U.S. Army,
			leadership skills, and life skills education. The content of these courses
			cover (but is not limited to) the history and evolution of the Army,
			including its structure, operations, customs and courtesies; maps and
			navigation; first aid, personal hygiene, and field sanitation; and
			substance abuse prevention. These courses also introduce students to
Army Junior ROTC I	09051	09	principles of leadership and citizenship.
			Army Junior Reserve Officer Training Corps (ROTC) II courses build upon
			the content of Army Junior ROTC I and include (but are not limited to)
			ongoing instruction in leadership principles and citizenship; drill and
			ceremonies; organizational structure; command and staff relationships,
			functions, and responsibilities; significant military campaigns and
			leaders; map-reading and orienteering; weapon safety and
Army Junior ROTC II	09052	09	marksmanship; and survival training.
			Army Junior Reserve Officer Training Corps (ROTC) III courses build
			upon prior Army Junior ROTC courses, giving more emphasis to
			leadership development. These courses serve to strengthen students'
			leadership skills (including planning, problem-solving, motivation, and
			performance appraisal) and management skills (with regard to time,
			personnel, and other resources) through allowing them to assume
			leadership duties. Students study topics introduced in earlier
			years—such as military history, map-reading and orienteering,
			marksmanship, and drill and ceremonies—at a more advanced level and
Army Junior ROTC III	09053	09	are also provided with military service opportunities.
			Army Junior Reserve Officer Training Corps (ROTC) IV courses focus on
			practical leadership by assigning students to command and staff
			positions in which they present instruction to lower Army Junior ROTC
			classes and continue to study and review staff functions and actions,
			staff-commander relationships, and leadership principles. Topics
Army Junior ROTC IV	09054	09	introduced in earlier years may be studied at more advanced levels.

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Naval Junior ROTC I	09101	09	Naval Junior Reserve Officer Training Corps (ROTC) I courses emphasize citizenship and leadership development, as well as maritime heritage, sea power, and Naval operations and customs. These courses include (but are not limited to) an introduction to the Naval Junior ROTC program, U.S. Navy mission and organization, maritime geography, naval history, basic seamanship, oceanography, and health education.
Naval Junior ROTC II	09102	09	Naval Junior Reserve Officer Training Corps (ROTC) II courses build upon the content of Naval Junior ROTC I. These courses include (but are not limited to) leadership principles and discipline, citizenship, naval opportunities and career planning, naval ships and weaponry, seamanship, meteorology and weather, and survival training. Students continue to learn teamwork, naval history, and military principles.
Naval Junior ROTC III	09103	09	Naval Junior Reserve Officer Training Corps (ROTC) III courses build upon prior Naval Junior ROTC courses. These courses include (but are not limited to) leadership principles and discipline, military justice, international law and the sea, naval intelligence/strategies and national security, and sciences involved in naval operations, such as electricity, electronics, communications technologies, and so on. Students continue to learn teamwork, naval history, and military principles.
Naval Junior ROTC IV	09104	09	Naval Junior Reserve Officer Training Corps (ROTC) IV courses are focused on practical leadership, placing students in positions where they can learn, practice, and understand skills involved in leading others, such as supervision, motivation, evaluation, setting examples, and problem-solving. Application of these skills usually includes military drill and inspections, athletic events, and other school activities. Topics introduced in earlier years may be studied at more advanced levels.

		Air Force Junior Reserve Officer Training Corps (ROTC) I courses include
		both aerospace studies and leadership/life skills education. In these
		courses, leadership/life skills lessons cover the heritage and
		development of the Air Force, including its structure, operations,
		customs, and courtesies. Aerospace topics include the development,
		history, and impact of flight; aircraft and spacecraft; and the
09151	09	environment in which these crafts operate.
		Air Force Junior Reserve Officer Training Corps (ROTC) II courses include
		both aerospace studies and leadership/life skills education. In these
		courses, leadership/life skills lessons cover intercommunication skills,
		drill, and military ceremonies. Aerospace topics emphasize the science
		of flight, including factors of aerospace power, aircraft flight, and
09152	09	navigation.
		Air Force Junior Reserve Officer Training Corps (ROTC) III courses
		include both aerospace studies and leadership/life skills education.
		These courses continue to develop students' life and leadership skills
		and the ways in which they apply to military life. Aerospace topics
		emphasize space technology and exploration; examine national defense
		systems; and advance students' knowledge of aviation, propulsion, and
09153	09	navigation.
		Air Force Junior Reserve Officer Training Corps (ROTC) IV courses
		include both aerospace studies and leadership/life skills education. The
		life skills education portion of these courses concentrates on leadership
		and management principles and career opportunities, and aerospace
		topics include advanced aerodynamics and aeronautics. Course content
		may also cover elements of national power and relationships between
09154	09	the nations of the world.
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Marine Corps Junior ROTC I	09201	09	Marine Corps Junior Reserve Officer Training Corps (ROTC) I courses introduce the Marine Corps Junior ROTC program, with an emphasis on personal growth and responsibility along with general military subjects. These courses include (but are not limited to) physical training; health education, including hygiene, first aid, nutrition, and substance abuse prevention; and communication skills. In these courses, students are introduced to and study Marine Corps values and code of conduct; drill and ceremony; military uniforms, customs, and courtesies; military history; and the Marine Corps structure and chain of command. Marine Corps Junior Reserve Officer Training Corps (ROTC) II courses build upon Marine Corps Junior ROTC I. These courses emphasize personal growth and responsibility, leadership, and citizenship along with military subjects that typically include the mission, organization, and history of the Marine Corps; geography, maps, and navigation; drill and ceremony; and military justice. Students learn about such leadership skills as authority, responsibility, and accountability and
Marine Corps Junior ROTC II	09202	09	citizenship topics including U.S. government structures, documents, and symbols.
•			Marine Corps Junior Reserve Officer Training Corps (ROTC) III courses build upon prior Marine Corps Junior ROTC courses. These courses include (but are not limited to) leadership practice, including training, inspection and evaluation; public service career opportunities; and citizenship responsibilities. These courses cover such personal skills as financial planning, saving and investing, and evaluating credit and insurance terms. Students learn about the structures of other armed service branches, advance their mapping and navigation skills, and may study firearm use, safety and marksmanship. Students continue to learn
Marine Corps Junior ROTC III	09203	09	teamwork, Marine Corps history, and military principles.

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			Marine Corps Junior Reserve Officer Training Corps (ROTC) IV courses focus on the practical application of skills learned throughout the program: leadership, communication (written and verbal), personal growth, and public service. These courses emphasize drill and ceremony, physical fitness, marksmanship, land navigation, and military
Marine Corps Junior ROTC IV	09204	09	history at more advanced levels than in previous courses.
			Courses in Military Science—Independent Study, often conducted with instructors/armed services personnel as mentors, enable students to
			explore topics of interest related to military science. 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,
Military Science—Independent Study	09997	09	or to develop more advanced skills.
Military Science—independent Study	03337	03	Military Science—Workplace Experience courses provide students with
			work experience within the field of military science and are supported
			by classroom attendance and discussion. In these courses, goals are set
			for the employment period, and classroom experience may involve
			further study in the field, improvement of employability skills, or
			discussion regarding the experiences and problems that students
Military Science Workplace Experience	09998	09	encounter on the job.
Military Science—Workplace Experience	09999	09	-
Military Science—Other	09999	09	Other Military Sciences courses.
			Introduction to Computer courses introduce students to computers and peripheral devices, the functions and uses of computers, the language used in the computer industry, possible applications of computers, and occupations related to computer hardware and software. These courses typically explore legal and ethical issues associated with computer use, as well as how computers influence modern society. Students may also
Introduction to Computers	10001	10	be required to perform some computer operations.

Computing Systems	10002	10	Computing Systems courses offer a broad exploration of the use of computers in a variety of fields. These courses have a considerable range of content, but typically include the introduction of robotics and control systems, computer-assisted design, computer-aided manufacturing systems, and other computer technologies as they relate to industry applications.
Computer and Information Technology	10003	10	Computer and Information Technology courses teach students to operate and use computer and information technology, emphasizing their role as tools to communicate more effectively, conduct research more efficiently, and increase productivity. Course content includes the legal and ethical issues involved with computer technology and use.
Computer Applications	10004	10	In Computer Applications courses, students acquire knowledge of and experience in the proper and efficient use of previously written software packages. These courses explore a wide range of applications, including (but not limited to) word-processing, spreadsheet, graphics, and database programs, and they may also cover the use of electronic mail and desktop publishing.
Business Computer Applications	10005	10	In Business Computer Applications courses, students acquire knowledge of and experience in the proper and efficient use of previously written software packages, particularly those used in the business world. Generally, these courses explore a wide range of applications, including (but not limited to) word-processing, spreadsheet, graphics, and database programs, and they may also cover topics such as electronic mail, desktop publishing, and telecommunications.

	10006	10	Telecommunications courses address the growth in global communications and the emerging equipment and systems needed to successfully communicate in a global environment. These courses cover such topics as data communication protocol and systems, government regulations of the communications industry, and the use of cost-effective and productive tools to transmit messages and data. In these courses, students may learn about such communication systems as email, internet or ecommerce, LAN, WAN, voice transmission, cell phone
Telecommunications	10006	10	technology, and traditional teleconferencing.
			IB Information Technology in a Global Society courses prepare students
			to take the International Baccalaureate Information Technology exams
			and examine the interaction among information, technology, and society. Course content is designed to help students develop a
			systematic, problemsolving approach to processing and analyzing
			information using a range of information tools. In these courses,
			students also discuss and evaluate how modern information technology
			affects individuals, relationships among people, and institutions and
IB Information Technology in a Global Society	10007	10	societies.
<u> </u>			These courses examine particular topics related to general computer
			literacy other than those already described, such as privacy issues or
Particular Topics in Computer Literacy	10008	10	instruction in using a particular software application.
			New advances in technology offer promise of more efficiency,
			convergence of existing technologies, improved productivity and
			represent progressive development. The degree of impact, status,
			deployment and economic viability affect future opportunities for
			society. This course offers opportunity to learn, utilize, and appreciate
Emerging Technologies-Computing	10040	10	those impacts in future workforce environments.
			Computer Literacy—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore computer-related
			topics of interest. Independent Study courses may serve as an
			opportunity for students to expand their expertise in a particular
			specialization, to explore a topic in greater detail, or to develop more
Computer Literacy—Independent Study	10047	10	advanced skills.

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			Computer Literacy—Workplace Experience courses provide work experience in fields related to computer literacy. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion
Computer Literacy—Workplace Experience	10048	10	regarding experiences that students encounter in the workplace.
Computer Literacy—Other	10049	10	Other Computer Literacy courses.
			Information Management courses provide students with the knowledge and skills to develop and implement a plan for an information system that meets the needs of business. Students develop an understanding of information system theory, skills in administering and managing information systems, and the ability to analyze and design information
Information Management	10051	10	systems.
Database Management and Data Warehousing	10052	10	Database Management and Data Warehousing courses provide students with the skills necessary to design databases to meet user needs. Courses typically address how to enter, retrieve, and manipulate data into useful information. More advanced topics may cover implementing interactive applications for common transactions and the utility of mining data.
Database Applications	10053	10	Database Application courses provide students with an understanding of database development, modeling, design, and normalization. These courses typically cover such topics as SELECT statements, data definition, manipulation, control languages, records, and tables. In these courses, students may use Oracle WebDB, SQL, PL/SQL, SPSS, and SAS and may prepare for certification.
Data Systems/Processing	10054	10	Data Systems/Processing courses introduce students to the uses and operation of computer hardware and software and to the programming languages used in business applications. Students typically use BASIC, COBOL, and/or RPL languages as they write flowcharts or computer programs and may also learn data-processing skills.

			These courses examine particular topics in management information
Particular Topics in Management Information Systems	10055	10	systems other than those already described.
			Management Information Systems—Independent Study courses, often
			conducted with instructors as mentors, enable students to explore
			topics related to management information systems. Independent Study
			courses may serve as an opportunity for students to expand their
			expertise in a particular specialization, to explore a topic in greater
Management Information Systems—Independent Study	10097	10	detail, or to develop more advanced skills.
			Management Information Systems—Workplace Experience courses
			provide work experience in fields related to management information
			systems. Goals are typically set cooperatively by the student, teacher,
			and employer (although students are not necessarily paid). These
			courses may include classroom activities as well, involving further study
Management Information Systems—Workplace			of the field or discussion regarding experiences that students encounter
Experience	10098	10	in the workplace.
Management Information Systems—Other	10099	10	Other Management Information Systems courses.
			Network Technology courses address the technology involved in the
			transmission of data between and among computers through data
			lines, telephone lines, or other transmission media (such as hard wiring,
			cable television networks, radio waves, and so on). These courses may
			emphasize the capabilities of networks, network technology itself, or
			both. Students typically learn about network capabilities—including
			electronic mail, public networks, and electronic bulletin boards—and
			network technology—including network software, hardware, and
Network Technology	10101	10	peripherals involved in setting up and maintaining a computer network.
			Networking Systems courses are designed to provide students with the
			opportunity to understand and work with hubs, switches, and routers.
			Students develop an understanding of LAN (local area network), WAN
			(wide area network), wireless connectivity, and Internet-based
			communications with a strong emphasis on network function, design,
			and installation practices. Students acquire skills in the design,
			installation, maintenance, and management of network systems that
Networking Systems	10102	10	may help them obtain network certification.

			Area Network Design and Protocols courses address the role of computers in a network system, the Open Systems Interconnection
			(OSI) model, structured wiring systems, and simple LAN (local area
Area Network Design and Protocols	10103	10	network) and WAN (wide area network) designs.
			Router Basics courses teach students about router components, start-
			up, and configuration using CISCO routers, switches, and the IOS
			(Internetwork Operation System). These courses also cover such topics
			as TCP/IP protocol, IP addressing, subnet masks, and network trouble-
Router Basics	10104	10	shooting.
			NetWare Routing courses introduce students to such topics as Virtual
			LANs (VLAN) and switched internetworking, comparing traditional
			shared local area network (LAN) configurations with switched LAN
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			configurations, and they also discuss the benefits of using a switched
Name a Realist	40405	40	VLAN architecture. These courses also may cover routing protocols like
NetWare Routing	10105	10	RIP, IGRP, Novell IPX, and Access Control Lists (ACLs).
			Wide Area Telecommunications and Networking courses provide
			students with the knowledge and skills to enable them to design Wide
			Area Networks (WANs) using ISDN, Frame-Relay, and PPP. Students gain
			knowledge and skills in network management and maintenance and
			develop expertise in trouble-shooting and assessing the adequacy of
Wide Area Telecommunications and Networking	10106	10	network configuration to meet changing conditions.
Wide Area refeeatimations and Networking	10100	10	Wireless Networks courses focus on the design, planning,
			implementation, operation, and trouble-shooting of wireless computer
			networks. These courses typically include a comprehensive overview of
			best practices in technology, security, and design, with particular
			emphasis on hands-on skills in (1) wireless LAN set-up and trouble-
			shooting; (2) 802.11a & 802.11b technologies, products, and solutions;
			(3) site surveys; (4) resilient WLAN design, installation, and
			configuration; (5) vendor interoperability strategies; and (6) wireless
Wireless Networks	10107	10	bridging.

			Network Security courses teach students how to design and implement
			security measures in order to reduce the risk of data vulnerability and
			loss. Course content usually includes typical security policies; firewall
			design, installation, and management; secure router design,
			configuration, and maintenance; and security-specific technologies,
Network Security	10108	10	products, and solutions.
			Essentials of Network Operating Systems courses provide a study of
			multi-user, multi-tasking network operating systems. In these courses,
			students learn the characteristics of the Linux, Windows 2000, NT, and
			XP network operating systems and explore a variety of topics including
			installation procedures, security issues, back-up procedures, and
Essentials of Network Operating Systems	10109	10	remote access.
			Microsoft Certified Professional courses provide students with the
			knowledge and skills necessary to be employed as a network
			administrator in the latest Windows server-networking environment.
			Topics include installing, configuring, and trouble-shooting the
			Windows server. These courses prepare students to set up network
			connections; manage security issues and shares; and develop policies.
Microsoft Certified Professional (MCP)	10110	10	Students are typically encouraged to take the MCP exam.
			These courses examine particular topics in networking systems other
Particular Topics in Networking Systems	10111	10	than those already described.
			Networking Systems—Independent Study courses, often conducted
			with instructors as mentors, enable students to explore topics related
			to networking systems. Independent Study courses may serve as an
			opportunity for students to expand their expertise in a particular
			specialization, to explore a topic in greater detail, or to develop more
Networking Systems—Independent Study	10147	10	advanced skills.
			Networking Systems—Workplace Experience courses provide students
			with work experience in fields related to networking systems. Goals are
			typically set cooperatively by the student, teacher, and employer
			(although students are not necessarily paid). These courses may include
			classroom activities as well, involving further study of the field or
			discussion regarding experiences that students encounter in the
Networking Systems—Workplace Experience	10148	10	workplace.

Networking Systems—Other	10149	10	Other Networking Systems courses.
			Business Programming courses provide students with experience in
			using previously written software packages as well as designing and
			writing programs of their own. The word-processing, spreadsheet,
			graphics, and database exercises in these courses contain a business
			industry focus, and the original programs are written in languages
			typical of this industry (Visual Basic (VB), C++, Java, BASIC, COBOL,
Business Programming	10151	10	and/or RPL).
			Computer Programming courses provide students with the knowledge
			and skills necessary to construct computer programs in one or more
			languages. Computer coding and program structure are often
			introduced with the BASIC language, but other computer languages,
			such as Visual Basic (VB), Java, Pascal, C++, and COBOL, may be used
			instead. Initially, students learn to structure, create, document, and
			debug computer programs, and as they progress, more emphasis is
			placed on design, style, clarity, and efficiency. Students may apply the
			skills they learn to relevant applications such as modeling, data
Computer Programming	10152	10	management, graphics, and text-processing.
			Visual Basic (VB) Programming courses provide an opportunity for
			students to gain expertise in computer programs using the Visual Basic
			(VB) language. As with more general computer programming courses,
			the emphasis is on how to structure and document computer programs
			and how to use problem-solving techniques. These courses cover such
			topics as the use of text boxes, scroll bars, menus, buttons, and
			Windows applications. More advanced topics may include
Visual Basic (VB) Programming	10153	10	mathematical and business functions and graphics.
			C++ Programming courses provide an opportunity for students to gain
			expertise in computer programs using the C++ language. As with more
			general computer programming courses, the emphasis is on how to
			write logically structured programs, include appropriate
			documentation, and use problemsolving techniques. More advanced
C++ Programming	10154	10	topics may include multi-dimensional arrays, functions, and records.

			Java Programming courses provide students with the opportunity to
			gain expertise in computer programs using the Java language. As with
			more general computer programming courses, the emphasis is on how
			to structure and document computer programs, using problem-solving
			techniques. Topics covered in the course include syntax, I/O classes,
Java Programming	10155	10	string manipulation, and recursion.
			Computer Programming—Other Language courses provide students
			with the opportunity to gain expertise in computer programs using
			languages other than those specified (such as Pascal, FORTRAN, or
			emerging languages). As with other computer programming courses,
			the emphasis is on how to structure and document computer
			programs, using problem-solving techniques. As students advance, they
			learn to capitalize on the features and strengths of the language being
Computer Programming—Other Language	10156	10	used.
			Following the College Board's suggested curriculum designed to mirror
			college-level computer science courses, AP Computer Science A courses
			provide students with the logical, mathematical, and problem-solving
			skills needed to design structured, well-documented computer
			programs that provide solutions to real-world problems. These courses
			cover such topics as programming methodology, features, and
			procedures; algorithms; data structures; computer systems; and
AP Computer Science A	10157	10	programmer responsibilities.
711 Computer Science 71	10137		Following the College Board's suggested curriculum designed to mirror
			college-level computer science courses, AP Computer Science AB
			courses (in addition to covering topics included in AP Computer Science
			A) provide a more formal and extensive study of program design,
AP Computer Science AB	10158	10	algorithms, data structures, and execution costs.
AF Computer Science AB	10136	10	IB Computer Studies courses prepare students to take the International
			Baccalaureate Computing Studies exam at either the Subsidiary or
			Higher level. The courses emphasize problem analysis, efficient use of
			data structures and manipulation procedures, and logical decision-
			making. IB Computing Studies courses also cover the applications and
			effects of the computer on modern society as well as the limitations of
IB Computing Studies	10159	10	computer technology.

			These courses examine particular topics in computer programming
Particular Topics in Computer Programming	10160	10	other than those already described.
			Game technologies represent the culmination of logic, sequence, tool
			utilization, and extension of skill. Programming process for this course
			will utilize all previously learned factors of programming logic, artistry,
Game Design and Authoring for the Web	10165	10	and interactivity.
			Computer Programming—Independent Study courses, often conducted
			with instructors as mentors, enable students to explore topics related
			to computer programming. Independent Study courses may serve as an
			opportunity for students to expand their expertise in a particular
			specialization, to explore a topic in greater detail, or to develop more
Computer Programming—Independent Study	10197	10	advanced skills.
			Computer Programming—Workplace Experience courses provide
			students with work experience in fields related to computer
			programming. Goals are typically set cooperatively by the student,
			teacher, and employer (although students are not necessarily paid).
			These courses may include classroom activities as well, involving further
			study of the field or discussion regarding experiences that students
Computer Programming—Workplace Experience	10198	10	encounter in the workplace.
Computer Programming—Other	10199	10	Other Computer Programming courses.
			Web Page Design courses teach students how to design web sites by
			introducing them to and refining their knowledge of site planning, page
			layout, graphic design, and the use of markup languages—such as
			Extensible Hypertext Markup, JavaScript, Dynamic HTML, and
			Document Object Model—to develop and maintain a web page. These
			courses may also cover security and privacy issues, copyright
			infringement, trademarks, and other legal issues relating to the use of
			the Internet. Advanced topics may include the use of forms and scripts
Web Page Design	10201	10	for database access, transfer methods, and networking fundamentals.

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			Computer Graphics courses provide students with the opportunity to
			explore the capability of the computer to produce visual imagery and to
			apply graphic techniques to various fields, such as advertising,
			TV/video, and architecture. Typical course topics include modeling,
Computer Graphics	10202	10	simulation, animation, and image retouching.
			Interactive Media courses provide students with the knowledge and
			skills to create, design, and produce interactive media products and
			services. The courses may emphasize the development of digitally
			generated and/or computer-enhanced media. Course topics may
			include 3D animation, graphic media, web development, and virtual
			reality. Upon completion of these courses, students may be prepared
Interactive Media	10203	10	for industry certification.
			These courses examine particular topics in internet design and
Particular Topics in Media Technology	10204	10	applications other than those already described.
			This course emphasizes the development of digitally generated and/or
			computer-enhanced media, including 2D and 3D spatial elements,
			graphic representation, management of movement, environmental
			representation [including texture, color, value, form, line, and space],
			recording media, and distribution tools and methodologies.
			Instruction provides venue for such sophisticated, programming
			sequences and methodologies as are integrated into actions of the
Animation	10210	10	characters creating new behaviors.
			Media Technology—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics related to
			media technology. Independent Study courses may serve as an
			opportunity for students to expand their expertise in a particular
			specialization, to explore a topic in greater detail, or to develop more
Media Technology—Independent Study	10247	10	advanced skills.
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			Media Technology—Workplace Experience courses provide students
			with work experience in fields related to media technology. Goals are
			typically set cooperatively by the student, teacher, and employer
			(although students are not necessarily paid). These courses may include
			classroom activities as well, involving further study of the field or
			discussion regarding experiences that students encounter in the
Media Technology—Workplace Experience	10248	10	workplace.
Media Technology—Other	10249	10	Other Media Technology courses.
			Computer Technology courses introduce students to the features,
			functions, and design of computer hardware and provide instruction in
			the maintenance and repair of computer components and peripheral
Computer Technology	10251	10	devices.
			Computer Maintenance courses prepare students to apply basic
			electronic theory and principles in diagnosing and repairing personal
			computers and input/output devices. Topics may include operating,
			installing, maintaining, and repairing computers, network systems,
			digital control instruments, programmable controllers, and related
Computer Maintenance	10252	10	robotics.
			Information Support and Services courses prepare students to assist
			users of personal computers by diagnosing their problems in using
Information Support and Services	10253	10	application software packages and maintaining security requirements.
			IT Formaticle DC Headware and Coftware as well as to death with
			IT Essentials: PC Hardware and Software courses provide students with
			in-depth exposure to computer hardware and operating systems.
			Course topics include the functionality of hardware and software
			components as well as suggested best practices in maintenance and
			safety issues. Students learn to assemble and configure a computer,
			install operating systems and software, and troubleshoot hardware and
			software problems. In addition, these courses introduce students to
IT Essentials: PC Hardware and Software	10254	10	networking and often prepare them for industry certification.

			CISCO—PNIE courses provide students with the knowledge to create
			innovative network infrastructure solutions. These courses offer
			students basic cable installer information and help them acquire the
CISCO—The Panduit Network Infrastructure Essentials			skills to build and use the physical layer of network infrastructure and
	10255	10	
(PNIE)	10255	10	develop a deeper understanding of networking devices.
	400=6		These courses examine particular topics in computer support,
Particular Topics in Information Support and Services	10256	10	maintenance, and repair other than those already described.
			Educational Trainer course provides instruction and practice for
			students who can train teachers, peers, and community in the effective
			integration of technology. Training on various technology tools,
Educational Trainer	10260	10	professional demeanor, customer service, and troubleshooting.
			Information Support and Services—Independent Study courses, often
			conducted with instructors as mentors, enable students to explore
			topics related to computer information support and services.
			Independent Study courses may serve as an opportunity for students to
			expand their expertise in a particular specialization, to explore a topic in
Information Support and Services—Independent Study	10297	10	greater detail, or to develop more advanced skills.
			Information Support and Services—Workplace Experience courses
			provide students with work experience in fields related to information
			support and/or service. Goals are typically set cooperatively by the
			student, teacher, and employer (although students are not necessarily
			paid). These courses may include classroom activities as well, involving
			further study of the field or discussion regarding experiences that
Information Support and Services—Workplace Experience	10298	10	students encounter in the workplace.
Information Support and Services—Other	10299	10	Other Information Support and Services courses.
			Computer and Information Sciences—Independent Study courses, often
			conducted with instructors as mentors, enable students to explore
			computer-related topics of interest. Independent Study courses may
			serve as an opportunity for students to expand their expertise in a
			particular specialization, to explore a topic in greater detail, or to
Computer and Information Sciences—Independent Study	10997	10	develop more advanced skills.
Temperature and information described independent study	_000,		

			Commutation Colonics - Marketon Francisco - Colonics
			Computer and Information Sciences—Workplace Experience courses
			provide students with work experience in fields related to computer
			and/or information sciences. Goals are typically set cooperatively by
			the student, teacher, and employer (although students are not
			necessarily paid). These courses may include classroom activities as
Computer and Information Sciences—Workplace			well, involving further study of the field or discussion regarding
Experience	10998	10	experiences that students encounter in the workplace.
Computer and Information Sciences—Other	10999	10	Other Computer and Information Sciences courses.
			Introduction to Communication courses enable students to understand
			and critically evaluate the role of media in society. Course content
			typically includes investigation of visual images, printed material, and
			audio segments as tools of information, entertainment, and
			propaganda; improvement of presentation and evaluative skills in
			relation to mass media; recognition of various techniques for delivery
			of a particular message; and, in some cases, creation of a media
Introduction to Communication	11001	11	product. The course may concentrate on a particular medium.
			Communication Technology courses enable students to effectively
			communicate ideas and information through experiences dealing with
			drafting, design, electronic communication, graphic arts, printing
			process, photography, telecommunications, and computers. Additional
			topics covered in the course include information storage and retrieval.
			Drafting equipment may be used to make scale drawings, including
Communication Technology	11002	11	multi-view drawing, photographs, and poster mock-ups.
			These courses examine specific topics in communication other than
Particular Topics in Communication	11003	11	those already described.
			Communication—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics of interest
			related to mass communications. 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
Communication—Independent Study	11047	11	advanced skills.
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Communication—Workplace Experience	11048	11	Communication—Workplace Experience courses provide students with work experience in a field related to communication. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.
Communication—Other	11049	11	Other Communication courses.
Audio/Visual Production	11051	11	Audio/Visual Production courses provide students with the knowledge and skills necessary for television, video, film, and/or radio production. Writing scripts, camera operation, use of graphics and other visuals, lighting, audio techniques, editing, production principles, and career opportunities are typical topics covered within production courses. Students are usually required to produce their own program or segment. Additional topics such as broadcast industry regulations, radio/TV operation, power of the medium, photography, transmission technology, and so on may be included.
			Commercial Photography courses provide instruction in the use of cameras and laboratory filmprocessing techniques. Topics covered in the course include composition and color dynamics; contact printing; enlarging; developing film; use of camera meters, air brushes, and other photographic equipment; portrait, commercial, and industrial photography; processing microfilm; and preparing copy for printing or
Commercial Photography	11052	11	for graphic-arts processing.
Photographic Laboratory and Darkroom	11053	11	Photographic Laboratory and Darkroom courses prepare students to develop and print still or motion picture film. Topics covered in the course may include controlling resultant prints; touching up negatives; and finishing, coloring, restoring, and copying prints.

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			Photo Imaging courses provide students with the opportunity to
			effectively communicate ideas and information via digital, film, still and
			video photography. Topics covered typically include composition,
			layout, lighting and supplies. More advanced courses may include
			instruction in specialized camera and equipment maintenance,
			application to commercial and industrial need and photography
Photo Imaging	11054	11	business operations.
			Video courses enable students to explore video communications,
			incorporating both the technical and artistic aspects of video media.
			Topics covered in the course include the use of video equipment and
			techniques, and students typically create a video presentation.
			Advanced course topics may include creating various forms of film
			media including silent film; sport and music video; and self portrait
Video	11055	11	video.
			These courses examine specific topics in audio and video technology
Particular Topics in Audio/Video Technology and Film	11056	11	and film other than those already described.
			Photoengraving courses teach students to photograph illustration and
			other copy that cannot be set in type, to develop negatives, and to
Photoengraving	11057	11	prepare photosensitized metal plates for use in printing.
			Audio/Video Technology and Film—Independent Study courses, often
			conducted with instructors as mentors, enable students to explore
			topics of interest related to A/V technology or film. 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,
Audio/Video Technology and Film—Independent Study	11097	11	or to develop more advanced skills.
			Audio/Video Technology and Film—Workplace Experience courses
			provide students with work experience in a field related to audio/visual
			technology and/or film. Goals are typically set cooperatively by the
			student, teacher, and employer (although students are not necessarily
			paid). These courses may include classroom activities as well, involving
			further study of the field or discussion regarding experiences that
Audio/Video Technology and Film—Workplace Experience	11098	11	students encounter in the workplace.
Audio/Video Technology and Film—Other	11099	11	Other Audio/Video Technology and Film courses.

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			Journalism courses (typically associated with the production of a school
			newspaper, yearbook, or literary magazine) emphasize writing style and
			technique as well as production values and organization. Journalism
			courses introduce students to the concepts of newsworthiness and
			press responsibility; develop students' skills in writing and editing
			stories, headlines, and captions; and teach students the principles of
			production design, layout, and printing. Photography and
Journalism	11101	11	photojournalism skills may be included.
			Photojournalism courses expose students to the manner in which
			photography is used to convey information and experiences. Typically
			coordinated with production of the school newspaper, yearbook, or
			other media product, photojournalism courses provide students with
			the opportunity to improve their photo composition and film
Photojournalism	11102	11	development skills, and to apply their art to journalistic endeavors.
			Broadcasting Technology courses provide students with the knowledge
			and skills to produce television broadcast programs. Typically, students
			prepare and produce short programs, learning the technical aspects of
			the operation and how to evaluate programming and assess audience
Broadcasting Technology	11103	11	reaction and impact.
			Publication Production courses provide students with the knowledge
			and skills necessary to produce the school newspaper, yearbook,
			literary magazine, or other printed publication. Students may gain
			experience in several components (writing, editing, layout, production,
			and so on) or may focus on a single aspect while producing the
Publication Production	11104	11	publication.
			These courses examine specific topics in journalism and broadcasting
Particular Topics in Journalism and Broadcasting	11105	11	other than those already described.
			Journalism and Broadcasting—Independent Study courses, often
			conducted with instructors as mentors, enable students to explore
			topics of interest related to journalism, broadcasting, and mass media.
			Independent Study courses may serve as an opportunity for students to
			expand their expertise in a particular application, to explore a topic in
Journalism and Broadcasting—Independent Study	11147	11	greater detail, or to develop more advanced skills.
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		Journalism and Broadcasting—Workplace Experience courses provide
		students with work experience in a field related to journalism or
		broadcasting. Goals are typically set cooperatively by the student,
		teacher, and employer (although students are not necessarily paid).
		These courses may include classroom activities as well, involving further
		study of the field or discussion regarding experiences that students
11148	11	encounter in the workplace.
11149	11	Other Journalism and Broadcasting courses.
		These courses are designed to give students the skills necessary to
		support and enhance their learning about digital medial technology.
		Topics covered in the course may include internet research, copyright
		laws, web-publishing, use of digital imagery, electronic forums,
11151	11	newsgroups, mailing lists, presentation tools, and project planning.
		Desktop Publishing courses integrate the knowledge and skills learning
		in word processing with the concepts, procedures and application of
		desktop publishing. Students learn to format, create and proofread
		brochures, programs, newsletters, web pages, presentations and
11152	11	manuscripts.
		Digital Media Design and Production courses teach students the
		fundamentals of graphic design and production and provide students
		with the opportunity to apply these principles to printed media, digital
11153	11	presentation media, and interactive media.
		Commercial Graphic Design courses teach students to use artistic
		techniques to effectively communicate ideas and information to
		business and customer audiences via illustration and other forms of
		digital or printed media. Topics covered may include concept design,
		layout, paste-up and techniques such as engraving, etching, silkscreen,
		lithography, offset, drawing and cartooning, painting, collage and
11154	11	computer graphics.
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			Graphic Technology courses help students apply artistic and computer
			techniques to the interpretation of technical and commercial concepts.
			Topics covered may include computer assisted art and design,
			printmaking, concept sketching, technical drawing, color theory,
			imaging, studio techniques, still life modeling, and commercial art
			business operations. Advanced topics may include topographic
			arrangements of print and/or electronic graphic and textual products,
			printing and lithographic equipment and operations, digital imaging,
Graphic Technology	11155	11	print preparation, desktop publishing and web page design.
			Photography and Printing Technology courses expose students to the
			tools, materials and processes involved in mass production of
			photography and printing. Types of printing covered in the course may
			include intaglio, relief, planographic, screen processes printing, silk
			screening, serigraphy processes and thermograph. Additional topics
			may include the use of cameras, composition, imposition, presswork,
Photography and Printing Technology	11156	11	and computer aided publishing.
			Photoengraving courses teach students to photograph illustration and
			other copy that cannot be set in type, to develop negatives, and to
Photoengraving	11157	11	prepare photosensitized metal plates for use in printing.
			These courses expose students to the necessary skills for operating a
			print press. Topics covered in this course include how to prepare,
Print Press Operations	11158	11	operate and maintain printing processes.
			These courses examine specific topics in printing production, such as
			book binding or silk screen print making, other than those already
Particular Topics in Printing Technology and Production	11159	11	described.
			Printing Technology—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics of interest
			related to the print medium. 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
Printing Technology—Independent Study	11197	11	advanced skills.

			Printing Technology—Workplace Experience courses provide students
			with work experience in a field related to printing. Goals are typically
			set cooperatively by the student, teacher, and employer (although
			students are not necessarily paid). These courses may include
			classroom activities as well, involving further study of the field or
			discussion regarding experiences that students encounter in the
Printing Technology—Workplace Experience	11198	11	workplace.
Printing Technology—Other	11199	11	Other Printing Technology courses.
			Communication and Audio/Video Technology—Independent Study
			courses, often conducted with instructors as mentors, enable students
			to explore topics of interest related to mass communication and its
			technologies. Independent Study courses may serve as an opportunity
Communication and Audio/Video			for students to expand their expertise in a particular application, to
Technology—Independent Study	11997	11	explore a topic in greater detail, or to develop more advanced skills.
			Communication and Audio/Video Technology—Workplace Experience
			courses provide students with work experience in a field related to
			communication or audio/visual technology. Goals are typically set
			cooperatively by the student, teacher, and employer (although students
			are not necessarily paid). These courses may include classroom
Communication and Audio/Video Technology—Workplace			activities as well, involving further study of the field or discussion
Experience	11998	11	regarding experiences that students encounter in the workplace.
Communication and Audio/Video Technology—Other	11999	11	Other Communication and Audio/Video Technology courses.
			Business/Office Career Exploration courses expose students to the
			occupational opportunities available in the accounting, administration,
			data processing, management, and secretarial fields. Emphasis is placed
			on responsibilities, qualifications, work environment, and career paths.
			These courses may also include consumer education topics, keyboard
			exposure, and/or hands-on experience within the various occupational
Business/Office Career Exploration	12001	12	areas.

			Office Procedures—Comprehensive courses provide students with
			numerous opportunities to explore and understand the responsibilities
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			and duties common to most office personnel. These comprehensive
			courses cover such topics as communication skills, reception and
			transmission of information via data processing equipment, filing and
			record management, mail handling, scheduling meetings and
Office Procedures—Comprehensive	12002	12	conferences, creating itineraries, and word processing.
			Office and Administrative Technologies courses provide students with
			instruction and experience in developing technical, problem-solving,
			and decision-making skills essential for office and/or administrative
			occupations. Emphasis is placed on integrating and applying knowledge
			and skills to realistic office and administrative situations utilizing
Office and Administrative Technologies	12003	12	current and relevant technology.
			Office Services courses introduce students to and help them refine
			clerical and receptionist skills. Course content typically covers filing,
			telephone, and keyboarding skills; reprographic machinery and
Office Services	12004	12	procedures; communications skills; and so on.
			Keyboarding courses provide students with an introduction to the
			keyboard (letters, numbers, and symbols), basic machine operation,
			and proper keystroke technique. As students progress, they improve
			their speed and accuracy and produce increasingly complex documents.
			Such courses help students develop keyboard proficiency, document
Keyboarding	12005	12	production skills, and problem-solving skills.
			Word Processing courses introduce students to automated document
			production using one or more software packages. These courses may
			introduce keyboarding techniques or may require prior experience; in
			either case, speed and accuracy are emphasized. A parallel focus is
			placed on the use of software commands and functions to create, edit,
			format, and manipulate documents, capitalizing on the power offered
			by word processing software programs. These courses may also cover
Word Processing	12006	12	file and disk management and other computer-related skills.

	10007	12	Recordkeeping courses help students to develop knowledge and skills related to the principles and procedures involved in recording personal financial transactions as well as transactions typically undertaken by small businesses. Partial emphasis may be placed on personal banking, budgeting, and income tax calculations; additional emphasis is usually placed on cashier and clerk procedures, inventory control for small
ecordkeeping	12007	12	businesses, database management, merchandising, and payroll.
			These courses examine specific topics related to business administration not otherwise described, such as a focus on dictation or office machinery, rather than provide a general study of office
articular Topics in Administration	12008	12	administration principles and techniques.
usiness Communications	12009	12	Business Communications courses help students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communicating nonverbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and realworld application. Administration—Independent Study courses, often conducted with instructors as mentors, enable students to explore business
dministration—Independent Study	12047	12	administration-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.
			Administration—Workplace Experience courses provide students with work experience in fields related to business administration. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the
1	12048	12	workplace.
dministration—Workplace Experience	12040		workplace.

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			This is a core course designed to give students an overview of the
			business, marketing and finance career cluster occupations. Students
			will develop an understanding of how academic skills in mathematics,
			economics, and written and oral communications are integral
			components of success in these occupations. Students will examine
			current events to determine their impact on business and industry and
			legal and ethical behavior, acquire knowledge of safe and secure
			environmental controls to enhance productivity, determine how
			resources should be managed to achieve company goals, and identify
			employability and personal skills needed to obtain a career and be
			successful in the workplace. As students learn about different types of
			business ownership, they will interpret industry laws and regulations to
			ensure compliance, identify principles of business management, and
			analyze business practices to determine ethics and social
Business Essentials	12050	12	responsibilities.
			Introductory Business courses survey an array of topics and concepts
			related to the field of business. These courses introduce business
			concepts such as banking and finance, the role of government in
			business, consumerism, credit, investment, and management. They
			usually provide a brief overview of the American economic system and
			corporate organization. Introductory Business courses may also expose
			students to the varied opportunities in secretarial, accounting,
Introductory Business	12051	12	management, and related fields.
			Business Management courses acquaint students with management
			opportunities and effective human relations. These courses provide
			students with the skills to perform planning, staffing, financing, and
			controlling functions within a business. In addition, they usually provide
			a macro-level study of the business world, including business structure
			and finance, and the interconnections among industry, government,
			and the global economy. The course may also emphasize problem-
			based, real-world applications of business concepts and use accounting
Business Management	12052	12	concepts to formulate, analyze, and evaluate business decisions.

Entrepreneurship	12053	12	Entrepreneurship courses acquaint students with the knowledge and skills necessary to own and operate their own businesses. Topics from several fields typically form the course content: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communication. Several topics surveyed in Business Management courses may also be included.
	12000		Business Law courses emphasize legal concepts that are relevant to
			business and business organizations. Topics examined in these courses typically include contracts, buying/renting property, installment buying, insurance, buyer/seller relationships, negotiable instruments, employment, taxes, insurance, commercial papers, legal organizational
Business Law	12054	12	structures, and consumer liabilities.
Business Principles and Management	12055	12	Business Principles and Management courses are designed to provide students with an understanding of the American business system, its organizations, and its management. These courses examine the various leadership and management styles of a variety of successful business organizations, large or small.
·			International Business and Marketing courses examine business management and administration in a global economy. Topics covered in this course typically include the principles and processes of export sales, trade controls, foreign operations and related problems, monetary issues, international business and policy, and applications of
International Business and Marketing	12056	12	doing business in specific countries and markets.
			Human Resources and Labor Relations courses analyze the functions of conflict resolution and collective bargaining. Typically, students examine the history of the labor movement within the United States, the relationship between management and labor, and how organized
Human Resources and Labor Relations	12057	12	labor currently operates.
			Human Resources Management courses provide students with an understanding of the effective use of interpersonal skills in achieving
Human Resources Management	12058	12	the goals of an organization.

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			IB Business and Management courses prepare students to take the
			International Baccalaureate Business and Management exam at either
			the Subsidiary or Higher level. In keeping with Individual and Society
			courses, IB Business and Management promotes problem-solving by
			identifying the problem, selecting and interpreting data, applying
			appropriate analytical tools, and recommending solutions by evaluating
			their quantitative and qualitative implications. These courses also equip
			students with knowledge and understanding of business terminology,
IB Business and Management	12059	12	concepts and principles.
			Management—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore business
			management-related topics of interest. Independent Study courses may
			serve as an opportunity for students to expand their expertise in a
			particular specialization, to explore a topic in greater detail, or to
Management—Independent Study	12097	12	develop more advanced skills.
			Management—Workplace Experience courses provide students with
			work experience in fields related to business management. Goals are
			typically set cooperatively by the student, teacher, and employer
			(although students are not necessarily paid). These courses may include
			classroom activities as well, involving further study of the field or
			discussion regarding experiences that students encounter in the
Management—Workplace Experience	12098	12	workplace.
Management—Other	12099	12	Other Management courses.
			Banking and Finance courses provide students with an overview of the
			American monetary and banking system as well as types of financial
			institutions and the services and products that they offer. Course
			content may include government regulations; checking, savings, and
			money market accounts; loans; investments; and negotiable
Banking and Finance	12101	12	instruments.
			Banking courses are similar to Banking and Finance courses, but they
			focus specifically on banking. These courses may also address
			examining and applying the methods used for measuring the financial
			performance of banks in addition to examining specialized brokerage
Banking	12102	12	products, current issues, and future trends in banking.
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			Finance courses are similar to Banking and Finance courses, but they focus specifically on finance, addressing how businesses raise, distribute, and use financial resources while managing risk. Course content typically involves modeling financial decisions (such as
Finance	12103	12	borrowing, selling equity or stock, lending or investing) typically undertaken by businesses.
Accounting	12104	12	Accounting courses introduce and expand upon the fundamental accounting principles and procedures used in businesses. Course content typically includes the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students may learn how to apply standard auditing principles and to prepare budgets and final reports. Calculators, electronic spreadsheets, or other automated tools are usually used. Advanced topics may include elementary principles of partnership and corporate accounting and the managerial uses of control systems and the accounting process.
Business Economics	12105	12	Business Economics courses integrate economic principles (such as free market economy, consumerism, and the role of American government within the economic system) with entrepreneurship/business concepts (such as marketing principles, business law, and risk).
Risk Management and Insurance	12106	12	Risk Management and Insurance courses analyze risk management techniques from the viewpoints of those employed in the industry as well as of business owners seeking to meet risk management needs. Insurance products are evaluated in relation to cost and effectiveness.
Investing	12107	12	Investing courses emphasize the formulation of business and individual investment decisions by comparing and contrasting the investment qualities of cash, stock, bonds, and mutual funds. Students typically review annual reports, predict growth rates, and analyze trends. Stock market simulations are often incorporated into Investing courses.

			Advanced Accounting courses expand upon the fundamental accounting principles and procedures used in businesses. Course content typically includes the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students learn how to apply standards auditing principles and to prepare budgets and final reports. Calculators, electronic spreadsheets, or other automated tools are usually used. Topics include principles of partnership and corporate accounting and the managerial uses of control systems and the accounting process and further enhancement
Advanced Accounting	12108	12	of accounting skills.
Finance—Independent Study	12147	12	Finance—Independent Study courses, often conducted with instructors as mentors, enable students to explore business finance-related topics of interest. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular specialization, to explore a topic in greater detail, or to develop more advanced skills.
Finance—Workplace Experience	12148	12	Finance—Workplace Experience courses provide students with work experience in fields related to finance. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.
Finance—Other	12149	12	Other Finances courses.
			Geared for students with an interest in marketing, sales, or small business operation, Marketing Career Exploration courses expose students to the opportunities available in retail, wholesale, advertising,
Marketing Career Exploration	12151	12	and other occupational fields using marketing principles.

			Marketing—Comprehensive courses focus on the wide range of factors that influence the flow of goods and services from the producer to the consumer. Topics may include (but are not limited to) market research, the purchasing process, distribution systems, warehouse and inventory control, salesmanship, sales promotions, shoplifting and theft control, business management, and entrepreneurship. Human relations,
Marketing—Comprehensive	12152	12	computers, and economics are often covered as well.
			Marketing—Fashion courses typically cover the same scope of topics as Marketing— Comprehensive courses (purchasing and distribution systems, advertising, display and sales, management and entrepreneurship, and so on) but do so with particular attention to the fashion industry. In keeping with the focus on the fashion industry,
	40450		course topics may also include fashion cycles, fashion history, design,
Marketing—Fashion	12153	12	style, and coordination.
			Marketing—Real Estate courses typically cover the same scope of
			topics as Marketing— Comprehensive courses (purchasing, advertising,
			sales, human relations, management and entrepreneurship, and so on)
			but do so with particular attention to the real estate industry. In
			keeping with the focus on real estate, course topics may also include
			financing, investment, ownership rights, ethics, and other real estate
Marketing—Real Estate	12154	12	principles.
			Marketing—Transportation courses typically cover the same scope of
			topics as Marketing— Comprehensive courses (purchasing and
			distribution systems, advertising, display and sales, management,
			entrepreneurship, and so on) but do so with particular attention to the
			transportation industry. In keeping with the focus on this industry,
			topics include identification and proper use of auto parts and
			accessories and the sales and service of new and used cars, vans,
Marketing—Transportation	12155	12	trucks, and related parts.

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			Marketing—Food/Beverage Industry courses typically cover the same
			scope of topics as Marketing—Comprehensive courses (purchasing and
			distribution systems, advertising, display and sales, management,
			entrepreneurship, and so on) but do so with particular attention to the
			food and beverage industry. In keeping with the focus on this industry,
			topics include the unique characteristics and functions of the food and
Marketing—Food/Beverage Industry	12156	12	beverage service industry.
			Marketing—Insurance courses typically cover the same scope of topics
			as Marketing— Comprehensive courses (purchasing and distribution
			systems, advertising, display and sales, management, entrepreneurship,
			and so on) but do so with particular attention to the sale or
			underwriting of accident, health, life, marine, automobile, and causality
Marketing—Insurance	12157	12	insurance.
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			Marketing—Floristry courses typically cover the same scope of topics as
			Marketing— Comprehensive courses (purchasing and distribution
			systems, advertising, display and sales, management, entrepreneurship,
			and so on) but do so with particular attention to the floristry industry.
			In keeping with the focus on this field, topics include the unique
Marketing—Floristry	12158	12	characteristics and functions of retail and wholesale floral operations.
			Marketing—Hospitality/Tourism courses typically cover the same scope
			of topics as Marketing—Comprehensive courses (purchasing and
			distribution systems, advertising, display and sales, management,
			entrepreneurship, and so on) but do so with particular attention to the
			travel, tourism, and lodging industry. In keeping with the focus on this
			field, topics include the unique characteristics and functions of travel
Marketing—Hospitality/Tourism	12159	12	services and hotel/motel operations.
			Marketing—Merchandising courses are designed to provide students
			with practical backgrounds in retailing, with emphasis on
			merchandising, promotion/display, selling, and career planning. The
			content of this course may also include fundamental principles of
Marketing—Merchandising	12160	12	human relations.

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			Retail Marketing courses cover marketing principles and concepts
			related to the provision of goods or services directly to the consumer,
			emphasizing store operation, advertisement and display of goods, store
Retail Marketing	12161	12	security, human relations, and business management and ownership.
			Internet Marketing covers the principles and functions of marketing
			from the standpoint of conducting business on the internet. Typically,
			students develop such skills as using the internet as a marketing tool,
			conducting a marketing analysis via the internet, planning marketing
			support activities, managing an electronic marketing campaign,
			managing/owning a business via the internet, and analyzing the impact
Internet Marketing	12162	12	of the internet on global marketing.
			Sports and Entertainment Marketing courses introduce students to and
			help them refine marketing and management functions and tasks that
			can be applied in amateur or professional sports or sporting events,
			entertainment or entertainment events, and the sales or rental of
Sports and Entertainment Marketing	12163	12	supplies and equipment.
			Principles of Marketing courses offer students insight into the processes
			affecting the flow of goods and services from the producer to the
			consumer. Course content ranges considerably as general marketing
			principles such as purchasing, distribution, and sales are covered;
			however, a major emphasis is often placed on kinds of markets; market
			identification; product planning, packaging, and pricing; and business
Principles of Marketing	12164	12	management.
			Principles of Advertising courses expose students to the varied concepts
			underlying the promotion of products. The topics included in Principles
			of Advertising courses range considerably, but typically include the
			psychology of advertising, a study of various media, advertising
			planning and budgeting, and advertising layout and design principles.
			Course topics may also include an overview of commercial art and
Principles of Advertising	12165	12	packaging.
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			Marketing Management courses typically cover the same scope of
			topics as Marketing— Comprehensive courses (purchasing and
			distribution systems; advertising and sales; and so on) but place a
			particular emphasis on business management and entrepreneurship,
			providing exposure to common techniques and problems of
Marketing Management	12166	12	management.
Warketing Wanagement	12100	12	Marketing—Other Specialization courses typically cover the same scope
			of topics as Marketing—Comprehensive courses (purchasing and
			distribution systems, advertising, display and sales, management,
			entrepreneurship, and so on) but do so with attention to a particular
	12167	4.0	industry not specified above. The course may also cover specific topics
Marketing—Other Specialization	12167	12	related to the particular industry being covered.
			Marketing Communications is an Application-Level course. This course
			includes activities and discussion related to: advertising, branding,
			graphic design, packaging, promotion, publicity, sponsorship, public
Marketing Communications	12168	12	relation, and sales promotion.
			Integrated Marketing Applications is an Application-Level course.
			Through this course, students will be actively engaged in utilizing
			technology and technology applications in the design, production, and
			implementation of marketing strategies. Students will create print,
			multi-media, and electronic materials used in the marketing process.
			Application-level activities will be centered around: advertising,
			branding, graphic design, packaging, promotion, publicity, sponsorship,
Integrated Marketing Applications	12195	12	public relation, and sales promotion.
			Marketing Research will focus on how to: (1) specify information needs
			and design a research study to meet those needs; (2) collect, analyze
			and use marketing research data to make effective marketing decisions;
			(3) communicate the research findings and their implications to various
Marketing Research	12196	12	publics.
IMALIKETINE MESECICII	12130	14	publics.

			Marketing—Independent Study courses, often conducted with instructors as mentors, enable students to explore marketing-related topics of interest. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular specialization, to explore a topic in greater detail, or to develop more
Marketing—Independent Study	12197	12	advanced skills.
		10	Marketing—Workplace Experience courses provide students with work experience in fields related to marketing. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion
Marketing—Workplace Experience Marketing—Other	12198 12199	12 12	regarding experiences that students encounter in the workplace. Other Marketing courses.
			Cashier/Checker Operations courses provide students with the knowledge and skills to operate a cash register and to handle numerous transactions. Topics typically include cash register procedures; handling cash, credit, checks, food stamps, and other forms of legal tender; human relations; stocking and marking merchandise; and theft prevention. Job search and employability skills are often an integral part
Cashier/Checker Operations	12201	12	of the course.
			Principles of Selling courses provide students with the knowledge and opportunity to develop indepth sales competencies. Course content typically includes types of selling, steps in a sale, sales strategies, and
Principles of Selling	12202	12	interpersonal skills and techniques.
			Sales—Independent Study courses, often conducted with instructors as mentors, enable students to explore sales-related topics of interest. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular specialization, to explore a topic in
Sales—Independent Study	12247	12	greater detail, or to develop more advanced skills.

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Sales—Workplace Experience Sales—Other	12248 12249	12 12	Sales—Workplace Experience courses provide students with work experience in fields related to sales. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace. Other Sales courses.
			Business and Marketing—Independent Study courses, often conducted
			with instructors or professionals as mentors, enable students to explore
			business or marketing-related topics of interest. Independent Study
			courses may serve as an opportunity for students to expand their
			expertise in a particular specialization, to explore a topic in greater
Business and Marketing—Independent Study	12997	12	detail, or to develop more advanced skills.
			Business and Marketing—Workplace Experience courses provide
			students with work experience in fields related to business and
			marketing. Goals are typically set cooperatively by the student, teacher,
			and employer (although students are not necessarily paid). These
			courses may include classroom activities as well, involving further study
			of the field or discussion regarding experiences that students encounter
Business and Marketing—Workplace Experience	12998		in the workplace.
Business and Marketing—Other	12999	12	Other Business and Marketing courses.
			Exploration of Manufacturing Occupations courses introduce and
			expose students to the career opportunities pertaining to the
			processing and production of goods. Course topics vary and may
			include (but are not limited to) systems pertinent to the manufacturing
			process, properties of various raw materials, and the methods used to
			transform materials into consumer products. Course activities depend
			upon the careers being explored; course topics may include
Exploration of Manufacturing Occupations	13001	13	entrepreneurship, labor laws, and customer service.

			Manufacturing—Comprehensive courses introduce students to the
			various methods used to process and transform materials. Processing
			techniques covered usually include casting, forming, separating,
			assembling, and finishing. The courses may also include an overview of
			management techniques in planning, organizing, and controlling various
			segments of the manufacturing process, including design, engineering,
Manufacturing—Comprehensive	13002	13	production, and marketing.
			Industrial Arts courses expose students to the tools and machines that
			they may encounter in manufacturing-related occupations and enable
			them to develop the skills they need to use these tools in various
			applications. Course topics typically include (but are not limited to)
			drawing and planning, electricity, graphic arts, woodwork, leatherwork,
			metalwork, plastics, and power technology. These courses typically
Industrial Arts	13003	13	cover general safety and career exploration as well.
			Industrial Safety/First Aid courses provide students with instruction in
			safe operating procedures related to various trades, as well as more
			general training in emergency first aid and CPR. Course topics may
			include the importance of standard operation procedures, agencies and
			regulations related to occupational safety and hazard prevention, and
Industrial Safety/First Aid	13004	13	the dangers of particular materials.
			Materials and Processes courses expose students to the tools,
			machines, and processes that may be encountered in manufacturing-
			related occupations. In particular, these courses stress the analysis,
			testing, and processing of metals, plastics, woods, ceramics, and
Material and Processes	13052	13	composite materials.
			Metal and Wood Processing/Production courses include studying the
			properties of metals, woods, and composites and using these materials
			to construct usable products. These courses enable students to
			experience the process of translating an idea into a finished product,
			with instruction in planning, designing, selecting materials, and using
Metal and Wood Processing/Production	13053	13	tools and machines.

Wood Processing/Production	13054	13	Wood Processing/Production courses include studying the properties of woods and composites made from woods and using these materials to construct usable products. These courses enable students to experience the process of translating an idea into a finished product, with instruction in planning, designing, selecting materials, and using tools and machines.
Metal Processing/Production	13055	13	Metal Processing/Production courses include studying the properties of metals and metal alloys and using these materials to construct usable products. These courses enable students to experience the process of translating an idea into a finished product, with instruction in planning, designing, selecting materials, and using tools and machines.
	42056	12	Plastics Processing/Production courses include studying the properties of plastics and composites and using these materials to construct usable products. These courses enable students to experience the process of translating an idea into a finished product, with instruction in
Plastics Processing/Production	13056	13	planning, designing, selecting materials, and using tools and machines. Ceramic Processing/Production courses include studying the properties of ceramics and heatresistant composites and using these materials to construct usable products. These courses enable students to experience the process of translating an idea into a finished product, with instruction in planning, designing, selecting materials, and using tools
Ceramic Processing/Production	13057	13	and machines.
Particular Topics in Processing and Production	13058	13	These courses examine specific topics in processing and production, such as substance analysis, other than those already described. Processing/Production—Independent Study courses, often conducted
	42007	12	with instructors as mentors, enable students to explore topics of interest related to processing and production. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular specialization, to explore a topic in greater
Processing/Production—Independent Study	13097	13	detail, or to develop more advanced skills.

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			Processing/Production—Workplace Experience courses provide
			students with work experience in fields related to manufacturing
			processing and production. Goals are typically set cooperatively by the
			student, teacher, and employer (although students are not necessarily
			paid). These courses may include classroom activities as well, involving
			further study of the field or discussion regarding experiences that
Processing/Production—Workplace Experience	13098	13	students encounter in the workplace.
Processing/Production—Other	13099	13	Other Processing/Production courses.
			Production Systems courses provide students with knowledge and skills
			related to manufacturing technologies from conception through
			production. Although courses vary, students typically analyze markets,
			design and develop prototypes, plan a marketing or sales strategy,
			manage a production plan, and manufacture useful products. These
			courses may also explore the evolution and impact of technology on
Production Systems	13101	13	society's social, cultural, and economic systems and institutions.
			Electro-Mechanical Systems courses provide students with instruction
			and experience in components and equipment that use electricity and
			the power of physical forces. Students gain an understanding of the
			principles of electricity and mechanics and their application to gears,
			cams, levers, circuits, and other devices used in the manufacturing
Electro-Mechanical Systems	13102	13	process or within manufactured goods.
			Product Development courses provide students with the opportunity to
			focus on one or more areas of industrial technology, creatively pursuing
			new knowledge or solving a technological problem, by designing and
			building prototypes and working models. Students learn and apply
Product Development	13103	13	appropriate information in order to complete a project.
			Production Systems—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics of interest
			related to manufacturing systems and/or research. Independent Study
			courses may serve as an opportunity for students to expand their
			expertise in a particular specialization, to explore a topic in greater
Production Systems—Independent Study	13147	13	detail, or to develop more advanced skills.

			Production Systems—Workplace Experience courses provide students
			with work experience in fields related to manufacturing systems and/or
			research. Goals are typically set cooperatively by the student, teacher,
			and employer (although students are not necessarily paid). These
			courses may include classroom activities as well, involving further study
		4.0	of the field or discussion regarding experiences that students encounter
Production Systems—Workplace Experience	13148	13	in the workplace.
Production Systems—Other	13149	13	Other Production Systems courses.
			Metalwork Occupations courses provide students with theoretical
			principles and laboratory experiences related to the planning,
			manufacturing, assembling, testing, and repairing of parts, mechanisms,
			and structures in which materials are cast, formed, treated, cut, fused,
Metalwork Occupations	13201	13	or otherwise processed in some fashion.
			Metalworking courses introduce students to the qualities and
			applications of various metals and the tools used to manipulate and
			form metal into products. Through one or more projects involving
			metals, students develop planning, layout, and measurement skills; gain
			experience in cutting, bending, forging, casting, and/or welding metal;
			complete projects according to blueprints or other specifications; and
			may also learn to polish and finish metals. Correct use of metalworking
Metalworking	13202	13	tools and equipment is stressed.
			Machining courses enable students to create metal parts using various
			machine tools and equipment. Course content may include interpreting
			specifications for machines using blueprints, sketches, or descriptions
			of parts; preparing and using lathes, milling machines, shapers, and
			grinders with skill, safety, and precision; developing part specifications;
Machining	13203	13	and selecting appropriate materials.
			These courses examine specific topics related to machining,
			emphasizing a particular type of machine, tool, or procedure, or
Particular Topics in Machining	13204	13	concentrating on a particular application of machining techniques.
			or a barreas abbreas and accommendation

			Sheet Metal courses expose students to the skills and information
			necessary to lay out, fabricate, assemble, install, maintain, and repair
			items and structures created from sheet metal components. Students
			learn the safe and efficient operation of various tools and typically gain
Sheet Metal	13205	13	skill in blueprint reading, welding, and finishing and polishing metals.
			In these courses students gain knowledge and skills in particular aspects
			of sheet metal. Examples include individual courses in radial line
Particular Topics in Sheet Metal	13206	13	development, triangulation fabrication, and so on.
			Welding courses enable students to gain knowledge of the properties,
			uses, and applications of various metals, skills in various processes used
			to join and cut metals (such as oxyacetylene, shielded metal, metal
			inert gas, and tungsten arc processes), and experience in identifying,
			selecting, and rating appropriate techniques. Welding courses often
			include instruction in interpreting blueprints or other types of
Velding	13207	13	specifications.
			In these courses students gain knowledge and skills in particular aspects
			of welding. Examples include individual courses in each of the following
			types of welding: gas metal, gas tungsten, and shielded metal and flux
Particular Topics in Welding	13208	13	core arc welding.
			In these courses students gain knowledge and skills in particular aspects
			of metalwork (such as foundry work or metallurgy) not otherwise
Particular Topics in Metalwork	13209	13	described.
			A comprehensive, technical level course designed to provide students
			with the basic theories, equipment and skills needed to efficiently
Machine Tool Technology 1a	13210	13	operate machining equipment.
			Metalwork—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore metalwork-related
			topics of interest. Independent Study courses may serve as an
			opportunity for students to expand their expertise in a particular
			specialization, to explore a topic in greater detail, or to develop more
Metalwork—Independent Study	13247	13	advanced skills.

Metalwork—Workplace Experience	13248	13	Metalwork—Workplace Experience courses provide students with work experience in the welding, machine technologies, or metalwork fields. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.
Metalwork—Other	13249	13	Other Metalwork courses.
Appliance Repai	13301	13	Appliance Repair courses provide students with the knowledge and experience to repair, install, service, and inspect appliances such as stoves, refrigerators, washers, dryers, air conditioners, water heaters, and so on. Students gain an understanding of the mechanics and working systems of these appliances, the skills to read blueprints and specifications, and proficiency in using related tools and products.
			Equipment Maintenance and Repair courses prepare students to adjust, maintain, replace, and repair parts of machinery and to repair tools, equipment, and machines. The courses may have a general emphasis or may focus on a specific type of machinery or equipment related to a particular industry. Depending upon the intent, course topics may include electric, hydraulic, or mechanic systems; control devices, valves,
Equipment Maintenance and Repair	13302	13	and gates; or supplemental equipment such as fans, hoses, and pipes. Repair—Independent Study courses, often conducted with instructors as mentors, enable students to explore topics related to repair. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular specialization, to explore a topic in
Repair—Independent Study	13347	13	greater detail, or to develop more advanced skills.

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			Repair—Workplace Experience courses provide students with work
			experience in the fields involving repair, supported by classroom
			attendance and discussion. Goals are typically set cooperatively by the
			student, teacher, and employer (although students are not necessarily
			paid). These courses may include classroom activities as well, involving
			further study of the field or discussion regarding experiences that
Repair—Workplace Experience	13348	13	students encounter in the workplace.
Repair—Other	13349	13	Other Repair courses.
			Manufacturing—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics related to
			manufacturing. Independent Study courses may serve as an opportunity
			for students to expand their expertise in a particular specialization, to
Manufacturing—Independent Study	13997	13	explore a topic in greater detail, or to develop more advanced skills.
			Manufacturing—Workplace Experience courses provide students with
			work experience in fields involving manufacturing, supported by
			classroom attendance and discussion. Goals are typically set
			cooperatively by the student, teacher, and employer (although students
			are not necessarily paid). These courses may include classroom
			activities as well, involving further study of the field or discussion
Manufacturing—Workplace Experience	13998	13	regarding experiences that students encounter in the workplace.
Manufacturing—Other	13999	13	Other Manufacturing courses.
			Exploration of Health Care Occupations courses expose students to the
			variety of opportunities available within the health care industry (e.g.,
			such as nursing, therapy, dental care, administrative services, and lab
			technology). These courses provide experiences in several of these
			occupational clusters, along with information and knowledge related to
Exploration of Health Care Occupations	14001	14	the health care industry as a whole.

			Health Care Occupations—Comprehensive courses provide students with an orientation to the health care industry and help refine their health care-related knowledge and skills. Topics covered usually include (but are not limited to) an overview of health care delivery; patient
			care, including assessment of vital signs, body mechanics, and diet;
			anatomy and physiology; identification and use of medical equipment
			and supplies; medical terminology; hygiene and disease prevention;
			first aid and CPR procedures; laboratory procedures; and ethical and
Health Care Occupations—Comprehensive	14002	14	legal responsibilities.
·			Nursing courses place a special emphasis on the particular knowledge
			and skills required of nurses and/or nursing assistants and aides while
			covering general health care topics (i.e., patient care, anatomy and
			physiology, medical terminology, hygiene and disease prevention, first
			aid and CPR, and laboratory procedures). Topics covered typically
			include normal growth and development; bathing, feeding, dressing,
			and transporting patients; basic pharmacology; doctor, nurse, and
			patient relationships and roles; medical and professional ethics; death
			and dying; and care of various kinds of patients (e.g., chronically ill,
Nursing	14051	14	children, new mothers, and so on).
			Covering the same scope of topics as Nursing courses, Nursing—LPN
			courses delve into more depth in order to prepare students for the
			state's practical nurse licensing examination. Nursing—LPN courses
			offer the knowledge and experience needed to provide nursing care for
			patients of all ages, in various stages of sickness or health, and with a
			variety of disease conditions. Additional topics covered may include
			community health, nutrition, drug therapy and administration, and
Nursing—LPN	14052	14	mental illness.

Home Health Care	14053	14	Home Health Care courses teach students how to care for individuals within their homes. Course content relates health care practices and procedures to the home environment, and typically includes 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. Topics covered may also include therapy strategies, household management, and employability.
Dental Science	14054	14	Dental Science courses expose students to the tools, terminology, and procedures necessary for a career in the dental industry. Course content covers a wide range of topics and typically includes dental anatomy and terminology; the identification and use of dental equipment; dental pathologies and procedures; asepsis; dental laboratory procedures; emergency first aid; and the ethical and legal responsibilities of dental care workers. These courses often explore dental specialties and career options.
Emergency Medical Technology	14055	14	Emergency Medical Technology courses place a special 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. The courses may also cover the legal and ethical responsibilities involved in dealing with medical emergencies.
Surgical Technology	14056	14	Surgical Technology courses emphasize the care and needs of patients undergoing surgery while covering general health care topics (i.e., patient care, anatomy and physiology, medical terminology, hygiene and disease prevention, first aid and CPR, and laboratory procedures). In keeping with that focus, topics may include operation room materials, tools, and procedures; aseptic surgical techniques; preparation and handling of surgical instruments; efficiency in the operating room; and the roles of various medical personnel who are present during surgery.

	I	I	Vision Core courses suppose students to the tools township large and
			Vision Care courses expose students to the tools, terminology, and
			procedures necessary for a career in the optometric or optic field.
			Vision Care courses typically include the physics of light and refraction;
			the anatomy, physiology, and terminology associated with the eyes;
			identification and use of optometric and/or optical equipment; optical
			procedures; human relations; and the ethical and legal responsibilities
Vision Care	14057	14	of vision care workers.
			Optometrics courses provide students with the knowledge, ability, and
			experiences to prepare, assemble, and/or fit corrective lenses
			prescribed by a physician or optometrist. Topics covered may include
			layout and marking, cutting and chipping, edging and beveling,
Optometrics	14058	14	inspection, alignment, dispensing, and selection of eyewear.
			Gerontology courses provide students with knowledge and
			understanding of the processes of adult development and aging. Topics
			covered may include the study of the biological, economic,
Gerontology	14059	14	psychological, social, and health/fitness aspects of the aging process.
			Physical Therapy courses provide students with the knowledge and
			skills necessary to work with patients who need to achieve and
			maintain functional rehabilitation and to prevent malfunction or
			deformity. Topics covered typically include therapeutic exercises and
			activities (such as stretching and strengthening), how to train patients
			to perform the activities of daily living, the use of special equipment,
Physical Therapy	14060	14	and evaluation of patient progress.
			Respiratory Therapy courses provide students with the knowledge and
			skills necessary to work with patients who have breathing or other
			cardiopulmonary difficulties or disorders. Topics covered typically
			include identifying deficiencies and abnormalities of the
			cardiopulmonary system, understanding the various methods of
Respiratory Therapy	14061	14	therapies, and understanding how to use special equipment.
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			Care of Athletes courses provide students with the knowledge and skills to understand and perform therapeutic tasks that would be designated by an athletic or fitness trainer. Topics covered may include taping and bandaging, proper use of protective padding, treatment modalities, anatomy and physiology, and medical terminology. Students may learn to measure cardiorespiratory endurance, muscular strength and
			endurance, flexibility, body composition, and blood pressure. More advanced topics may include injury assessment, the phases of healing,
			and the use of exercise and equipment to help in the reconditioning of
Care of Athletes	14062	14	injured athletes.
			These courses examine particular topics in medical therapeutic services
Particular Topics in Therapeutic Services	14063	14	other than those already described.
			Sports Medicine I will provide students an overview of the specialized
			health care needed in the wide world of sports and physical activity.
			Students will learn what sports medicine is and the multidisciplinary
			approach to athletic health care. The course will also introduce
			students to basic body systems in addition to the physical and mental
			demands of physical activity at all levels. The students will be
			introduced to such things as kinesiology, bleeding and shock, the bones
			and soft tissue, the foot, ankle, and lower leg, the knee, the hip and
			pelvis, the elbow, wrist, and hand, the shoulder, the chest and
			abdomen, the head and face, the spine, and lastly special
Sports Medicine I	14072	14	considerations in athletes.

			Sports Medicine II will provide students a hands-on approach to Athletic
			Training. Topics to be covered are the central training room, the
			athletic training student-aid program, emergency preparedness, injury
			game plan, the pre-participation physical examination, rehabilitation
			and preseason conditioning, nutrition and the athlete, dietary
			supplements and performance enhancers, sports psychology,
			assessment and evaluation of sports injuries, therapeutic physical
			modalities, and proper taping and wrapping. This course allows
			students to do a series of clinical internships with medical professionals
			in the community pertaining to sports medicine. These internships are
			designed for students who have a serious interest in pursuing a career
Sports Medicine II	14073	14	in the sports medicine field.
			Therapeutic Services—Independent Study courses, often conducted
			with instructors as mentors, enable students to explore topics of
			interest related to therapeutic services. Independent Study courses
			may serve as an opportunity for students to expand their expertise in a
			particular specialization, to explore a topic in greater detail, or to
Therapeutic Services—Independent Study	14097	14	develop more advanced skills.
			Therapeutic Services—Workplace Experience courses provide students
			with work experience in fields related to therapeutic services. Goals are
			typically set cooperatively by the student, teacher, and employer
			(although students are not necessarily paid). These courses may include
			classroom activities as well, involving further study of the field or
			discussion regarding experiences that students encounter in the
Therapeutic Services—Workplace Experience	14098	14	workplace.
Therapeutic Services—Other	14099	14	Other Therapeutic Services courses.
			Dental Laboratory Technology courses expose students to the
			principals, tools, terminology, and procedures necessary for a career in
			a dental laboratory. These courses typically cover many of the same
			topics as Dental Science, but emphasize making mouth guards, taking
			impressions, creating various types of dental molds and models, and
Dental Laboratory Technology	14101	14	fabricating prostheses and dental appliances.

			Medical Lab Technology courses provide students with the knowledge and skills necessary for employment in health care-related laboratories. Topics include basic principles of anatomy and physiology, relevant concepts in microbiology and chemistry, and laboratory techniques
			(including preparation and analysis of various cultures and specimens).
			The courses may also cover such components as venipuncture, EKG,
Medical Lab Technology	14102	14	and CPR procedures.
EKG Technology	14103	14	In EKG Technology courses, students acquire the knowledge and skills to perform electrocardiograph activities and learn about the cardiovascular system (including its function, diseases, and rhythms); EKG machinery; and the use of drugs and their effects. These courses usually include general health care topics as well, such as basic anatomy and physiology, patient care, first aid and CPR, identification and use of medical equipment, and medical terminology.
			In Phlebotomy courses, students acquire knowledge, skills, and experiences related to the drawing of blood and typically learn about
			such topics as infection control, sterilization practices, medical/hospital
			procedures and environments, diagnostic procedures, and the process
Phlebotomy	14104	14	of drawing blood.
	1		These courses examine particular topics in diagnostic services other
Particular Topics in Diagnostic Services	14105	14	than those already described.
			Diagnostic Services—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics related to
			diagnostic services. Independent Study courses may provide students
			with an opportunity to expand their expertise in a particular
			specialization, to explore a topic in greater detail, or to develop more
Diagnostic Services—Independent Study	14147	14	advanced skills.

			Diagnostic Services—Workplace Experience courses provide students with work experience in fields related to diagnostic services. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the
Diagnostic Services—Workplace Experience	14148	14	workplace.
Diagnostic Services—Other	14149	14	Other Diagnostic Services courses.
Medical/Clerical Assisting	14151	14	Medical/Clerical Assisting courses enable students to develop knowledge and skills that combine the medical and clerical fields. Students typically develop skills such as patient exam preparation, assessment of vital signs, routine lab procedures, medical transcription, financial accounting, patient and insurance company billing, and record-keeping.
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			Pharmacy Assisting courses emphasize the knowledge and skills necessary to assist a pharmacist or pharmacy technician. Course topics and experiences enable students to understand medical terminology, keep and maintain records, label medications, perform computer patient billing, perform stock inventory, and order supplies. These courses also emphasize pharmaceutical classification, drug interactions,
Pharmacy Assisting	14152	14	and interpersonal/communication skills.
			Medical Office Procedures courses expose students to clerical knowledge, abilities, and procedures as they apply to the medical field. These courses typically include (but are not limited to) topics such as medical transcription, medical insurance, financial accounting, scheduling, and patient record-keeping. Medical terminology and routine medical procedures are covered to provide a context for clerical
Medical Office Procedures	14153	14	duties.

			In Medical Terminology courses, students learn how to identify medical terms by analyzing their components. These courses emphasize
			defining medical prefixes, root words, suffixes, and abbreviations. The
			primary focus is on developing both oral and written skills in the
Medical Terminology	14154	14	language used to communicate within health care professions.
			These courses examine particular topics in health Information other
Particular Topics in Health Information	14155	14	than those already described.
			Health Information—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics related to
			health information systems. Independent Study courses may provide
			students with an opportunity to expand their expertise in a particular
			specialization, to explore a topic in greater detail, or to develop more
Health Information—Independent Study	14197	14	advanced skills.
			Health Information—Workplace Experience courses provide students
			with work experience in fields related to health Information. Goals are
			typically set cooperatively by the student, teacher, and employer
			(although students are not necessarily paid). These courses may include
			classroom activities as well, involving further study of the field or
			discussion regarding experiences that students encounter in the
Health Information—Workplace Experience	14198	14	workplace.
Health Information—Other	14199	14	Other Health Information courses.
			Central Service Technology courses provide students with knowledge
			and skills related to the procurement, handling, storage, and
			distribution of sterile goods and equipment. Course components
			usually include quality assurance, infection control and isolation
			techniques, medical terminology and processes, decontamination and
Central Service Technology	14201	14	sterilization, microbiology, and chemistry.
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			Health Support Services courses provide students with knowledge and skills to be used in activities that support patients' primary health care, such as counseling, health education, disease management, and risk reduction. Because support services can be widely defined, course
			topics typically also include general health care, such as anatomy and
			physiology, medical terminology, first aid and CPR procedures, and
Health Support Services	14202	14	ethical and legal responsibilities.
			Health Unit Coordination courses provide students with instruction and
			experiences so that they can manage components of nonpatient care
			activities in health care facilities. Topics covered usually include medical
			terminology, transcription, and general reception duties and
			responsibilities; recordkeeping; and stocking medical and office supplies
Health Unit Coordination	14203	14	and equipment.
			These courses examine particular topics in health support services
Particular Topics in Support Services	14204	14	other than those described.
			Health Support Services—Independent Study courses, often conducted
			with instructors as mentors, enable students to explore topics related
			to health support services. Independent Study courses may provide
			students with an opportunity to expand their expertise in a particular
			specialization, to explore a topic in greater detail, or to develop more
Health Support Services—Independent Study	14247	14	advanced skills.
			Health Support Services—Workplace Experience courses provide
			students with work experience in careers related to health support
			services. Goals are typically set cooperatively by the student, teacher,
			and employer (although students are not necessarily paid). These
			courses may include classroom activities as well, involving further study
			of the field or discussion regarding experiences that students encounter
Health Support Services—Workplace Experience	14248	14	in the workplace.
Health Support Services—Other	14249	14	Other Health Support Services courses.
			Health Science courses integrate chemistry, microbiology, chemical
			reactions, disease processes, growth and development, and genetics
			with anatomy and physiology of the body systems. Typically, these
			courses reinforce science, mathematics, communications, health, and
Health Science	14251	14	social studies principles and relate them to health care.

Biotechnology	14252	14	Biotechnology courses involve the study of the bioprocesses of organisms, cells, and/or their components and enable students to use this knowledge to produce or refine products, procedures, and techniques. Course topics typically 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 may include elements of biochemistry, genetics, and protein purification techniques.
1.07			Pharmacology courses involve a study of how living animals can be
			changed by chemical substances, especially by the actions of drugs and
			other substances used to treat disease. Basic concepts of physiology,
			pathology, biochemistry, and bacteriology are typically brought into
			play as students examine the effects of drugs and their mechanisms of
Pharmacology	14253	14	action.
			These courses examine particular topics in health sciences other than
Particular Topics in Health Sciences	14254	14	those already described.
Biomedical Innovcation	14255	14	In this capstone course, students will design and conduct experiments related to the diagnosis, treatment, and prevention of disease or illness. They will apply their knowledge and skills to answer questions or to solve problems related to the biomedical sciences. They may work with a mentor or advisor from a university, hospital, physician's office, or industry as they complete their work. Students will be expected to present the results of their work to an adult audience, which may include representatives from the local healthcare or business community or the school's biomedical partnership team.
Health Sciences—Independent Study	14297	14	Health Sciences—Independent Study courses, often conducted with instructors as mentors, enable students to explore health-related topics of interest. Independent Study courses may provide students with an opportunity to expand their expertise in a particular specialization, to explore a topic in greater detail, or to develop more advanced skills.

			Health Sciences—Workplace Experience courses provide students with work experience in fields involving the health sciences. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the
Health Sciences—Workplace Experience	14298	14	workplace.
Health Sciences—Other	14299	14	Other Health Sciences courses.
Health Care Sciences—Independent Study	14997	14	Health Care Sciences—Independent Study courses, often conducted with instructors as mentors, enable students to explore health-related topics of interest. Independent Study courses may provide students with an opportunity to expand their expertise in a particular specialization, to explore a topic in greater detail, or to develop more advanced skills.
Health Care Sciences—Workplace Experience	14998	14	Health Care Sciences—Workplace Experience courses provide students with work experience in the health care industry. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.
Health Care Sciences—Other	14999	14	Other Health Care Sciences courses.
			Exploration of Public Service Careers courses expose students to the duties, responsibilities, requirements, and career opportunities within public service. Course topics vary and may include (but are not limited to) protective services; correction, judicial, and probation services; fire protection and fire fighting; public administration; and social work.
Exploration of Public Service Careers	15001	15	Course activities depend upon the career clusters that students explore.

			Tarana and a same and a
			Criminal Justice courses train students to understand and apply the
			principles and procedures essential to the U.S. criminal justice system.
			These courses explore the principles and structure of the justice system
			and the law, and course content also typically includes investigation,
			search and arrest, and laboratory, forensic, and trial procedures.
			Students may also learn CPR and first aid skills, personal defense tactics,
Criminal Justice	15051	15	and crime prevention techniques.
			Corrections courses provide instruction regarding the principles and
			techniques used by institutions that incarcerate, rehabilitate, and
Corrections	15052	15	monitor people accused or convicted of crimes.
			These courses examine specific topics related to law enforcement (such
Particular Topics in Law Enforcement	15053	15	as forensic science), rather than provide a general study of the field.
			Law Enforcement—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics of interest
			related to law enforcement. 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
Law Enforcement—Independent Study	15097	15	advanced skills.
			Law Enforcement—Workplace Experience courses provide work
			experience in fields related to law enforcement. Goals are typically set
			cooperatively by the student, teacher, and employer (although students
			are not necessarily paid). These courses may include classroom
			activities as well, involving further study of the field or discussion
Law Enforcement—Workplace Experience	15098	15	regarding experiences that students encounter in the workplace.
Law Enforcement—Other	15099	15	Other Law Enforcement courses.
			Public Safety courses introduce students to the field of public safety
			and extend their knowledge and skills pertaining to the safety and
			security of homes, workplaces, and the community. These courses
			cover such topics as policing, law enforcement, emergency service, and
			private security and corrections and may cover all or a subset of these
Public Safety	15101	15	services.
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			Security Services courses provide instruction regarding the safety and
			security of buildings and facilities and may extend these lessons to
Security Services	15102	15	include the security and safety of one's self and other human beings.
			These courses examine specific topics related to security and protective
Particular Topics in Security	15103	15	services, rather than provide a general study.
			Security and Protection—Independent Study courses, often conducted
			with instructors as mentors, enable students to explore topics of
			interest related the security and protection of the public. 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,
Security and Protection—Independent Study	15147	15	or to develop more advanced skills.
			Security and Protection—Workplace Experience courses provide work
			experience in fields related to security and protection. Goals are
			typically set cooperatively by the student, teacher, and employer
			(although students are not necessarily paid). These courses may include
			classroom activities as well, involving further study of the field or
			discussion regarding experiences that students encounter in the
Security and Protection—Workplace Experience	15148	15	workplace.
Security and Protection—Other	15149	15	Other Security and Protection courses.
			Fire Science courses introduce students to the field of fire prevention
			and control and enable them to extend their knowledge through the
			use of chemical, physical, and engineering principles to understand
			factors involved in fires. Course topics typically include the chemistry of
			combustion, factors that influence fire (such as structural design and
Fire Science	15151	15	meteorology), and safety procedures.
			Fire Fighting courses offer students the opportunity to learn fire
			prevention and control under controlled conditions. Typically, students
			learn about the organization, rules, requirements, and regulations of
			fire departments; study and practice the tools and techniques used by
			firefighters to control or extinguish fires; and examine the behavior of
			fires. These courses also usually include emergency medical procedures
Fire Fighting	15152	15	and present fire investigation techniques.

		These courses examine specific topics related to fire management (such
45450	4.5	as hazardous materials handling), rather than provide a general study of
15153	15	the field.
		Fire Management—Independent Study courses, often conducted with
		instructors as mentors, enable students to explore topics of interest
		related fire management. 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
15197	15	advanced skills.
		Fire Management—Workplace Experience courses provide work
		experience in fields related to fire management. Goals are typically set
		cooperatively by the student, teacher, and employer (although students
		are not necessarily paid). These courses may include classroom
		activities as well, involving further study of the field or discussion
		regarding experiences that students encounter in the workplace.
15199	15	Other Fire Management courses.
		Public Administration courses provide an overview of the structure,
		roles, and duties of public governments and associated agencies. These
		courses explore the foundation and evolution of the public service
		sector, issues related to the provision of services by governmental
		bodies, and the missions and constraints of various departments within
		local and state governments. In addition, students may explore a
		particular public administration topic (such as the tax base and
		structure, the legislative process, selection of public servants, resource
15201	15	management, and so on) in greater detail.
		Community Protection courses provide students with information
		regarding the personnel and agencies concerned with protection of the
		home, city, state, and nation. Topics covered typically include civil
		defense and disaster preparedness; crime prevention; pollution control;
		fire prevention and control; legal and social systems and principles; and
		public health. These topics may be explored from the viewpoint of a
		community resident and citizen using these services or of that of one
15202		interested in pursuing a public service career.
	15198 15199	15197 15 15198 15 15199 15

		Public Policy courses provide students with the opportunity to design,
		propose, and analyze programs and policies implemented by
		government agencies. Activities typically include identifying social
		issues and problems, generating recommendations, using data to
		quantify the extent of a problem or evaluate its solution,
		communicating ideas and findings, and understanding decision-making
15203	15	processes.
		Government Service—Independent Study courses, often conducted
		with instructors as mentors, enable students to explore topics of
		interest related the provision of government services. Independent
		Study courses may serve as an opportunity for students to expand their
		expertise in a particular application, to explore a topic in greater detail,
15247	15	or to develop more advanced skills.
		Government Service—Workplace Experience courses provide work
		experience in fields related to government service. Goals are typically
		set cooperatively by the student, teacher, and employer (although
		students are not necessarily paid). These courses may include
		classroom activities as well, involving further study of the field or
		discussion regarding experiences that students encounter in the
15248	15	workplace.
15249	15	Other Government Service courses.
		Public, Protective, and Government Service—Independent Study
		courses, often conducted with instructors as mentors, enable students
		to explore topics of interest related to public, protective, and
		government service. 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
15997	15	advanced skills.
	15248 15249	15247 15 15248 15 15249 15

courses provide students with work experience in a field related to public, protective, and/or government service. Goals are typically se cooperatively by the student, teacher, and employer (although student are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace. Public, Protective, and Government Service—Other 15999 15 Other Public, Protective, and Government Service courses. Exploration of Hospitality Careers courses survey a wide array of top while exposing students to the variety of career opportunities in hospitality fields (such as food service, lodging, tourism, and recreation). These courses serve to introduce students to the general field of hospitality, providing an opportunity to identify a focus for continued study. Exploration of Restaurant, Food, and Beverage Services courses providents with an overview of the restaurant, food, and beverage service industry. Topics covered include industry terminology, the history of restaurant, food, and beverage services, introduction to		1		1
Exploration of Hospitality Careers courses survey a wide array of top while exposing students to the variety of career opportunities in hospitality fields (such as food service, lodging, tourism, and recreation). These courses serve to introduce students to the general field of hospitality, providing an opportunity to identify a focus for continued study. Exploration of Restaurant, Food, and Beverage Services courses provistudents with an overview of the restaurant, food, and beverage service industry. Topics covered include industry terminology, the history of restaurant, food, and beverage services, introduction to	·	15998	15	public, protective, and/or government service. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion
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students with an overview of the restaurant, food, and beverage service industry. Topics covered include industry terminology, the history of restaurant, food, and beverage services, introduction to	Exploration of Hospitality Careers	16001	16	hospitality fields (such as food service, lodging, tourism, and recreation). These courses serve to introduce students to the general field of hospitality, providing an opportunity to identify a focus for
Exploration of Restaurant, Food and Beverage Services 16051 16 marketing, and the various careers available in the industry.	Exploration of Restaurant, Food and Beverage Services	16051	16	service industry. Topics covered include industry terminology, the
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 Beverag Service courses may include both "back-of-the-house" and "front-of	Restaurant Food and Reverage Services—Comprehensive	16052	16	provide students with knowledge and skills related to commercial and institutional food service establishments. Course topics range widely, but usually include sanitation and safety procedures, nutrition and dietary guidelines, food preparation (and quantity food production), and meal planning and presentation. Restaurant, Food, and Beverage Service courses may include both "back-of-the-house" and "front-of-the house" experiences, and may therefore also cover reservation systems,

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			Food Service courses provide instruction regarding nutrition, principles
			of healthy eating, and the preparation of food. Among the topics
			covered are large-scale meal preparation, preserving nutrients
			throughout the food preparation process, use and care of commercial
			cooking equipment, food storage, advances in food technology,
			sanitation, management, and the careers available in the food service
Food Service	16053	16	industry.
			Nutrition and Food Preparation courses provide students with
			knowledge and skills about food preparation and/or production, with a
			strong emphasis on nutrition, balanced diets, and satisfying special
			dietary needs. Topics typically include assessing nutrient content, the
			science of food and nutrition, physiology and utilization of nutrients.
			Course content may also cover additives, contaminants, foodborne
Nutrition and Food Preparation	16054	16	illnesses, and food technology.
·			Restaurant Management and Operations courses provide students with
			knowledge and skills related to commercial and institutional food
			service establishments, with an emphasis on management. Course
			topics therefore include guest service and relationships, planning,
			resource management, and other topics related to managing and
Restaurant Management and Operations	16055	16	operating restaurants.
			Culinary Art Specialty courses provide instruction in a particular type of
			cooking or culinary style. Examples of such specialty fields include
			baking, creating and decorating wedding cakes, Middle Eastern cuisine,
			and so on. These courses emphasize skills specific to the type of
Culinary Art Specialty	16056	16	culinary art being studied.
·			These courses examine specific topics related to Restaurant, Food, and
Particular Topics in Restaurant, Food and Beverage			Beverage Services, such as catering, rather than provide a general study
Services	16057	16	of the industry or of specific topics already described.
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			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
Doctor work Food and Doctor of Consideration			opportunity for students to expand their expertise in a particular
Restaurant, Food and Beverage Services—Independent	4.6007	4.6	application, to explore a topic in greater detail, or to develop more
Study	16097	16	advanced skills.
			Restaurant, Food, and Beverage Services—Workplace Experience
			courses provide work experience in fields related to restaurant, food,
			and beverage services. Goals are typically set cooperatively by the
			student, teacher, and employer (although students are not necessarily
			paid). These courses may include classroom activities as well, involving
Restaurant, Food and Beverage Services—Workplace			further study of the field or discussion regarding experiences that
Experience	16098	16	students encounter in the workplace.
Restaurant, Food and Beverage Services—Other	16099	16	Other Restaurant, Food and Beverage Service courses.
			Exploration of Lodging Careers courses provide an overview of the
			lodging industry. Topics covered include lodging terminology, the
			history of lodging, introduction to marketing, and the various careers
Exploration of Lodging Careers	16101	16	available in the lodging industry.
			Lodging—Comprehensive courses introduce students to the lodging
			industry and refine their related knowledge and skills. Topics covered
			typically include property management, guest psychology and
			relationships, lodging operations, food and beverage services, and
Lodging—Comprehensive	16102	16	other topics related to support services within the lodging industry.
			Institutional Maintenance courses present the knowledge and skills
			required for service work within institutions. Topics covered typically
			include housekeeping and laundry services, care and cleaning of
			facilities, and safety and sanitation procedures, in addition to career
			opportunities, business responsibilities, and other types of ongoing
Institutional Maintenance	16103	16	maintenance.
			These courses examine specific topics in lodging such as convention
			planning or hotel management rather than provide a general study of
Particular Topics in Lodging	16104	16	the industry or of specific topics already described.

			Lodging—Independent Study courses, often conducted with instructors
			as mentors, enable students to explore topics of interest within the
			lodging industry. Independent Study courses may serve as an
			opportunity for students to expand their expertise in a particular
			application, to explore a topic in greater detail, or to develop more
Lodging—Independent Study	16147	16	advanced skills.
			Lodging—Workplace Experience courses provide work experience in
			fields related to lodging. Goals are typically set cooperatively by the
			student, teacher, and employer (although students are not necessarily
			paid). These courses may include classroom activities as well, involving
			further study of the field or discussion regarding experiences that
Lodging—Workplace Experience	16148	16	students encounter in the workplace.
Lodging—Other	16149	16	Other Lodging courses.
			Introduction to Travel and Tourism courses provide an overview of the
			travel and tourism industry. Topics covered in this course may include
			travel and tourism terminology, the history of travel, introduction to
Introduction to Travel and Tourism	16151	16	marketing, and the various careers available in travel and tourism.
			Travel and Tourism—Comprehensive courses provide the knowledge
			and skills necessary to work in the travel industry such as sales
			techniques, marketing principles, and entrepreneurial skills. Additional
			skills learned in these courses typically include travel agency
			procedures, airline reservation systems, public relations, hotel/motel
			registration systems and services, and conference and convention
Travel and Tourism—Comprehensive	16152	16	planning.
·			World Travel and Tourism courses provide the knowledge and skills
			necessary to work in the travel industry, with a focus on travel outside
			of the United States. Topics covered may include geography of the
			continents; customs, cultures, and tourist destinations in other
			countries; special documentation needed for international travel; and
World Travel and Tourism	16153	16	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-
Eco-tourism	16154	16	and off-site attractions and environmental and ecological principles.
			These courses examine specific topics in travel and tourism such as the
			airline reservation and ticketing system rather than provide a general
Particular Topics in Travel and Tourism	16155	16	study of the industry or of specific topics already described.
			Travel and Tourism—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics of interest
			within the travel and tourism industry. Independent Study courses may
			serve as an opportunity for students to expand their expertise in a
			particular application, to explore a topic in greater detail, or to develop
Travel and Tourism—Independent Study	16197	16	more advanced skills.
			Travel and Tourism—Workplace Experience courses provide work
			experience in fields related to travel and tourism. Goals are typically set
			cooperatively by the student, teacher, and employer (although students
			are not necessarily paid). These courses may include classroom
			activities as well, involving further study of the field or discussion
Travel and Tourism—Workplace Experience	16198	16	regarding experiences that students encounter in the workplace.
Travel and Tourism—Other	16199	16	Other Travel and Tourism courses.
			Exploration of Recreation, Amusement, and Attractions courses provide
			an overview of the recreation industry. Topics covered in this course
			may include industry terminology; the history of recreation,
			amusement, and attractions; introduction to marketing; and the various
Exploration of Recreation, Amusement and Attractions	16201	16	careers available in the industry.

provide students with the attitudes, skills, and knowledge needed for employment in theme parks, attractions and outdoor recreation facilities, exhibitions, and event planning. Topics covered may include planning trade shows, fairs, and conferences; outdoor recreation and management, financial transactions; salesmanship; guest services and satisfaction; culture and customs; computer and industry technology; eco-tourism; client information; and planning specialized events while incorporating themes, timelines, budgets, target audiences, agendas, and public relations. Recreation, Amusement and Attractions—Comprehensive 16202 16 These courses examine specific topics in recreation, amusement, and attractions such as local opportunities rather than provide a general study of the industry. Recreation, Amusement, and Attractions—Independent Study courses, often conducted with instructors as mentors, enable students to explore topics of interest within the recreation, amusement, and attractions industry. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular application, to explore a topic in greater detail, or to develop more advanced skills. Recreation, Amusement and Attractions—Workplace Experience Experience 16248 16 Other Recreation, Amusement and Attractions courses. Recreation, Amusement and Attractions—Other 16249 16 Other Recreation, Amusement in the workplace. Recreation, Amusement and Attractions courses. Hospitality and Tourism—Independent Study courses, often conducted with instructors as mentors, enable students to expond their expertise in a particular application, to explore a topic in greater detail, or to develop more advanced skills.		\Box		Recreation, Amusement, and Attractions—Comprehensive courses
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facilities, exhibitions, and event planning. Topics covered may include planning trade shows, fairs, and conferences; outdoor recreation and management; financial transactions; salesmanship; guest services and satisfaction; culture and customs; computer and industry technology; eco-tourism; client information; and planning specialized events while incorporating themes, timelines, budgets, target audiences, agendas, and public relations. Recreation, Amusement and Attractions—Comprehensive 16202 16 These courses examine specific topics in recreation, amusement, and attractions such as local opportunities rather than provide a general study of the industry. Recreation, Amusement, and Attractions—Independent Study courses, often conducted with instructors as mentors, enable students to explore topics of interest within the recreation, amusement, and attractions industry. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular application, to explore a topic in greater detail, or to develop more advanced skills. Recreation, Amusement and Attractions—Workplace Experience 16248 16 Other Recreation, Amusement and Attractions of the field or discussion regarding experiences that students encounter in the workplace. Recreation, Amusement and Attractions—Other 16249 16 Other Recreation, amusement and Attractions courses. Hospitality and Tourism—Independent Study courses, often conducted with instructors as mentors, enable students to expend their expertise in a particular application, to explore a topic in greater detail, or to develop more advanced skills. Recreation, Amusement, and Attractions—Workplace Experience courses provide work experience in fields related to recreation, amusement, and attractions. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that stud				l' -
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Hospitality and Tourism—Independent Study 16997 16 or to develop more advanced skills.				expertise in a particular application, to explore a topic in greater detail,
	Hospitality and Tourism—Independent Study	16997	16	or to develop more advanced skills.

			Hospitality and Tourism—Workplace Experience courses provide work experience in fields related to hospitality and tourism. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the
Hospitality and Tourism—Workplace Experience	16998	16	workplace.
Hospitality and Tourism—Other	16999	16	Other Hospitality and Tourism courses.
			Construction Career Exploration courses expose students to the
			opportunities available in construction-related trades, such as
			carpentry, masonry, air conditioning/refrigeration, plumbing, and so on.
			Students learn about the processes involved in construction projects
			and may engage in a variety of small projects. These courses emphasize
			responsibilities, qualifications, work environment, rewards, and career
Construction Careers Exploration	17001	17	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 structures, installing utilities, finishing surfaces,
Construction—Comprehensive	17002	17	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	17	include career exploration, good work habits, and employability skills.
			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
Framing Carpentry	17004	17	painting.
Particular Topics in Carpentry	17005	17	These courses cover specific aspects of building construction or carpentry. All coursework focuses upon a particular skill or set of skills related to one subtopic, such as floor framing, wall and partition framing, interior finishing, or exterior finishing.
Tarticular Topics III Carpentily	17003	1/	Woodworking courses introduce students to the various kinds of woods used in industry and offer experience in using selected woodworking tools. Students design and construct one or more projects and may prepare a bill of materials. Correct and safe use of tools and equipment is emphasized. As students advance, they focus on learning the terminology necessary to use power tools successfully, developing skills to safely use these tools in the workshop and becoming familiar with various kinds of wood-finishing materials. Advanced students typically design a project, prepare bills of materials, construct, and finish
Woodworking	17006	17	proposed projects.

			Cabinetmaking courses provide students with experience in
			constructing cases, cabinets, counters, and other interior woodwork.
			Students learn to distinguish between various types of furniture
			construction and their appropriate applications, and how to use various
			woodworking machines and power tools for cutting and shaping wood.
			Cabinetmaking courses cover the different methods of joining pieces of
			wood, how to use mechanical fasteners, and how to attach hardware.
			Initial topics may resemble those taught in Woodworking courses; more
			advanced topics may include how to install plastic laminates on
Cabinetmaking	17007	17	surfaces and how to apply spray finishes.
			Masonry courses enable students to learn to construct interior and
			exterior walls, columns, doorways, window openings, fireplaces,
			chimneys, and foundations from brick and concrete block. Along with
			other activities, students may mix and spread cement and mortar, read
			blueprints and plans, and estimate materials needed for a project.
			Other topics may also include how to layout buildings on footings and
Masonry	17008	17	how to establish grades using a surveying transit.
			Building Maintenance courses train students to maintain commercial,
			industrial, and residential buildings and homes. Instruction is provided
			in the basic maintenance and repair of air conditioning, heating,
			plumbing, electrical, and other mechanical systems. Topics covered
			may include identifying and using hand and power tools safely;
			installing and repairing floor coverings, walls, and ceilings; installing and
			repairing doors, windows, screens, and cabinets; applying finishes to
			prepared surfaces; and repairing roofs, masonry, plumbing, and
Building Maintenance	17009	17	electrical systems.
			Home Maintenance courses provide students with knowledge and skills
			related to devices and systems found in the home. Course content may
			include electrical wiring, plumbing, window and door repair and
			installation, wall and floor repair and finishing, furniture repair and
Home Maintenance	17010	17	finishing, and small appliance repair.
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			Wall Finishings courses prepare students to finish exterior or interior
			surfaces by applying protective coating materials such as paint, lacquer,
			wallpaper, plaster, or stucco. Course topics may include instruction in
			making, mixing, and matching paint colors; applying coating with
			various types of equipment; applying wallpaper; lathing, preparing
 Wall Finishings	17011	17	surfaces, smoothing, and finishing.
Wall 1 1113111163	17011		Upholstering courses prepare students in all aspects of upholstering
			furniture. Topics covered may include installing, repairing, arranging,
			and securing the springs, filler, padding and cover materials of chairs,
			couches and mattresses; cutting, sewing and trimming; cushion filling,
Upholstering	17012	17	tufting, and buttoning; and wood refinishing.
opholstering	17012	1/	A course to introduce students to the basic skills pertaining to
Commercial Construction Technology	17014	17	commercial construction.
Commercial construction recimology	17014		Comprehensive and application courses designed to teach knowledge
Commercial Construction Careers	17015	17	and skills required to construct commercial buildings.
Heavy Highway Construction	17013	17	Heavy Highway Construction.
Theavy Frightway Construction	17010	1/	General Construction—Independent Study courses, often conducted
			with instructors as mentors, enable students to explore construction-
			related topics of interest. Independent Study courses may serve as an
			opportunity for students to expand their expertise in a particular
			application, to explore a topic in greater detail, or to develop more
Conoral Construction Indonondent Study	17047	17	advanced skills.
General Construction—Independent Study	1/04/	1/	auvaniceu skiiis.
			General Construction—Workplace Experience courses provide work
			experience in a field related to construction. Goals are typically set
			'
			cooperatively by the student, teacher, and employer (although students
			are not necessarily paid). These courses may include classroom
	1-01-	4-	activities as well, involving further study of the field or discussion
General Construction—Workplace Experience	17048	17	regarding experiences that students encounter in the workplace.
General Construction—Other	17049	17	Other General Construction courses.

			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	17	installing components of air conditioning systems.
			Refrigeration courses provide students with exposure to and training in
			the theories, equipment, and skills needed to design, install, and repair
			commercial and residential refrigeration systems. Course topics
			typically include the theory of thermodynamics, measurement of
			pressures and temperatures, components and common accessories of
Refrigeration	17052	17	refrigeration systems, and repair and safety procedures.
			Heating courses offer students training specific to the design,
			installation, and repair of heating systems for residential use. Topics
			typically include electric, gas, and/or steam systems; ventilation
			procedures; safety practices; and installation and trouble-shooting
Heating	17053	17	techniques.
			Air Conditioning/Refrigeration courses enable students to develop the
			combined skills and knowledge to install, maintain, adjust, and repair
Air Conditioning/Refrigeration	17054	17	both air conditioning and refrigeration systems.
			In Air Conditioning, Heating, and Refrigeration courses, students learn
			the basic principles of these systems, along with how to identify and
Air Conditioning, Heating, and Refrigeration	17055	17	safely use tools/equipment used in the trade.
			These courses synthesize basic and advanced principles in heating,
			ventilation, and air conditioning and include topics such as air filtration
			methods, humidity control, and the installation and maintenance of
			heat pumps, furnaces, and air conditioners. Students also learn about
			climate control systems; electrical wiring; systems design; sizing,
			fabricating, and installing ductwork; installing and maintaining climate
Heating, Ventilation, and Air Conditioning	17056	17	control systems; and safety.

			These courses offer students specialized training in aspects or topics
			that are common to various climate control systems (heating,
			ventilation, air conditioning, and refrigeration systems); such topics
			may include electrical components, diagrams and blueprints, welding
Particular Topics in HVACR	17057	17	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,
Plumbing	17058	17	plastic) using various methods (cement, seat method, and so on).
			Plumbing and Heating courses address the installation, assembly,
			maintenance, and repair of piping, plumbing, heating equipment, and
			water and drainage systems. Topics covered include the computation of
			heat losses and BTU requirements and blueprint reading. Students gain
	4=0=0	4-	experience with electric, gas, and oil furnaces; vacuum pumps; air
Plumbing and Heating	17059	17	compressors; and mechanical and pneumatic testing equipment.
			Course designed to teach basic skills required for installation of HVAC
HVAC & Plumbing Systems	17060	17	and plumbing systems.
			Course design to teach exposure to and training in the theories,
Pipefitting Technology	17061	17	equipment and skills needed to perform pipefitting techniques.
			A course to introduce students to the basic skills necessary for
			occupations in skilled mechanical crafts (plumbing, HVAC, pipefitting,
Skilled Mechanical Crafts	17062	17	sheet metal, refrigeration).
			Air Conditioning, Heating, and Plumbing—Independent Study courses,
			often conducted with instructors as mentors, enable students to
			explore topics of interest related to air conditioning, heating and
			plumbing. Independent Study courses may serve as an opportunity for
Air Conditioning, Heating and Plumbing—Independent			students to expand their expertise in a particular application, to explore
Study	17097	17	a topic in greater detail, or to develop more advanced skills.

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Air Conditioning, Heating and Plumbing—Workplace Experience	17098	17	Air Conditioning, Heating, and Plumbing—Workplace Experience courses provide work experience in a field related to air conditioning, heating, and/or plumbing. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.
Air Conditioning, Heating and Plumbing—Other	17099	17	Other Air Conditioning, Heating and Plumbing courses.
			Exploration of Electricity/Electronics courses offer instruction in the theory of electricity and in the terminology, skills, and safety procedures common to careers involving electricity and electronics. Topics include (but are not limited to) Ohm's law, electrical equipment, wire systems, and so on; career exploration is often (but not always) an
Exploration of Electricity/Electronics	17101	17	integral part of these courses.
			Electricity—Comprehensive courses provide a survey of the theory, terminology, equipment, and practical experience in the skills needed for careers in the electrical field. These courses typically include AC and DC circuitry, safety, and the National Electrical Code and may cover such skills as those involved in building circuits; wiring residential, commercial, and/or industrial buildings; installing lighting, power circuits, and cables; and estimating job costs. As students progress, their projects become more complex and expansive. In these courses,
Electricity—Comprehensive	17102	17	safety is stressed, and a career exploration component may be offered.
			Covering many of the same topics as Electricity—Comprehensive courses, Residential Wiring courses apply the knowledge and skills that students acquire to the electrical systems found in family dwellings. Because these courses emphasize residential electricity, topics may also include cable installation, telephone systems, and the installation of lighting fixtures, outlets, and so on. Maintenance and repair skills are
Residential Wiring	17103	17	often included as course topics.

			Covering many of the same topics as Electricity—Comprehensive
			courses, Industrial Electricity courses apply the knowledge and skills
			that students acquire to the electrical systems used in industry. Because
			of this emphasis, these courses may also cover the installation of
			transformers and control devices, emergency generator systems, and
Industrial Electricity	17104	17	other industrial applications.
			These courses provide students with specialized knowledge and help
			them develop skills in particular topics concerning the nature, behavior,
Particular Topics in Electricity	17105	17	and application of 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, and
Electronics—Comprehensive	17106	17	industrial equipment.
			Individual courses in this category offer specialized training in topics
			related to electronics such as diodes, transistors, digital techniques,
Particular Topics in Electronics	17107	17	solid-state devices, analog circuits, and microprocessors.
			Electricity/Electronics—General courses teach fundamental concepts of
			electricity and electronics, including safety procedures, and may
			introduce students to the available occupations in electrical and
			electronic industries. Topics covered typically include components of
			circuits; reading schematics and diagrams; electricity and electronics as
			sources of energy; signal transmission; and using equipment common
			to these occupations, such as ammeters, voltmeters, capacitor
Electricity/Electronics—General	17108	17	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
Particular Topics in Electricity/Electronics	17109	17	on electrical wiring or electronic signals.

Analog and Digital Circuits	17110	17	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 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 courses may also address conversion
Analog Circuits	17111	17	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
Digital Circuits	17112	17	courses may also address conversion techniques.
			Electricity/Electronics—Independent Study courses, often conducted
			with instructors as mentors, enable students to explore electricity- or
			electronics-related topics of interest. Independent Study courses may
			serve as an opportunity for students to expand their expertise in a
			particular application, to explore a topic in greater detail, or to develop
Electricity/Electronics—Independent Study	17147	17	more advanced skills.
			Electricity/Electronics—Workplace Experience courses provide students
			with work experience in a field related to electricity and/or electronics.
			Goals are typically set cooperatively by the student, teacher, and
			employer (although students are not necessarily paid). These courses
			may include classroom activities as well, involving further study of the
			field or discussion regarding experiences that students encounter in the
Electricity/Electronics—Workplace Experience	17148	17	workplace.
Electricity/Electronics—Other	17149	17	Other Electricity/Electronics courses.

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			Architecture and Construction—Independent Study courses, often
			conducted with instructors as mentors, enable students to explore
			architecture and construction-related topics of interest. Independent
			Study courses may serve as an opportunity for students to expand their
			expertise in a particular application, to explore a topic in greater detail,
Architecture and Construction—Independent study	17997	17	or to develop more advanced skills.
			Architecture and Construction—Workplace Experience courses provide
			students with work experience in a field related to architecture or
			construction. Goals are typically set cooperatively by the student,
			teacher, and employer (although students are not necessarily paid).
			These courses may include classroom activities as well, involving further
			study of the field or discussion regarding experiences that students
Architecture and Construction—Workplace Experience	17998	17	encounter in the workplace.
Architecture and Construction—Other	17999	17	Other Architecture and Construction courses.
Introduction to Agriculture and Natural Resources	18001	18	Introduction to Agriculture courses survey a wide array of topics within the agricultural industry, exposing students to the many and varied types of agriculture and livestock career opportunities and to those in related fields (such as natural resources). These courses serve to introduce students to the agricultural field, providing them an opportunity to identify an area for continued study or to determine that their interest lies elsewhere. They often focus on developing communication skills, business principles, and leadership skills.
	18002	10	Agriculture—Comprehensive courses cover a wide range of agricultural topics, including plant and animal science, production, and processing; agricultural mechanics, including tool and machine operation and repair; construction and repair of farm structures; business operations and management; and the careers available in the agricultural industry. They may also include topics such as chemical and soil science, ecology, agricultural marketing, and veterinary science.
Agriculture—Comprehensive	10002	18	agnicultural marketing, and vetermary science.

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40000	10	Agriculture and Natural Resources—Comprehensive courses cover a wide range of topics concerning agriculture and natural resources, including plant and animal science, production, and processing; environmental science and conservation; ecology; agricultural mechanics; agricultural construction; business operations and management; and the careers available in the agricultural/natural resources industry. They may also include topics such as chemical and
18003	18	soil science, forestry, agricultural marketing, and veterinary science.
		This is an introductory course that allows the students to explore the
18004	18	floral careers and the floral design business.
		Provides students to gain knowledge and skills for various Agriculture
		Careers. Students will provide a detailed log of experiences and hours
18048	18	while participating.
		This course allows additional time for students to be exposed to careers
18049	18	in an internship area as related to the AFNR cluster in a specific career.
		This is an application level course designed to provide students in the
		AFNR cluster with electronic record keeping experience. This course
		will allow the student to develop personal financial literacy and make
		decisions based on actual experiences in developing and managing a
18050	18	SAE.
		Plant Production/Science courses provide knowledge about the
		propagation of plants for food and fiber. These courses may cover such
		topics as soil science, irrigation, pest and weed control, food and fiber
		processing, and farm operations. They may also cover the knowledge
		and skills needed to produce all types of crops or may emphasize a
18051	18	particular area of the agricultural industry.
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General Horticulture	18052	18	General Horticulture courses expose students to the art and science of growing plants, shrubs, trees, flowers, fruits, and vegetables. In doing so, they cover a wide variety of topics, including greenhouse and nursery operations, soils and media mixtures, fruit and vegetable production, turf/golf course management, interior and exterior plantscaping, irrigation systems, weed and pest control, and floral design.
Ornamental Horticulture	18053	18	Similar to General Horticulture, Ornamental Horticulture courses provide information regarding the care and propagation of plants, flowers, trees, and shrubs, but place a special emphasis on those used for decorative and aesthetic purposes. Because of this particular emphasis, Ornamental Horticulture courses usually concentrate on nurseries and greenhouses and on the floristry industry.
Ornamental Horticulture	18033	10	Turf and Landscape Management courses provide instruction that incorporates plant science, soil and media mixtures, plant identification and optimal environments, and landscape design. These courses emphasize applying such knowledge and skill to the design, establishment, and maintenance of lawns, parks, open space, and
Turf and Landscape Management	18054	18	similar environments.
Soil Science	18055	18	Soil Science courses involve the study of soil properties, including soil chemistry, biology, fertility, mineralogy, and hydrology. Topics covered may also include soil conservation, irrigation, and management.
555555			These courses examine specific topics related to Plant Systems, such as
			floral design, hydroponics, or landscaping, rather than provide a general
Particular Topics in Plant Systems	18056	18	study of plant systems or horticulture.
			Plant Identification and floral design are necessary knowledge skills along with the selection of greenhouse plants and management of
Floriculture and Greenhouse Management	18057	18	greenhouses for production of plants and flowers in the industry.

Plant and Soil Science	18058	18	Courses expose students to the art and science of growing plants, shrubs, trees, flowers, fruits, agriculture crops and vegetables. In doing so, they cover a wide variety of topics, including greenhouse and nursery operations, soils & media mixtures, soil chemistry, fertility, mineralogy, hydrology, soil conservation, irrigation, fruit and vegetable production, turf/golf course management, interior and exterior plantscaping, irrigation systems, weed & pest control, & floral 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
Landscape Science I	18059	18	opportunities to design public and private spaces.
			Provides an overview of the plant industry, careers and the anatomical,
			taxonomy, physiological structures of plants. Photosynthesis,
			respiration and transpiration of plants and the interdependence of
			plants and their growth. Soilless systems, Reproduction, plant diseases
Principles of Agricultural Science - Plant	18060	18	and marketing of plant products.
			Student may develop career opportunities through internships with
			local Horticulture Businesses. Advanced knowledge and skills will be
			developed in plant genetics. Biotechnology through science based
			research projects, advanced based designs utilizing tropical, specialty
Landscape Science II	18061	18	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
Turf and Landscape	18062	18	fertilizer usage are covered in this course.
			Prepares students for the floral design business with a basic floral ID
Floriculture	18063	18	and arrangements used in the floral industry for special occasions.

			Courses provide instruction that incorporates plant science, soil and
			media mixtures, plant identification in the florist industry and landscape
			design. These courses emphasize applying such knowledge & skill to
			the design, floral arrangements for various occasions and design public
Floriculture and Landscape Design	18064	18	and private facilities internal and external areas.
			Course that prepares students to maintain indoor and outdoor
			environments. Includes instruction in plant science, climate, irrigation,
Landscape Design	18065	18	nutrition, irrigation, and turf management.
-			Course that prepare students for the flower catering services with
			instruction in purchasing, storage, delivery, floral design and arranging
Floral Design	18066	18	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,
Nursery and Landscape Design	18067	18	open space & similar environments.
			Students will have the opportunity to produce, market different types
			of greenhouse plants grown in the schools greenhouse. Skills in
			management, plant identification, pests control, starting plants,
Greenhouse Production and Management	18068	18	watering, fertilizing, and salesmanship will be developed.
			Allows student to develop plans for selection of various flowers, greens
			and arrangement for floral occasions followed up by marketing and cost
Floral Design II	18069	18	plans.
			Courses in Plant Systems—Independent Study, often conducted with
			instructors as mentors, enable students to explore topics of interest
			related to plant systems. Independent Study courses may serve as an
			opportunity for students to expand their expertise in a particular
			application, to explore a topic in greater detail, or to develop more
Plant Systems—Independent Study	18097	18	advanced skills.

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			Plant Systems—Workplace Experience courses provide work experience
			in fields related to plant systems (care, propagation, and processing).
			Goals are typically set cooperatively by the student, teacher, and
			employer (although students are not necessarily paid). These courses
			may include classroom activities as well, involving further study of the
			field or discussion regarding experiences that students encounter in the
Plant Systems—Workplace Experience	18098	18	workplace.
Plant Systems—Other	18099	18	Other Plant Systems courses.
			Animal Production/Science courses impart information about the care
			and management of domestic and farm animals. These courses may
			cover animal nutrition, health, behavior, selection, reproduction,
			anatomy and physiology, facilities, product processing, and marketing.
			Students may study a particular species (swine, cattle, horses, fowl,
			sheep, and so on), or they may learn how to care for and maintain
Animal Production/Science	18101	18	livestock as a more inclusive study.
·			Small Animal Care courses focus on the care and management of small
			animals. Animal nutrition, health, behavior, reproduction and breeding,
			anatomy and physiology, facilities, handling and training, and grooming
			are typical areas of study. Course topics may include kennel operations
Small Animal Care	18102	18	and sales.
			Large Animal Care courses focus on the care and management of large
			animals. Animal nutrition, health, behavior, reproduction and breeding,
			anatomy and physiology, facilities, handling and training, and grooming
			are typical areas of study. Course topics may include product processing
Large Animal Care	18103	18	and marketing.
			Equine Science courses focus on the care and management of horses.
			Animal nutrition, health, behavior, reproduction and breeding, anatomy
			and physiology, facilities, handling and training, and grooming are
Equine Science	18104	18	typical areas of study.
			Veterinary Science courses impart information about the causes,
			diagnosis, and treatment of diseases and injuries of animals, typically
			emphasizing domestic and farm animals. Course topics focus on
			anatomy and physiology, nutrition, behavior, and reproduction, but
Veterinary Science	18105	18	may also include other areas of study as appropriate.
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Particular Topics in Animal Systems	18106	18	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 growth and management.
			Courses impart information about the causes, diagnosis, & treatment of
			diseases & injuries of animals, typically emphasizing domestic and farm
			animals. Topics focus on anatomy & physiology, nutrition, behavior, &
Advanced Animal Science or Animal Science II	18107	18	reproduction, but may also include other areas of study as appropriate.
			Overview of the animal industry. Anatomical and Physiological
			Structures of animals, Naming of animals, nutrition, reproduction,
Principles of Agricultural Science - Animals	18108	18	genetics, animal health, selection, marketing and animal products.
			Courses in Animal Systems—Independent Study, often conducted with
			instructors as mentors, enable students to explore topics of interest
			related to animal systems. Independent Study courses may serve as an
			opportunity for students to expand their expertise in a particular
			application, to explore a topic in greater detail, or to develop more
Animal Systems—Independent Study	18147	18	advanced skills.
			Animal Systems—Workplace Experience courses provide work
			experience in fields related to animal systems (management, care,
			and/or processing). Goals are typically set cooperatively by the student,
			teacher, and employer (although students are not necessarily paid).
			These courses may include classroom activities as well, involving further
			study of the field or discussion regarding experiences that students
Animal Systems—Workplace Experience	18148	18	encounter in the workplace.
Animal Systems—Other	18149	18	Other Animal Systems courses.

			Agribusiness Management courses provide students with the
			1 -
			information and skills necessary for success in agribusiness and in
			operating entrepreneurial ventures in the agricultural industry. These
			courses may cover topics such as economic principles, budgeting, risk
			management, finance, business law, marketing and promotion
			strategies, insurance, and resource management. Other possible topics
			include developing a business plan, employee/employer relations,
			problem-solving and decisionmaking, commodities, and building
			leadership skills. These courses may also incorporate a survey of the
Agribusiness Management	18201	18	careers within the agricultural industry.
			Agricultural Entrepreneurship courses focus on the personal skills
			necessary for success in entrepreneurial ventures in the agricultural
			industry. Topics include setting goals, assessing and solving problems,
			evaluating financial progress and success, business planning,
Agricultural Entrepreneurship	18202	18	information management and evaluation, and recordkeeping.
			Agricultural Leadership courses help students develop leadership skills
			with a focus on opportunities in the food, fiber, and natural resources
			industries. Topics may include but are not limited to human
			relationships and effective communication, decision-making and
			problem-solving, leadership qualities and styles, and ensuring successful
Agricultural Leadership	18203	18	completion of group activities.
			These courses examine specific topics related to Agribusiness, such as
			international agriculture or commodities, rather than provide a general
Particular Topics in Agribusiness	18204	18	study of agribusiness principles.
			Courses help students develop leadership skills with a focus on
			opportunities in the food, fiber, & natural resources industries. Topics
			may include but are not limited to human relationships and effective
			communication, decision-making and problem-solving, leadership
			qualities and styles, and ensuring successful completion of group
Agriculture Communications	18205	18	activities.
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			Courses in Agribusiness—Independent Study, often conducted with instructors as mentors, enable students to explore topics of interest related to agribusiness. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular
			application, to explore a topic in greater detail, or to develop more
Agribusiness—Independent Study	18247	18	advanced skills.
			Agribusiness—Workplace Experience courses provide work experience in fields related to agribusiness. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding
Agribusiness—Workplace Experience	18248	18	experiences that students encounter in the workplace.
Agribusiness—Other	18249	18	Other Agribusiness Courses
			Agricultural Production courses combine content related to animal and
			plant production, providing comprehensive coverage of the production
			functions of the agricultural industry. These courses typically cover such
			topics as care and management of farm animals, crop production and
			harvesting, plant and animal insect and disease control, efficient
Agricultural Production	18301	18	resource management, and farm management.
			Agricultural Processing courses impart the knowledge and skills needed to bring animal and plant products to market. They may cover a wide variety of topics, including care and maintenance of animals or plants, quality selection and preservation, equipment care and sanitation, government regulations, and marketing and consumer trends. Agricultural Processing courses may present an overview of agricultural
Agricultural Processing	18302	18	processing or may specialize in particular types of products.

Plant Processing	18303	18	Plant Processing courses impart the knowledge and skills needed to bring plant products to market. They may cover a wide variety of topics, including plant production, quality selection and preservation, equipment care and sanitation, government regulations, and marketing and consumer trends. Plant Processing courses may present an overview of product processing or may specialize in specific plant products.
Animal Processing	18304	18	Animal Processing courses impart the knowledge and skills needed to bring animal products to market. Although these courses may present an overview of animal care and maintenance, they typically emphasize quality selection, product preservation, equipment care and sanitation, government regulations, and marketing and consumer trends. Animal Processing courses may present an overview of several types of animal products or may specialize in particular products, such as meat, leather, wool, dairy products, and so on.
Food Product Processing	18305	18	Food Product Processing courses impart the knowledge and skills needed to produce and manufacture food products for the consumer market. These courses focus on food products while covering a variety of topics, such as quality selection and preservation, equipment care and sanitation, government regulations, marketing, consumer trends, and product research and development.
Aquaculture	18306	18	Aquaculture courses impart the knowledge and skills needed for producing fish, plants, and other species living in an aquatic environment, and course topics typically include the selection, propagation, harvesting, and marketing of those species. Instruction may also address aquatic and marine biology, ecosystems, water quality and management, and business practices.

	1		Agriculture and Society courses provide an overview of the importance
			of, impact on, and relationships between agricultural endeavors and
			society at large. These courses typically emphasize economic and
			environmental factors and impacts (such as urban and agricultural
			water use) and the influences of society on agricultural endeavors
			(including production, processing, and distribution). Current
			technological advances (such as genetic engineering) may also be
Agriculture and Society	18307	18	discussed.
			Agricultural Biotechnology courses apply biological principles and
			understanding to plant and animal science in order to produce or refine
			agricultural products. Course topics typically include but are not limited
			to microbiology, genetics, growth and reproduction, structural basis of
			function in living systems, chemistry of living systems, quantitative
			problem-solving, and data acquisition and display. These courses also
Agricultural Biotechnology	18308	18	often cover the ethics of biotechnology.
			These courses examine specific topics related to producing and
			processing agricultural products (such as meat cutting) rather than
Particular Topics in Agricultural Production/Processing	18309	18	provide a general study of production or processing.
			Allows students to develop knowledge and skills used by the food
			supply careers as a nutritionist, food chemist, chef, or process engineer.
			Emphasis will be placed on food chemistry, nutrition and digestion,
			quality food factors, food safety and biotechnology. Students will be
			able to explore food preparation of another country and to understand
			and appreciate ethnic foods from a global perspective which includes
Food Science II	18310	18	hands on laboratory experiences.
			Includes a study of the animal and plant production, management,
			marketing of products, by products, consumer awareness and safety
			involved in producing consumable products. Nutrition, breeding,
			reproduction, disease prevention, and pesticide control are included in
Advanced Plant and Animal Science	18311	18	this class.

Agricultural Production and Processing—Independent Study	18347	18	Courses in Agricultural Production and Processing—Independent Study, often conducted with instructors as mentors, enable students to explore topics of interest related to agricultural production and processing. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular application, to explore a topic in greater detail, or to develop more advanced skills.
Agricultural Production and Processing—Workplace Experience	18348	18	Agricultural Production and Processing—Workplace Experience courses provide students with work experience in fields related to agricultural production and processing. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.
Agricultural Production and Processing—Other	18349	18	Other Agricultural Production and Processing courses.
Agriculture Mechanics/Equipment/Structures	18401	18	Agriculture Mechanics/Equipment/Structures courses provide students with the skills and knowledge that are specifically applicable to the tools and equipment used in the agricultural industry. While learning to apply basic industrial knowledge and skills (engine mechanics, power systems, welding, and carpentry, among others), students may explore a broad range of topics, including the operation, mechanics, and care of farm tools and machines; the construction and repair of structures integral to farm operations; a study of electricity and power principles; and safety procedures.
A STITUTE OF THE CHARLES LANGUE OF THE CHARLES	10-01	10	Agriculture Mechanics and Equipment courses provide students with the engineering and power technology principles, skills, and knowledge that are specifically applicable to the agricultural industry. Typical topics include the operation, maintenance, and repair of power, electrical,
Agriculture Mechanics and Equipment	18402	18	hydraulic, and mechanical systems.

Agriculture Structures	18403	18	Agriculture Structures courses provide students with the skills and knowledge that are specifically applicable to the construction, maintenance, and repair of structures integral to the agricultural industry, including but not limited to animal enclosures, irrigation systems, and storage facilities. In these courses, students typically study design, planning, and construction knowledge and skills (such as survey, carpentry, plumbing, concrete, and electrical systems), in addition to the safe operation of tools and machines.
Agriculture Welding	18404	18	Agriculture Welding courses provide students with the skills and knowledge that are specifically applicable to the tools and equipment used in the agricultural industry. In learning to apply basic industrial knowledge and skills (engines, power, welding, and carpentry, among others), students may explore a broad range of topics, including the operation, mechanics, and care of farm tools and machines; the construction and repair of structures integral to farm operations; an introduction or review of electricity and power; and safety procedures.
Particular Topics in Agricultural Mechanics and Construction	18405	18	These courses examine specific topics related to agricultural mechanics and construction, such as specific vehicles or structures, rather than provide a general study of mechanics and construction techniques.
Advanced Agricultural Welding II	18407	18	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 in welding certification.
Agricultural Welding III	18408	18	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 the AWS SENSE certification and is articulated to post – secondary.

Agricultural Fabrication	18409	18	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 machines.
			Courses provide students with the opportunity to learn how to service & recondition small engines, typically emphasizing two and four-cycle engines. Courses provide student with opportunities to troubleshoot and repair speed controls, lubrication, ignition, fuel, power transfer, cooling, exhaust, and starting systems; use hand, power, and overhaul tools; and read and interpret service manuals and parts' catalogs.
Small Gas Engines	18410	18	Applications may include lawn mowers, tractors, tillers, power tools.
			Courses enable students to understand the principles underlying various kinds of mechanics (aircraft, auto, diesel, & marine) and how
			energy is converted, transmitted, & controlled. Topics typically include
			maintaining & servicing machines, engines & devices while emphasizing
			energy sources, electricity, and power transmission. The courses may
			also provide information on career opportunities within the field of
Agricultural Power	18411	18	mechanics and/or transportation.
			Course provide instruction in layout and design of metal skills,
Agricultural Metals	18412	18	soldering, brazing and other cold metal work.
			Course provides students the opportunity to explore plastics in
Agricultural Plastics	18413	18	Agriculture and 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 metallurgy and metal identification will
Agricultural Welding IV	18414	18	complete the welding certification.

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			Courses in Agricultural Mechanics and Construction—Independent
			Study, often conducted with instructors as mentors, enable students to
			topics of interest related to agricultural mechanics and/or construction.
			Independent Study courses may serve as an opportunity for students to
Agricultural Mechanics and Construction—Independent			expand their expertise in a particular application, to explore a topic in
Study	18447	18	greater detail, or to develop more advanced skills.
,			Agricultural Mechanics and Construction—Workplace Experience
			courses provide work experience in fields related to agricultural
			mechanics and construction. Goals are typically set cooperatively by the
			student, teacher, and employer (although students are not necessarily
			paid). These courses may include classroom activities as well, involving
Agricultural Mechanics and Construction—Workplace			further study of the field or discussion regarding experiences that
Experience	18448	18	students encounter in the workplace.
Agricultural Mechanics and Construction—Other	18449	18	Other Agricultural Mechanics and Construction courses.
			Often with an emphasis on the conservation of natural resources and
			frequently including outdoor recreation topics, Wildlife Management
			courses provide students with the opportunity to understand and
			appreciate the importance of maintaining the land and ecological
			systems that enable nondomesticated animals to thrive. Wildlife
			Management courses emphasize how humans and animals may both
			take advantage of the same land or how to gain economic benefits
			from the land while not degrading its natural resources or depleting
Wildlife Management	18501	18	plant or animal populations.
			Forestry courses provide students with the information and experience
			necessary for the cultivation, management, and care of forests or
			timberlands. Forestry courses cover topics such as the processes of
			regeneration and reforestation, harvesting and conservation of natural
			resources, erosion and pest control, trail development and
			maintenance, mapping and surveying, operation of forestry tools,
			government regulations, environmental stewardship, and recreational
Forestry	18502	18	use of forests.

			Forestry Harvesting courses involve the study of methods to manage,
			,
			protect, and harvest timber stands and specialty forest crops;
			equipment maintenance and repair; the selection, planting,
			transplanting, and harvesting of trees; forest management; and safety
Forestry Harvesting	18503	18	procedures.
			Natural Resources Management courses combine the fields of ecology
			and conservation with planning for the efficient use and preservation of
			land, water, wildlife, and forests. Within the general area of natural
			resources management, these courses usually cover specific topics and
			uses, such as hunting or fishing preserves, forest production and
Natural Resources Management	18504	18	management, wildlife preservation, and human outdoor recreation.
			These courses examine specific topics related to natural resources, such
			as urban forestry or hunter education, rather than provide a general
Particular Topics in Natural Resources	18505	18	study of natural resource principles and topics.
			Courses combine the fields of ecology & conservation with planning for
			the efficient use and preservation of land, water, wildlife, and forests.
			Within the general area of natural resources management, these
			courses usually cover specific topics & uses, such as hunting or fishing
			preserves, forest production and management, wildlife ID, production
			and/or ecosystems management and preservation, and human outdoor
Environmental Resources and Wildlife	18506	18	recreation.
			Course will cover the modern sources of energy that are used in
Energy Resources in Agriculture	18507	18	agriculture related to wind, ethanol, and Biodiesel fuels.
			Courses in Natural Resources—Independent Study, often conducted
			with instructors as mentors, enable students to explore topics of
			interest related to natural resources. Independent Study courses may
			serve as an opportunity for students to expand their expertise in a
			particular application, to explore a topic in greater detail, or to develop
Natural Resources—Independent Study	18547	18	more advanced skills.
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			Natural Resources—Workplace Experience courses provide students
			with work experience in fields related to natural resources. Goals are
			typically set cooperatively by the student, teacher, and employer
			(although students are not necessarily paid). These courses may include
			classroom activities as well, involving further study of the field or
			discussion regarding experiences that students encounter in the
Natural Resources—Workplace Experience	18548	18	workplace.
Natural Resources—Other	18549	18	Other Natural Resources courses.
			Courses in Agriculture, Food, and Natural Resources—Independent
			Study, often conducted with instructors as mentors, enable students to
			explore topic of interest related to agriculture, food, and natural
			resources. Independent Study courses may serve as an opportunity for
Agriculture, Food, and Natural Resources—Independent			students to expand their expertise in a particular application, to explore
Study	18997	18	a topic in greater detail, or to develop more advanced skills.
			Agriculture, Food, and Natural Resources—Workplace Experience
			courses provide students with work experience in fields related to
			agriculture, food, and natural resources. Goals are typically set
			cooperatively by the student, teacher, and employer (although students
			are not necessarily paid). These courses may include classroom
Agriculture, Food, and Natural Resources—Workplace			activities as well, involving further study of the field or discussion
Experience	18998	18	regarding experiences that students encounter in the workplace.
Agriculture, Food, and Natural Resources—Other	18999	18	Other Agriculture, Food, and Natural Resources courses.
			Human Services Career Exploration courses introduce and expose
			students to the career opportunities pertaining to the provision of
			personal and consumer services for other human beings. Course topics
			vary and may include (but are not limited to) caring for others,
			education, cosmetology, apparel/textiles, entrepreneurship, labor laws,
			and customer service. Course activities depend upon the careers being
Human Services Career Exploration	19001	19	explored.
Transaction Exploration	10001	1)	chplored.

			Child Care courses provide students with knowledge about the physical,
			mental, emotional, and social growth and development of children
			from birth through childhood. Main topics include the fundamentals of
			working with infants, toddlers, and older children; providing healthy
			environments; evaluating child care settings; and the practices,
			regulations, and opportunities in the child care industry. Often, Child
			Care courses provide students with practical experience in a child care
			center. Advanced topics may include various learning theories;
			development of activities; operation of a child care center; recognition
			of childhood diseases, abuse, and neglect; and first aid/emergency
Child Care	19051	19	training.
			Child Development classes provide students with knowledge about the
			physical, mental, emotional, and social growth and development of
			children from conception to pre-school age, emphasizing the
			application of this knowledge in child care settings. These courses
			typically include related topics such as the appropriate care of infants,
Child Development	19052	19	toddlers, and young children.
			Elder Care courses emphasize the care of human beings as they grow
			older. These courses involve the study of the biological, physiological,
			social, and psychological needs and concerns of the elderly, and deal
			with the aging process, death, and dying in a realistic manner. Elder
			Care courses may cover work and personal habits appropriate to the
Elder Care	19053	19	field, and may also offer the opportunity to explore various careers.
			Caregiving Service courses emphasize the care of human beings who
			are unable or who need assistance to care for themselves. These
			courses involve the study of the biological, physiological, social, and
			psychological needs and concerns of young children, the elderly, and/or
			the disabled. Additional topics may include planning daily routines;
			lappropriate environments and activities; growth and aging processes:
Caregiving Service	19054	19	appropriate environments and activities; growth and aging processes; and techniques for managing a center or working in others' homes.

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			Cosmetology—Nail Specialization courses offer students experience in
			providing manicures, pedicures, and nail extension treatments. These
			courses may also include topics such as hygiene, entrepreneurship,
Cosmetology—Nail Specialization	19105	19	human relations, and other related subject matter.
			Cosmetology—Nail Specialization courses offer students experience in
			providing manicures, pedicures, and nail extension treatments. These
			courses may also include topics such as hygiene, entrepreneurship,
Cosmetology—Nail Specialization	19105	19	human relations, and other related subject matter.
			Cosmetology—Facial Specialization courses offer students information
			and experience related to skin care, the provision of facials, make-up
			application, and facial massage. These courses may also include topics
			such as hygiene and sanitation, human anatomy and skin conditions,
Cosmetology—Facial Specialization	19106	19	entrepreneurship, and/or human relations.
			Cosmetology—Facial Specialization courses offer students information
			and experience related to skin care, the provision of facials, make-up
			application, and facial massage. These courses may also include topics
			such as hygiene and sanitation, human anatomy and skin conditions,
Cosmetology—Facial Specialization	19106	19	entrepreneurship, and/or human relations.
			These courses examine specific topics related to cosmetology not
			otherwise described, such as electrolysis, rather than providing a
Particular Topics in Cosmetology	19107	19	general study.
			These courses examine specific topics related to cosmetology not
			otherwise described, such as electrolysis, rather than providing a
Particular Topics in Cosmetology	19107	19	general study.
			Cosmetology—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics of interest
			related to cosmetology. 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
Cosmetology—Independent Study	19147	19	advanced skills.
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Cosmetology—Independent Study	19147	19	Cosmetology—Independent Study courses, often conducted with instructors as mentors, enable students to explore topics of interest related to cosmetology. 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.
Cosmetology—Workplace Experience	19148	19	Cosmetology—Workplace Experience courses provide students with work experience in the cosmetology field. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.
Cosmetology—Workplace Experience	19146	15	regarding experiences that students encounter in the workplace.
			Cosmetology—Workplace Experience courses provide students with
			work experience in the cosmetology field. Goals are typically set
			cooperatively by the student, teacher, and employer (although students
			are not necessarily paid). These courses may include classroom
			activities as well, involving further study of the field or discussion
Cosmetology—Workplace Experience	19148	19	regarding experiences that students encounter in the workplace.
Cosmetology—Other	19149	19	Other Cosmetology Care courses.
Cosmetology—Other	19149	19	Other Cosmetology Carecourses.
			Teaching Profession courses introduce students to the principles
			underlying teaching and learning, the responsibilities and duties of
			teachers, and the techniques of imparting knowledge and information.
			These courses typically expose students to and train them in classroom
			management, student behavior, leadership and human relations skills,
			assessment of student progress, teaching strategies, and various career
Teaching Profession	19151	19	opportunities in the field of education.

Educational Methodology	19152	19	Educational Methodology courses prepare students to teach and guide others. These courses typically provide opportunities for students to develop their own teaching objectives, to design lesson plans, and to experience teaching in a controlled environment. Students examine and practice teaching strategies, learning styles, time management and planning strategies, presentation and questioning skills, classroom management, and evaluation techniques.
			Educational Methodology courses prepare students to teach and guide others. These courses typically provide opportunities for students to develop their own teaching objectives, to design lesson plans, and to experience teaching in a controlled environment. Students examine and practice teaching strategies, learning styles, time management and planning strategies, presentation and questioning skills, classroom
Educational Methodology	19152	19	management, and evaluation techniques.
Early Childhood Education	19153	19	Early Childhood Education courses address child development, care, and education issues, so that students can guide the development of young children in an educational setting. Study typically includes planning and implementing developmentally appropriate activities, basic health and safety practices, and legal requirements for teaching young children.
Zarry ermanood Zadadaterr	13133	13	Early Childhood Education courses address child development, care,
			and education issues, so that students can guide the development of young children in an educational setting. Study typically includes planning and implementing developmentally appropriate activities, basic health and safety practices, and legal requirements for teaching
Early Childhood Education	19153	19	young children.
			These courses examine specific topics in education other than those
			already described, such as management of school-age children, rather
Particular Topics in Education	19154	19	than providing a general study of the teaching profession.

			Courses introduce students to the principles underlying teaching and
			learning, the responsibilities and duties of teachers, and the techniques
			of imparting knowledge and information. These courses typically
			expose students to and train them in classroom management, student
			behavior, leadership, and human relations skills, assessment of student
			progress, teaching strategies and various career opportunities in the
			field of education. This course includes advanced work experience
Teaching as a Career	19155	19	opportunities.
			Courses prepare students to teach and guide others. These courses
			typically provide opportunities for students to develop their own
			teaching objectives, to design lesson plans, and to experience teaching
			in a controlled environment. Students examine and practice teaching
			strategies, learning styles, time management and planning strategies,
			presentation and questioning skills, classroom management, and
			evaluation techniques. This course includes advanced work experience
Teaching Internship	19156	19	opportunities.
reading internalip	13130	- 13	Education—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics of interest
			related to education. Independent Study courses may serve as an
			opportunity for students to expand their expertise in a particular
			application, to explore a topic in greater detail, or to develop more
Education Indonesidant Children	19197	19	advanced skills.
Education—Independent Study	19197	19	advanced skins.
			Education Workplace Experience courses provide students with work
			Education—Workplace Experience courses provide students with work
			experience in fields related to education. Goals are typically set
			cooperatively by the student, teacher, and employer (although students
			are not necessarily paid). These courses may include classroom
			activities as well, involving further study of the field or discussion
Education—Workplace Experience	19198	19	regarding experiences that students encounter in the workplace.
Education—Other	19199	19	Other Education Carecourses.

			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,
Clothing and Textiles	19201	19	construction, and production of fabrics and/or garments; and career opportunities in the garment or textile industry.
elottining und Textiles	13201		Clothing/Textile Maintenance courses provide students with the knowledge and skills to clean, care for, and maintain clothing and textiles. Course topics typically include dry cleaning and laundering techniques, identifying fabrics and the optimal cleaning agents and processes, instruction in altering and repairing garments, and the safe
Clothing/Textile Maintenance	19202	19	use of the equipment, tools, and agents.
Apparel Construction	19203	19	Apparel Construction courses provide students with the knowledge and skill to construct, alter, and repair clothing and textile products. Course topics typically include taking measurements, creating and preparing patterns, and various sewing techniques; topics may also include customer service, fashion design principles, and business management. These courses may also offer specialized knowledge in a particular type of garment.
Apparel and Textile Services	19204	19	Apparel and Textile Services courses introduce students to and expand upon various services that concern the care and maintenance of apparel, textiles, and furnishing. Course topics may include upholstery, dry cleaning, commercial sewing, and tailoring.
			Home Furnishing courses provide students with basic knowledge regarding furnishing and decorating home environments. While exploring design principles, personal needs and style, and decision-making, students may also explore the following topics: color, texture, furniture styles and arrangement, lighting, window treatments, floor and wall coverings, and home improvement/modification. Home Furnishing courses may also cover architectural style and design and
Home Furnishing	19205	19	take a larger look at housing problems or current housing issues.

		Home Furnishings Production courses enable students to plan, select, and construct upholstery, slip covers, draperies and other window treatments, and other home accessories. Some courses may emphasize upholstery exclusively. Course content typically includes proper use of
19206	19	equipment, interior decorating principles, and employability skills.
		These courses examine specific topics in apparel and furnishings other
		than those already described, such as tailoring or shoe repair, rather
19207	19	than providing a general study.
		Apparel and Furnishings—Independent Study courses, often conducted
		with instructors as mentors, enable students to explore topics of
		interest related to apparel, textiles, and furnishings. Independent Study
		courses may serve as an opportunity for students to expand their
		expertise in a particular application, to explore a topic in greater detail,
19247	19	or to develop more advanced skills.
		Apparel and Furnishings—Workplace Experience courses provide
		students with work experience in fields related to apparel, textiles, and
		furnishings. Goals are typically set cooperatively by the student,
		teacher, and employer (although students are not necessarily paid).
		These courses may include classroom activities as well, involving further
		study of the field or discussion regarding experiences that students
19248	19	encounter in the workplace.
19249	19	Other Apparel and Furnishings Carecourses.
		Human Services—Independent Study courses, often conducted with
		instructors as mentors, enable students to explore topics of interest
		related to providing human services. Independent Study courses may
		serve as an opportunity for students to expand their expertise in a
		particular application, to explore a topic in greater detail, or to develop
19997	19	more advanced skills.
	19207 19247 19248 19249	19207 19 19247 19 19248 19 19249 19

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			Human Services—Workplace Experience courses provide students with
			work experience in a field related to the provision of human services.
			Goals are typically set cooperatively by the student, teacher, and
			employer (although students are not necessarily paid). These courses
			may include classroom activities as well, involving further study of the
			field or discussion regarding experiences that students encounter in the
Human Services—Workplace Experience	19998	19	workplace.
Human Services—Other	19999	19	Other Human Services Care courses.
			Exploration of Transportation, Distribution, and Logistics courses
			introduce students to careers that involve the planning, management,
			and movement of people, materials, and products using any of several
			modes of transport. Such careers may also involve infrastructure,
			·
			vehicular maintenance and repair, and operating or managing facilities
	20004	20	that hold what is being transported. Therefore, specific course topics
Exploration of Transportation, Distribution and Logistics	20001	20	vary widely and depend upon the careers being explored.
			Truck and Bus Driving courses instruct students in the proper and safe
			handling and operation of trucks and buses. Strategies for driving in
			hazardous conditions, observing laws and regulations, loading cargo or
			passengers, documenting cargo loads, and expectations of driving
Truck and Bus Driving	20051	20	careers are all typical course topics.
			Heavy Equipment Operation courses enable students to safely operate
			the heavy equipment used for mining, construction, and utility
			industries. Typically, courses also include light maintenance principles
Heavy Equipment Operation	20052	20	and techniques.
			Aviation courses provide students with an understanding of the science
			of flight and typically include the history, regulations, and possible
			career paths within the aviation industry. Aviation courses usually cover
			physics, the relationships of weight and balance, principles of
			navigation and flight control, ground and airport operations and
Aviation	20053	20	services, and Federal Aviation Agency regulations.

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			Boat Operation courses typically cover operation and maintenance of
			marine vehicles, marine navigation, and emergency procedures, as well
			as other skills necessary or useful for work or life at sea (e.g., loading
			and unloading or cooking). Specific topics may include docking and
			undocking a vessel, engine maintenance, commercial fishing,
Boat Operation	20054	20	firefighting aboard ship, and CPR.
			Operation—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics of interest
			related to the operation of vehicles. Independent Study courses may
			serve as an opportunity for students to expand their expertise in a
			particular application, to explore a topic in greater detail, or to develop
Operation—Independent Study	20097	20	more advanced skills.
			Operation—Workplace Experience courses provide students with work
			experience in fields related to the operation of vehicles. Goals are
			typically set cooperatively by the student, teacher, and employer
			(although students are not necessarily paid). These courses may include
			classroom activities as well, involving further study of the field or
			discussion regarding experiences that students encounter in the
Operation—Workplace Experience	20098	20	workplace.
Operation—Other	20099	20	Other Operation courses.
			Energy/Power courses focus on one or several aspects of energy and
			power in transportation and work. Course content may include various
			sources of energy and their use in society (for example, characteristics,
			availability, conversion, storage, environmental impact, and
			socioeconomic aspects of various energy sources); principles involved
			in various means of energy transfer, such as electricity/electronics,
			hydraulics, pneumatics, heat transfer, and wind/nuclear/solar energies;
			and the transmission and control of power through mechanical or
Energy/Dower	20101	20	, ,
Energy/Power	20101	20	electrical devices such as motors and engines.

			Power and Mechanics courses enable students to understand the principles underlying various kinds of mechanics (aircraft, auto, diesel, and marine) and how energy is converted, transmitted, and controlled. Topics typically include maintaining and servicing machines, engines, and devices while emphasizing energy sources, electricity, and power transmission. The courses may also provide information on career
Power and Mechanics	20102	20	opportunities within the field of mechanics and/or transportation.
			Primarily intended as a personal automobile mechanics course, but also useful for students exploring future careers in automotive technologies, Introduction to Automobiles courses expose students to the various mechanical systems in automobiles and provide basic experience in maintenance tasks. The course may also cover career opportunities in
Introduction to Automobiles	20103	20	the automotive and/or transportation fields.
Automotive Mechanics—Comprehensive	20104	20	Automotive Mechanics—Comprehensive courses emphasize the diagnosis and repair of automobile engines and support systems such as brakes, cooling, drive trains, electrical/electronics components, emission, fuel, ignition, steering, suspension, and transmissions. Course topics often include the comprehension and use of repair manuals, safety, and employability skills (including shop management and entrepreneurship).
			These courses provide instruction in the mechanics of a particular system or condition, such as transmissions, brakes, fuel, exhaust, or electrical systems, rather than providing a general study of diagnosis
Particular Topics in Automotive Mechanics	20105	20	and repair of automobile mechanics.
			Automotive Service courses emphasize preventative auto maintenance and automobile troubleshooting. Course content typically includes tuneup, oil change, and lubrication skills; tire replacement, alignment, and balancing; and basic knowledge of brake, cooling, electrical, emission, fuel, ignition, steering, suspension, and transmission systems. These courses may also include public relations, sales techniques, and service
Automotive Service	20106	20	station management.

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Diesel Mechanics—Comprehensive	20107	20	Diesel Mechanics—Comprehensive courses prepare students to maintain and repair diesel engines and related systems. Specific course topics may include principles underlying diesel engines, analyzing electrical circuits and systems, troubleshooting and repairing cooling systems, testing and repairing air conditioning charging systems, reading and interpreting service manuals, and identifying the principles and components of fuel injection systems. Courses may also cover safety, employability skills, and entrepreneurship.
Dieser Wechanics — comprehensive	20107	20	These courses cover specific topics relevant to occupations involving
			the maintenance and repair of vehicles with diesel engines, such as
			buses and trucks. One topic (or several closely related topics)
			concerning diesel mechanics is covered in specific detail in this type of
Particular Topics in Diesel Mechanics	20108	20	course.
			Small Vehicle Mechanics courses equip students with the knowledge and skill to repair and maintain engines in small vehicles (e.g., motorcycles, all-terrain vehicles, snowmobiles, and mopeds). Topics include (but are not limited to) maintaining frames and suspension, wheels and brakes, and drive trains; servicing fuel, exhaust, and electrical systems; performing tune-ups; and maintaining and repairing engines. Students may also learn safety on the job, employability skills,
Small Vehicle Mechanics	20109	20	and entrepreneurship.
			Small Engine Mechanics courses provide students with the opportunity to learn how to service and recondition small engines, typically emphasizing two- and four-cycle engines. These courses provide students with opportunities to troubleshoot and repair speed controls, lubrication, ignition, fuel, power transfer, cooling, exhaust, and starting systems; use hand, power, and overhaul tools; and read and interpret service manuals and parts' catalogs. Applications may include lawn
Small Engine Mechanics	20110	20	mowers, tractors, tillers, power tools, and so on.

			The content of Marine Mechanics courses includes the service and
			repair of electrical, mechanical, power transfer, hydraulic, fuel, and
			cooling systems as applied to boat and/or ship engines; boat rigging;
			trailers; and marine-related merchandise. Courses may also cover
			communication, human relations, and employability skills, as well as
Marine Mechanics	20111	20	safe, efficient work practices.
			Heavy Equipment Mechanics courses include the service and repair of
			electrical, mechanical, power transfer, hydraulic, fuel, and cooling
			systems of heavy equipment such as that used in mining, construction,
Heavy Equipment Mechanics	20112	20	and utility industries.
			Aircraft Power Plant courses provide students with the information
			necessary to troubleshoot, test, repair, and install aircraft engines.
			Course content usually includes engine ignition, electrical, lubrication,
			cooling, exhaust, and fuel systems, along with aircraft instrumentation
Aircraft Power Plant	20113	20	and safety features.
			Aircraft Airframe courses offer students information and instruction
			related to the structure and mechanics of aircraft, typically including
			hydraulic, pneumatic, instrumental, fuel, electrical, cabin atmosphere,
			and landing gear systems. Aircraft Airframe courses may also cover
Aircraft Airframe	20114	20	aircraft metals and coverings and related welding skills.
			Automotive Detailing and Reconditioning courses provide students with
			knowledge and skills related to repairing, refinishing, and detailing
			automobiles. Course topics typically include painting and refinishing,
			plastics and adhesives, damage analysis, and repair, in addition to
Automotive Detailing and Reconditioning	20115	20	occupational safety, employability, and entrepreneurship skills.

			Automotive Body Repair and Refinishing courses provide students with knowledge and skills regarding the repair and refinishing of damaged or
			used cars. Course content may include (but is not limited to) stretching
			and shrinking auto body sheet metal; welding skills; frame and metal
			straightening; repair of fiberglass and synthetic materials; removing, repairing, and installing auto body parts such as panels, hoods, doors,
			and windows/glass; preparing vehicles and vehicle surfaces for
			refinishing; painting; applying body fillers; and estimating material and
Automotive Body Repair and Refinishing—Comprehensive	20116	20	labor costs.
, , ,			These courses provide specific instruction in individual topics relevant
			to the repair and refinishing of automobile bodies and surfaces. One
			topic or several closely related topics (such as nonstructural part
Particular Topics in Automotive Body Repair and			replacement, auto body welding, or plastic repair) receive particular
Refinishing	20117	20	attention in this type of course.
			Boat Repair/Refinishing courses convey a broad range of information
			and skills about how to repair and refinish boat mechanics, structures,
			and surfaces. In these courses, students become proficient in marine
			terminology, learn how to describe types of marine manufacturing and
			occupations, and prepare new and existing wood, fiberglass, and metal
			surfaces for painting or refinishing. These courses often cover safety,
Boat Repair/Refinishing	20118	20	employability skills, and entrepreneurship.
			Mechanics and Repair—Independent Study courses, often conducted
			with instructors as mentors, enable students to explore topics of
			interest related to the maintenance of vehicles and engines.
			Independent Study courses may serve as an opportunity for students to
Marketine of Brooks Indoorday 60	204.47	20	expand their expertise in a particular application, to explore a topic in
Mechanics and Repair—Independent Study	20147	20	greater detail, or to develop more advanced skills.

			Mechanics and Repair—Workplace Experience courses provide
			students with work experience in fields related to the maintenance of
			vehicles and engines. Goals are typically set cooperatively by the
			student, teacher, and employer (although students are not necessarily
			paid). These courses may include classroom activities as well, involving
			further study of the field or discussion regarding experiences that
Machanics and Danair Workplace Evacrience	20148	20	students encounter in the workplace.
Mechanics and Repair—Workplace Experience Mechanics and Repair—Other	20148	20	Other Mechanics and Repair courses.
Mechanics and Repair—Other	20149	20	Other Mechanics and Repair Courses.
			Distribution—Comprehensive courses provide students with knowledge
			and skills related to the safe and efficient delivery of commodities to
			various markets. Course content typically includes the comparative
			advantages of various forms of transportation, distribution networks,
			processes for tracking large shipments of material, transportation of
Distribution—Comprehensive	20151	20	goods in a safe and secure manner, and packaging.
			Warehouse Operations courses convey the principles and processes
			underlying the receiving, loading and unloading, tracking, and storing of
			large quantities of materials. Course topics typically include a variety of
			logistical implications for moving materials by several different modes
			of transportation, safety and security, and appropriate storage
Warehouse Operations	20152	20	techniques.
·			Distribution and Logistics—Independent Study courses, often
			conducted with instructors as mentors, enable students to explore
			topics of interest related to distribution and logistics. Independent
			Study courses may serve as an opportunity for students to expand their
			expertise in a particular application, to explore a topic in greater detail,
Distribution and Logistics—Independent Study	20197	20	or to develop more advanced skills.
			Distribution and Logistics—Workplace Experience courses provide
			students with work experience in fields related to distribution and
			logistics. Goals are typically set cooperatively by the student, teacher,
			and employer (although students are not necessarily paid). These
			courses may include classroom activities as well, involving further study
			of the field or discussion regarding experiences that students encounter
Distribution and Logistics—Workplace Experience	20198	20	in the workplace.

Distribution and Logistics—Other	20199	20	Other Distribution and Logistics courses.
			Transportation, Distribution, and Logistics—Independent Study courses,
			often conducted with instructors as mentors, enable students to
			explore topics of interest related to transportation, distribution, and
			logistics. Independent Study courses may serve as an opportunity for
Transportation, Distribution and Logistics—Independent			students to expand their expertise in a particular application, to explore
Study	20997	20	a topic in greater detail, or to develop more advanced skills.
			Transportation, Distribution, and Logistics—Workplace Experience
			courses provide students with work experience in fields related to
			transportation, distribution, and logistics. Goals are typically set
			cooperatively by the student, teacher, and employer (although students
			are not necessarily paid). These courses may include classroom
Transportation, Distribution and Logistics—Workplace			activities as well, involving further study of the field or discussion
Experience	20998	20	regarding experiences encountered in the workplace.
Transportation, Distribution and Logistics—Other	20999	20	Other Transportation, Distribution and Logistics courses.
			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
Pre-Engineering Technology	21001	21	processes, enterprises, and career opportunities.
			Engineering Applications courses provide students with an overview of
			the practical uses of a variety of engineering applications. Topics
			covered usually include hydraulics, pneumatics, computer interfacing,
			robotics, computer-aided design, computer numerical control, and
Engineering Applications	21002	21	electronics.
			Engineering Technology courses provide students with the opportunity
			to focus on one or more areas of industrial technology. Students apply
			technological processes to solve real engineering problems; develop
			the knowledge and skills to design, modify, use, and apply technology;
			and may also design and build prototypes and working models. Topics
			covered in the course include the nature of technology, use of
Engineering Technology	21003	21	technology, and design processes.

			Dringiples of Engineering sources provide students with an
			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	21	change.
			Engineering—Comprehensive courses introduce students to and
			expand their knowledge of major engineering concepts such as
			modeling, systems, design, optimization, technology-society
			interaction, and ethics. Particular topics often include applied
			engineering graphic systems, communicating technical information,
			engineering design principles, material science, research and
			development processes, and manufacturing techniques and systems.
			The courses may also cover the opportunities and challenges in various
Engineering—Comprehensive	21005	21	branches of engineering.
			Engineering Design courses offer students experience in solving
			problems by applying a design development process. Often using solid
			modeling computer design software, students develop, analyze, and
			test product solutions models as well as communicate the features of
Engineering Design	21006	21	those models.
			Engineering Design and Development courses provide students with the
			opportunity to apply engineering research principles as they design and
			construct a solution to an engineering problem. Students typically
			develop and test solutions using computer simulations or models but
Engineering Design and Development	21007	21	eventually create a working prototype as part of the design solution.
			Digital Electronics courses teach students how to use applied logic in
			the development of electronic circuits and devices. Students may use
			computer simulation software to design and test digital circuitry prior
Digital Electronics	21008	21	to the actual construction of circuits and devices.
			Robotics courses develop and expand students' skills and knowledge so
			that they can design and develop robotic devices. Topics covered in the
			course may include mechanics, electrical and motor controls,
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			Computer Integrated Manufacturing courses involve the study of
			robotics and automation. Building on computer solid modeling skills,
			students may use computer numerical control (CNC) equipment to
			produce actual models of their three-dimensional designs. Course
			topics may also include fundamental concepts of robotics, automated
Computer Integrated Manufacturing	21010	21	manufacturing, and design analysis.
			Civil Engineering courses expose students to the concepts and skills
			used by urban planners, developers, and builders. Students may be
			trained in soil sampling and analysis, topography and surveying, and
			drafting or blueprint-reading. Additional course topics may include
Civil Engineering	21011	21	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, site-planning, building
Civil Engineering and Architecture	21012	21	design, project documentation, and presentation.
			Aerospace Engineering courses introduce students to the world of
			aeronautics, flight, and engineering. Topics covered in the course may
			include the history of flight, aerodynamics and aerodynamics testing,
			flight systems, astronautics, space life systems, aerospace materials,
Aerospace Engineering	21013	21	and systems engineering.
			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,
Biotechnical Engineering	21014	21	human interfaces, bioprocesses, forensics, and bioethics.
			These courses examine specific topics in engineering other than those
Particular Topics in Engineering	21015	21	already described.
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			Research in Environmental Science and Engineering courses examine
			the mutual relationships between organisms and their environment to
			identify and analyze environmental problems, evaluate the relative
			risks associated with the problems, and examine engineering solutions
			for resolving and/or preventing them. Topics covered include
			environmental and ecological processes, energy and sustainability,
			interconnected biological and human systems, the impact of humans on
			natural systems, cultural and societal contexts of environmental
			problems, and the utilization of engineering designs that will ensure
Research in Environmental Science and Engineering	21016	21	sustainable systems.
			Engineering—Independent Study courses, often conducted with
			instructors as mentors, enable students to explore topics of interest
			related to engineering. Independent Study courses may serve as an
			opportunity for students to expand their expertise in a particular
			application, to explore a topic in greater detail, or to develop more
Engineering—Independent Study	21047	21	advanced skills.
			Engineering—Workplace Experience courses provide students with
			work experience in an engineering-related field. Goals are typically set
			cooperatively by the student, teacher, and employer (although students
			are not necessarily paid). These courses may include classroom
			activities as well, involving further study of the field or discussion
Engineering—Workplace Experience	21048	21	regarding experiences that students encounter in the workplace.
Engineering—Other	21049	21	Other Engineering courses.
			Technological Literacy courses expose students to the communication,
			transportation, energy, production, biotechnology, and integrated
			technology systems and processes that affect their lives. The study of
			these processes enables students to better understand technological
Technological Literacy	21051	21	systems and their applications and uses.

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Technological Processes	21052	21	Technological Processes courses provide students with the opportunity to focus on one or more areas of industrial technology, applying technological processes to solve real problems and developing the knowledge and skills to design, modify, use, and apply technology appropriately. Students may examine case studies, explore simulations, or design and build prototypes and working models. Emerging Technologies courses emphasize students' exposure to and understanding of new and emerging technologies. The range of technological issues varies widely but typically include lasers, fiber options, electronics, robotics, computer technologies, CAD/CAM,
Emerging Technologies	21053	21	communication modalities, and transportation technologies.
Technology Innovation and Assessment	21054	21	Technology Innovation and Assessment courses use engineering design activities to help students understand how criteria, constraints, and processes affect design solutions and provide students with the skills to systematically assess technological developments or solutions. Course topics may include brainstorming, visualizing, modeling, simulating, constructing, testing, and refining designs.
			Aerospace Technology courses introduce students to the technology systems used in the aerospace industry and their interrelationships. Examples of such systems include satellite communications systems, composite materials in airframe manufacturing, space station constructions techniques, space shuttle propulsion systems, aerostatics,
Aerospace Technology	21055	21	and aerodynamics.
Particular Topics in Technology Applications	21056	21	These courses examine specific topics in technology applications other than those already described.
			Technology—Independent Study courses, often conducted with instructors as mentors, enable students to explore topics of interest related to technology systems and processes. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular application, to explore a topic in greater detail,
Technology—Independent Study	21097	21	or to develop more advanced skills.

			Technology—Workplace Experience courses provide students with
			work experience in a field related to technological systems and
			structures. Goals are typically set cooperatively by the student, teacher,
			and employer (although students are not necessarily paid). These
			courses may include classroom activities as well, involving further study
Tachualani Madudaa Europiana	24.000	24	of the field or discussion regarding experiences that students encounter
Technology—Workplace Experience	21098		in the workplace.
Technology—Other	21099	21	Other Technology courses.
			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 to determine that
Drafting Careers Exploration	21101	21	their interests lie elsewhere.
			Drafting—General courses, usually offered as a sequence of courses,
			introduce students to the technical craft of drawing illustrations to
			represent and/or analyze design specifications and then refine the skills
			necessary for this craft. Drafting—General courses use exercises from a
			variety of applications to provide students with the knowledge and
			experience to develop the ability to perform freehand sketching,
			lettering, geometric construction, and multiview projections and to
			produce various types of drawings (working, detail, assembly,
			schematic, perspective, and so on). Computer-aided drafting (CAD)
			systems (if available) are typically introduced and used to fulfill course
Drafting—General	21102	21	objectives.
Draiting General	21102	21	02,500.700.

Drafting—Architectural courses introduce students to and help them refine the technical craft of drawing illustrations to represent and/or analyze design specifications, using examples drawn from architectural applications. These courses are intended to help students develop general drafting skills, but place a particular emphasis on interior and exterior residential (and light commercial) design, site orientation, floor plans, electrical plans, design sketches, and presentation drawings. In addition, students may prepare scale models. Drafting—Architectural 21103 21 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 work. Drafting—Electrical/Electronic courses introduce students to and help them refine the technical craft of drawing illustrations to represent and/or analyze design specifications, using examples drawn from electric and/or electronic fields. These courses are intended to help students develop general drafting skills, but place a particular emphasis on those skills needed for electrical and electronic schematics. Drafting—Electrical/Electronic fields. These courses are intended to help students develop general drafting skills, but place a particular emphasis on those skills needed for electrical and electronic schematics. Drafting—Technical/Mechanical courses introduce students to and help them refine the technical craft of drawing illustrations to represent and/or analyze design specifications, using examples drawn from industrial applications. These courses are intended to help students develop general drafting skills, but place a particular emphasis on sectioning, auxiliary views, revolutions, and surface development. In these courses, students		I		
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 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 electrical felectronic fields. These courses are intended to help students develop general drafting skills, but place a particular emphasis on those skills needed for electrical and electronic schematics. Drafting—Technical/Mechanical courses introduce students to and help them refine the technical craft of drawing illustrations to represent and/or analyze design specifications, using examples drawn from industrial applications. These courses are intended to help students develop general drafting skills, but place a particular emphasis on sectioning, auxiliary views, revolutions, and surface development. In these courses, students typically learn basic machining and fabrication processes as they draw schematic diagrams featuring cams, gears,	Drafting—Architectural	21103	21	refine the technical craft of drawing illustrations to represent and/or analyze design specifications, using examples drawn from architectural applications. These courses are intended to help students develop general drafting skills, but place a particular emphasis on interior and exterior residential (and light commercial) design, site orientation, floor plans, electrical plans, design sketches, and presentation drawings. In
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	Drafting—Technical/Mechanical	21106		,

			Territorial and a contract of the contract of
			Frequently offered as an intermediary step to more advanced drafting
			courses (or as a concurrent course), CAD Design and Software courses
			introduce students to the computer-aided drafting systems available in
CAD Design and Software	21107	21	the industry.
			Blueprint Reading courses provide students with the knowledge and
			ability to interpret the lines, symbols, and conventions of drafted
			blueprints. They generally emphasize interpreting, not producing,
			blueprints, although the courses may provide both types of
			experiences. Blueprint Reading courses typically use examples from a
Blueprint Reading	21108	21	wide variety of industrial and technological applications.
			Advanced research and application course that covers specific topics in
			design & pre-construction (drafting/architecture) to include
Research & Design for Pre-Construction	21109	21	management and "green design" skills.
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			GIS Technology courses provide familiarity with tools necessary to
			design and utilize discipline specific data. Areas covered are: Mapping,
			Cartography and Computer Assisted Drafting, Photogrammetry and
			Remote Sensing, Spatial Statistics, and Geographic Information Display
			Systems. Students will learn to identify appropriate tools for specific
			tasks and work with data input from maps, aerial photos, and satellite
GIS Technology	21111	21	imagery to build further representation utilizing the tools covered.
<u> </u>			GIS Spatial Applications courses apply technology skills to build and
			utilize representations of three-dimensional space to provide location
			information, data collection, and statistical information to build
			representations appropriate for use in areas such as conservation,
			urban planning, flight, human networks, geographic surveying and
			topography, and patterns and processes related to multidimensional
GIS Spatial Application	21112	21	data.
			Drafting—Independent Study courses, often conducted with instructors
			as mentors, enable students to explore drafting-related topics of
			interest. Independent Study courses may serve as an opportunity for
			students to expand their expertise in a particular application, to explore
Drafting—Independent Study	21147	21	a topic in greater detail, or to develop more advanced skills.
Draiting—independent study	2114/	Z I	a topic in greater detail, or to develop more advanced skills.

			Drafting—Workplace Experience courses provide work experience in a
			field related to drafting. Goals are typically set cooperatively by the
			student, teacher, and employer (although students are not necessarily
			paid). These courses may include classroom activities as well, involving
			further study of the field or discussion regarding experiences that
Drafting—Workplace Experience	21148	21	students encounter in the workplace.
Drafting—Other	21149	21	Other Drafting courses.
			An advanced level course that provides students with the knowledge
Advanced Drafting/CAD	21150	21	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
Foundations of Eletronics	21201	21	components such as capacitors, LEDs, and transistors.
			Project Management courses provide students with the information
			and skills necessary for success in managing projects and operating
			logistical ventures in technology, business, and industry. This course
			covers scheduling of resources (including personnel, budget, timelines,
			and equipment), utilization of Gantt charts, economic principles within
			the workplace, and risk management. Other possible topics include
			developing a business plan, finance, business law, marketing and
			promotion strategies, insurance employee/employer relations, problem-
			solving and decision-making, and building leadership skills. These
			courses may also incorporate a survey of the careers within technology
Project Management and Resource Scheduling	21205	21	and engineering industries.
roject management and nesource scheduling	21203	<u> </u>	and engineering maddines.

			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.
Materials Science and Engineering	21252	21	
			Engineering and Technology—Independent Study courses, often
			conducted with instructors as mentors, enable students to explore
			topics of interest related to engineering and/or technology.
			Independent Study courses may serve as an opportunity for students to
			expand their expertise in a particular application, to explore a topic in
Engineering and Technology—Independent Study	21997	21	greater detail, or to develop more advanced skills.
			Engineering and Technology—Workplace Experience courses provide
			students with work experience in a field related to engineering or
			technology. Goals are typically set cooperatively by the student,
			teacher, and employer (although students are not necessarily paid).
			These courses may include classroom activities as well, involving further
	24000	24	study of the field or discussion regarding experiences that students
Engineering and Technology—Workplace Experience	21998	21	encounter in the workplace.
Engineering and Technology—Other	21999	21	Other Engineering and Technology courses.
			Study Skills courses prepare students for success in high school and/or
			for postsecondary education. Course topics may vary according to the
			students involved, but typically include reading improvement skills,
			such as scanning, note-taking, and outlining; library and research skills;
			listening and note-taking; vocabulary skills; and test-taking skills. The
Church Chille	22002	22	courses may also include exercises designed to generate organized,
Study Skills	22003	22	logical thinking and writing.

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			Tutoring Practicum courses provide students with the opportunity to
			offer tutorial assistance to their peers or to younger students. After an
			initial training period during which students learn how to work with
			other students and how to make use of the available resources (e.g.,
			staff, written material, audiovisual aids, and so on), students engage in
Tutoring Practicum	22054	22	tutoring and assisting others who need or request help.
			Leadership courses are designed to strengthen students' personal and
			group leadership skills. Typically intended for students involved in
			extracurricular activities (especially as officers of organizations or
			student governing bodies), these courses may cover such topics as
			public speaking, effective communication, human relations,
			parliamentary law and procedures, organization and management, and
Leadership	22101	22	group dynamics.
			School Governance courses convene students as an entire student body
			to discuss common concerns, organize groups for action, make
			decisions, and solve school-related problems. Because of the nature of
			these courses, they are typically offered at private, alternative, or
School Governance	22103	22	experimental schools.
			Community Service courses provide students with the opportunity to
			volunteer their time, energy, and talents to serve a community project
			or organization. These courses are usually (but not always) conducted
			with a seminar component, so that students can use their volunteer
			experiences to learn how to solve problems, make decisions, and
Community Service	22104	22	communicate effectively.
			Values Clarification courses enable students to explore individual and
			societal actions and implications in order to help them develop
			personal values and make decisions about their lives. Examples of
			discussion topics include philosophy and religion, world resource
			allocation, genetic engineering, environmental issues, and death-
Values Clarification	22105	22	related issues (euthanasia, suicide, and abortion).

Seminar courses vary widely, but typically offer a small peer group the opportunity to investigate areas of interest. Course objectives may include improvement of research and investigatory skills, presentation skills, interpersonal skills, group process skills, and problem-solving and criticalthinking skills. Seminars aimed at juniors and seniors often include a college and career exploration and planning component. Career Exploration courses help students identify and evaluate personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their careers. These courses expose students to various sources of information on career and training options and may also assist them in developing job search and
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options and may also assist them in developing Job search and
employability skills.
Employability Skills courses help students match their interests and aptitudes to career options with a focus on using employment information effectively, acquiring and improving job-seeking and interview skills, composing job applications and resumes, and learning the skills needed to remain in and advance within the workplace. Course content may also include consumer education and personal
money management topics.
Diversified Occupations courses help students enter the workforce through career exploration, job search and application, and the development of positive work attitudes and work-related skills. These courses typically cover such topics as career planning and selection, money management, communication skills, interpersonal business relationships and behaviors, and personal responsibility. Employment may be a required component of these courses, or students may be
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			Family and Consumer Science—Comprehensive courses are inclusive
			studies of the knowledge and skills that are useful for the efficient and
			productive management of the home. Course topics typically include
			foods and nutrition; clothing; child development and care; housing
			design, decoration, and maintenance; consumer decisions and personal
Family and Consumer Science—Comprehensive	22201	22	financial management; and interpersonal relationships.
			Food and Nutrition courses provide students with an understanding of
			food's role in society, instruction in how to plan and prepare meals,
			experience in the proper use of equipment and utensils, and
			background on the nutritional needs and requirements for healthy
			living. Some classes place a heavier emphasis on the nutritional
			components of a balanced diet, while others concentrate on specific
			types of food preparation. Although these courses may present career
			opportunities in the food service industry, their emphasis is not career-
Food and Nutrition	22202	22	related.
			Food Science courses offer opportunities to study the composition,
			structure, and properties of foods and the chemical changes that occur
			during the processing, storage, preparation, and consumption of food.
			These courses often explore the effects of various materials,
			microorganisms, and processes on food products through laboratory
Food Science	22203	22	experiments.
			Child Development/Parenting courses provide students with knowledge
			about the physical, mental, emotional, and social growth and
			development of children from conception to pre-school age. In
			addition, these courses help students discover how parents should
			respond to the various stages of childhood. Course content typically
			includes topics such as prenatal and birth processes; responsibilities
			and difficulties of parenthood; fundamentals of children's emotional
			and physical development; and the appropriate care of infants,
Child Development/Parenting	22204	22	toddlers, and young children.

Clothing/Sewing	22205	22	Clothing/Sewing courses introduce students to and expand their knowledge of various aspects of wearing apparel, sewing, and fashion. These courses typically include wardrobe planning; selection, care, and repair of various materials; and construction of one or more garments. They may also include related topics, such as fashion design, fashion history, the social and psychological aspects of clothing, careers in the clothing industry, and craft sewing.
			Life Skills courses provide students with information about a wide range of subjects to assist them in becoming wise consumers and productive adults. These courses often emphasize such topics as goal-setting, decision-making, and setting priorities; money and time management; relationships; and the development of the self. Practical exercises regarding selecting and furnishing houses, meeting transportation needs, preparing food, selecting clothing, and building a wardrobe are often integral to these classes. In addition, specific topics such as
Life Skills	22206	22	insurance, taxation, and consumer protection may also be covered.
			Self-Management courses introduce students to the skills and strategies helpful in becoming more focused, productive individuals. These
			courses typically emphasize goal-setting; decision-making; managing
			time, energy, and stress; and identifying alternatives and coping
			strategies. They may also allow students to explore various career and
Self Management	22207	22	lifestyle choices.
			Family Living courses emphasize building and maintaining healthy
			interpersonal relationships among family members and other members
			of society. These courses often emphasize (but are not limited to)
			topics such as social/dating practices, human sexuality and reproduction, marriage preparation, parenthood and the function of
			the family unit, and the various stages of life. They may also cover
			topics related to individual self-development, career development,
			personal awareness, and preparation for the responsibilities of a family
Family Living	22208	22	member and wage earner.

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Personal Development	22209	22	Similar to Family Living courses, but more focused on the individual, Personal Development courses emphasize strengthening self-esteem, recognizing and resisting negative peer pressure, and developing coping skills for dealing with changes within one's self and within others. These courses may also have a substance-abuse prevention component.
Consumer Economics/Personal Finance	22210	22	Consumer Economics/Personal Finance courses provide students with an understanding of the concepts and principles involved in managing one's personal finances. Topics may include savings and investing, credit, insurance, taxes and social security, spending patterns and budget planning, contracts, and consumer protection. These courses may also provide an overview of the American economy.
Home Décor	22211	22	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 commercial) use and application of home décor principles.
Interior Design	22212	22	An application course to instruct students in skills necessary to design interior spaces that acknowledge client needs, legislated codes, historic, current, and future trends, and public policy. The first half of this course would be taught to FACS students only. The Drafting students would have taken intro to drafting, followed by this in the second semester.
Nutritional and Health Science	22213		Nutrition & Health Science courses focus on biological systems and personal health topics such as nutrition, stress management, drug/alcohol abuse prevention as functions of biological impact on body systems. Key biological concepts addressed include: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease.

			Family and Consumer Science—Independent Study courses, often
			conducted with instructors as mentors, enable students to explore
			topics of interest related to home- and self-management. Independent
			Study courses may provide students with an opportunity to expand
			their expertise in a particular application, to explore a topic in greater
Family and Consumer Science—Independent Study	22247	22	detail, or to develop more advanced skills.
Family and Consumer Science—Other	22249	22	Other Family and Consumer Science courses.
			Career and Community Connections is the Application level course for
			the learner to apply technical skills in a professional learning
			experience, unpaid or paid, outside or within the school environment.
			Included will be continued development and finalization of the
			student's portfolio. Career and Community Connections provides the
			opportunity for learners to focus on career related topics, team building
			and effectiveness in the world of work, and acquiring job-seeking skills
Career and Community Connections	22250	22	and retention needed to advance within the workplace.
Career and Community Connections	22250	22	·
			Miscellaneous—Workplace Experience courses provide students with
			work experience in a field related to their interests. Goals are typically
			set cooperatively by the student, teacher, and employer (although
			students are not necessarily paid). These courses may include
			classroom activities as well, involving further study of the field or
			discussion regarding experiences that students encounter in the
			workplace. Note: if the particular subject area is known, use the code
			associated with the Workplace Experience course within that subject
Miscellaneous—Workplace Experience	22998	22	area.