

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.

ELECTIVE Course Title	Course Code	Course Description
ELECTIVE COURSE TRUE	D	Biblical Literature courses have the same aim as general literature
		courses (to improve students' language arts and critical-thinking skills),
		focusing on the books of the Bible. Students may compare techniques,
		styles, and themes of the various books; examine the Bible's influence
		on secular literature; and may study historical events of Biblical times.
		Oral discussion is an integral part of these courses, and written
Biblical Literature	01059	compositions are often required.
		These courses have the same aim as general literature courses (to
		improve students' language arts and critical-thinking skills), focusing on
		a particular author and his or her work. Students determine the
		underlying assumptions and values within the selected works; compare
		techniques, styles, and themes of the author; and reflect upon the time
		period in which the author lived. Oral discussion is an integral part of
Literature of an Author	01060	literature courses, and written compositions are often required.
		These courses have the same aim as general literature courses (to
		improve students' language arts and critical-thinking skills), focusing on
		one or several genres, such as poetry, essay, biography, short story,
		drama, and so on. Students determine the underlying assumptions and
		values within the selected works and also examine the structure,
		techniques, and intentions of the genre being studied. Oral discussion is
		an integral part of these genre-oriented courses, and written
Literature of a Genre	01061	compositions are often required.

		These courses have the same aim as general literature courses (to
		improve students' language arts and critical-thinking skills), focusing on
		the literature written during or reflecting a particular time period (such
		as the French Revolution, the 1960s, or the 20th century). Students
		determine the underlying assumptions and values within the selected
		works, reflect upon the influence of societal events and social attitudes,
		and compare the points of view of various authors. Oral discussion is an
		·
Litaratura of a David d		integral part of literature courses, and written compositions are often
Literature of a Period	01062	required.
		These courses have the same aim as general literature courses (to
		improve students' language arts and critical-thinking skills), focusing on
		a particular geographic region. Students determine the underlying
		assumptions and values within the selected works; study how the
		literature reflects the land, society, and history of the region; and may
		study the influence of this literature on others. Oral discussion is an
		integral part of literature courses, and written compositions are often
Literature of a Place	01063	required.
		These courses have the same aim as general literature courses (to
		improve students' language arts and critical-thinking skills), but use
		literature written by authors who share a particular characteristic such
		as religion, culture, or gender. Students determine the underlying
		assumptions and values within the selected works, reflect upon the
		influence of a common characteristic, and compare the points of view
		of various authors. Oral discussion is an integral part of literature
Literature of a People	01064	courses, and written compositions are often required.
·		These courses have the same aim as general literature courses (to
		improve students' language arts and critical-thinking skills), but use
		selected literature to explore a particular theme as expressed from
		several points of view. Such themes might include The American
Literature of a Theme	01065	Dream, Society and Self, Exploration, War and Peace, and the like.

Literature—Independent Study	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 of advanced skills.
Creative Writing	Creative Writing courses offer students the opportunity to develop an improve their technique and individual style in poetry, short story, drama, essays, and other forms of prose. The emphasis of the courses on writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft. Although most creative writing classes cover several expressive forms others concentrate exclusively on one particular form (such as poetry 01104 or playwriting).
Research/Technical Writing	Research/Technical Writing classes prepare students to write research papers and/or technical reports. These classes emphasize researching (primary and secondary sources), organizing (material, thoughts, and 01105 arguments), and writing in a persuasive or technical style.
Composition—Independent Study	Composition—Independent study, often conducted with instructors a 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 particular application, to explore a topic in greater detail, or to develo more advanced skills.
	Forensic Speech—Inclusive courses offer students the opportunity to learn how to use oral skills effectively in formal and informal situation 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).
Forensic Speech—Inclusive	01152 Participation in competition is encouraged, but not always required.

		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).
Forensic Speech—Debate	01153	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	Participation in competition is encouraged, but not always required.
		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,
Communications	01155	vocabulary, and stylistic choices.
		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
Applied English and Communications	01156	language arts skills as applied to scholarly and literary materials.

Speech—Independent Study	01197	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 greater detail, or to develop more advanced skills. English Morphology and Grammar courses involve the study of the English language—its roots and derivations, structure and sentence
English Morphology and Grammar	01201	patterns, dialects, writing and spelling systems, and uses as a communication tool.
History of the English Language		History of the English Language courses trace the development of English, concentrating on historical and cultural influences and how the language has changed over time. Although language roots, structures, and dialects may be examined, the emphasis remains on the process of language development rather than on morphology.
English Language and Literature—Independent Study		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. 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.
		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;
Transition Algebra	02055	and angle measurement in triangles including trigonometric ratios.

Principles of Algebra and Geometry	02074	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 triangles and circles.
		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,
Technical Math	02153	charts, and other data displays. Technology is integrated as appropriate.
		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
	22224	important developments (e.g., pi, decimal fractions, probability theory,
History of Math	02991	calculus) often form the backbone of these classes. 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	02997	advanced skills.
		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	patterns and processes of climate and weather, and natural resources.
		Earth Science—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
Earth Science—Independent Study	03047	explore a topic of special interest.

		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
Conceptual Biology	03062	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	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
Biology—Independent Study	03097	science courses or may serve as an opportunity for students to explore
		Conceptual Chemistry courses are practical, nonquantitative chemistry
		courses designed for students who desire an understanding of chemical
Conceptual Chemistry	03105	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	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	explore a topic of special interest.
		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	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	system.
		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
Physics—Independent Study	03197	a topic of special interest.
		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	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	of life.
		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
Technological Inquiry	03204	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
		revolutions of thought. In these courses, original experiments may be
Origins of Science	03205	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	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	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	explore a topic of special interest.
		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	advanced skills.
		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	advanced skills.

		These courses examine a particular topic in U.S. History, such as
		particular time periods in the history of the United States, or they may
		focus on the history of particular U.S. regions rather than provide an
Particular Topics in U.S. History	04109	overview of the subject.
		U.S. History—Independent Study courses, often conducted with
		instructors as mentors, enable students to explore topics of interest
		within U.S. History. Independent Study courses may provide students
		with an opportunity to expand their expertise in a particular period or
		area, to explore a topic in greater detail, or to develop more advanced
U.S. History—Independent Study	04147	skills.
		These courses examine a particular topic pertaining to U.S. government
		and political institutions rather than provide a general overview of the
		subject. They may concentrate on one of many topics related to
		governmental structure, function, and purposes, such as the
		Constitution, the Supreme Court, Congress, or the Office of the
Particular Topics in U.S. Government	04152	President.
		Consumer 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 students as consumers and young adults (such as
		contractual laws, laws pertaining to housing and marriage, and
Consumer Law	04163	constitutional rights).
		Business 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 students as future business leaders and employees.
		Such topics may include contracts, commercial paper and debt
		instruments, property rights, employer/employee relationships, and
Business Law	04164	constitutional rights and responsibilities.
		These courses examine a particular topic in law such as the
		Constitution, specific statutes, or the legal process rather than provide
Particular Topics in Law	04166	an overview.

the legal system in the United States, with a particular emphasis on those topics affecting environmental issues, chemical usage, management, clean-up, disposal, and the exposure and legal responsibilities of workers engaged in associated occupations. Such topics may include contracts, property rights, employer/employee relationships, liability, and constitutional rights and responsibilities with particular attention paid to conversation 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 of special interest, or to develop more advanced skills. These courses examine a particular topic in Economics rather than provide a general overview of the field. Course topics may include international economics, economic development and growth of a	Г	I	1
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provide a general overview of the field. Course topics may include international economics, economic development and growth of a	Government, Politics and Law—Independent Study	04197	of special interest, or to develop more advanced skills.
international economics, economic development and growth of a			These courses examine a particular topic in Economics rather than
			provide a general overview of the field. Course topics may include
			international economics, economic development and growth of a
Particular Topics in Economics 04207 particular country or region, or resource allocation.	Particular Topics in Economics	04207	particular country or region, or resource allocation.
Economics—Independent Study courses, often conducted with			Economics—Independent Study courses, often conducted with
instructors as mentors, enable students to explore topics of interest			instructors as mentors, enable students to explore topics of interest
within the field of economics. Independent Study courses may provide			within the field of economics. Independent Study courses may provide
students with an opportunity to expand their expertise in a particular			students with an opportunity to expand their expertise in a particular
specialization, to explore a topic of special interest, or to develop more			specialization, to explore a topic of special interest, or to develop more
Economics—Independent Study 04247 advanced skills.	Economics—Independent Study	04247	advanced skills.
IB Organization Studies courses prepare students to take the			IB Organization Studies courses prepare students to take the
International Baccalaureate Organization Studies exams at either the			International Baccalaureate Organization Studies exams at either the
Subsidiary or Higher levels. These IB courses provide a broad			Subsidiary or Higher levels. These IB courses provide a broad
introduction to the principles and practices of enterprises engaged in			introduction to the principles and practices of enterprises engaged in
producing, distributing, and exchanging goods and services in a variety			producing, distributing, and exchanging goods and services in a variety
of economic frameworks. A sample of topics explored within these			of economic frameworks. A sample of topics explored within these
courses include management styles and structures; decision-making			
IB Organization Studies 04262 methods; and methods for accounting, planning, and communication.	IB Organization Studies	04262	methods; and methods for accounting, planning, and communication.

		Social Science—Independent Study courses, often conducted with
		instructors as mentors, enable students to explore topics of interest
		within the field of social sciences. 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	develop more advanced skills.
		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	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	studies-related disciplines.
		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	advanced skills.
		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	develop more advanced skills.

		Dance Technique courses provide students with experience in one or
		several dance forms (i.e., modern, jazz, ballet, and tap). Initial classes
		are usually introductory in nature, while the more advanced classes
		concentrate on improving students' technique and may offer or require
Dance Technique	05001	experience in choreography and dance evaluation.
·		Dance Repertory courses provide the opportunity for students with
		prior dance experience to develop dance techniques in small groups;
Dance Repertory	05002	these classes require auditions and emphasize performance.
		Expressive Movement courses help develop students' ability to move
		expressively, without an emphasis on particular dance forms or on
Expressive Movement	05003	developing specific dance techniques.
		Dance Appreciation courses expand students' knowledge of dance as an
		art form and help develop students' ability to evaluate dance
		performances. Learning the history of one or several dance forms may
Dance Appreciation	05004	also be included as a course objective.
		Choreography courses teach students how to arrange and direct
		dancers' movements. Course content includes application of the
		elements and principles of dance, study of historical and contemporary
		dance from a worldwide perspective, and instruction in critique. Course
		objectives include developing an appreciation of dance as a
		communicative art form and self-expression. Students sometimes gain
Choreography	05005	performance experience.
		Dance—Independent Study courses, often conducted with instructors
		or professional dancers/choreographers as mentors, enable students to
		explore a particular dance form. Independent Study courses may serve
		as an opportunity for students to expand their expertise in a particular
		form or style, to explore a topic in greater detail, or to develop more
Dance—Independent Study	05047	advanced skills.
		Introduction to the Theater courses provide an overview of the art,
		conventions, and history of the theater. Although the courses
		sometimes include experiential exercises, they emphasize learning
		about the theater rather than performance. Students learn about one
		or more of the following topics: basic techniques in acting, major
		developments in dramatic literature, major playwrights, the formation
Introduction to the Theater	05051	of theater as a cultural tradition, and critical appreciation of the art.

		Theatre arts courses focus on the study and performance of drama
		including musical theatre. These courses review a wide range of
		scripted materials, such as plays, screen plays, teleplays, readers'
		theatre scripts, dramatic criticism, creation of original dramatic works,
		and the role of dramatic arts in society. In addition, students will work
Theatre Arts	05052	collaboratively on performances.
		Drama—Comprehensive courses are intended to help develop
		students' experience and skill in one or more aspects of theatrical
		production. Initial courses are usually introductory in nature, providing
		an overview of the features of drama such as acting, set design, stage
		management, and so on. The more advanced courses concentrate on
		improving technique, expanding students' exposure to different types
		of theatrical techniques and traditions, and increasing their chances of
		participating in public productions. These courses may also provide a
Drama—Comprehensive	05053	discussion of career opportunities in the theater.
		Exploration in Drama courses are designed to enhance students'
		understanding of life through the study and performance of dramatic
		works. They emphasize developing students' ability to express
		themselves and establish personal criteria for the critical evaluation of
Exploration in Drama	05054	drama activities.
		Drama—Acting/Performance courses are intended to promote
		students' experience and skill development in one or more aspects of
		theatrical production, but they concentrate on acting and performance
		skills. Initial courses are usually introductory in nature, while the more
		advanced courses focus on improving technique, expanding students'
		exposure to different types of theatrical techniques and traditions, and
Drama—Acting/Performance	05055	increasing their chances of participating in public productions.

		Drama—Stagecraft courses are intended to help students develop
		experience and skill in one or more aspects of theatrical production, but
		concentrate on stagecraft (such as lighting, costuming, set construction,
		makeup, stage management, and so on). Initial courses are usually
		introductory in nature, while more advanced courses concentrate on
		improving technique, expanding students' exposure to different types
		of theatrical techniques and traditions and increasing their chances of
		participating in public productions. These courses may also provide a
Drama—Stagecraft	05056	discussion of career opportunities in the theater.
Diama—Stagecraft	03030	Directing courses are intended to improve students' skills in translating
		a script into a final production and are usually taken after other drama
		courses. Directing courses enable each student to create an artistic
		vision and develop a personal aesthetic, by expanding the student's
Directing	05057	exposure to different types of theatrical techniques and traditions and
Directing	03037	Playwriting courses are intended to improve students' skills in creating
		a script suitable for live production and are usually taken after other
		drama courses. Playwriting courses enable students to develop a
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		personal voice, style, and aesthetic by expanding their exposure to
		various playwrights and different types of theatrical techniques and
St	05050	traditions. Students are expected to write original scenes, one-act plays,
Playwriting	05058	or full productions. History and Literature of the Theater courses explore in depth the
		structure, elements, and style of dramatic compositions, and, as an
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		extension, how the dramatic literature influenced theatrical production
		and acting styles throughout history. Some courses may focus more on
		the literature component than on the theater (with increased emphasis
		on critique and analysis), but most courses connect these subjects,
		exploring their interrelationships. Major contributors (playwrights,
		directors, and so on) and the architecture of the theater may also be
History and Literature of the Theater	05059	included as topics of study.
		Drama—Independent Study courses, often conducted with instructors
		or artists as mentors, enable students to explore a particular theatrical
		form. Independent Study courses may serve as an opportunity for
		students to expand their expertise in a particular form or style, to
Drama—Independent Study	05097	explore a topic in greater detail, or to develop more advanced skills.

General Band	05101	General Band courses develop students' technique for playing brass, woodwind, and percussion instruments and cover a variety of nonspecified band literature styles (concert, marching, orchestral, and modern styles).
	00202	Courses in Concert Band are designed to promote students' technique
		for playing brass, woodwind, and percussion instruments and cover a
Concert Band	05102	variety of band literature styles, primarily for concert performances.
Concert Bund	03102	Courses in Marching Band are intended to develop students' technique
		for playing brass, woodwind, and percussion instruments and cover
		appropriate band literature styles, primarily for marching
Marching Band	05103	performances.
		Orchestra courses are designed to develop students' abilities to play
		brass, woodwind, percussion, and string instruments, covering a variety
Orchestra	05104	of string and orchestral literature styles.
		Contemporary Band courses help students develop their techniques for
		playing brass, woodwind, percussion, and string instruments, as well as
		guitars and keyboards, focusing primarily on contemporary stage band
Contemporary Band	05105	literature styles, such as traditional jazz, jazz improvisation, and rock.
		Instrumental Ensemble courses are intended to develop students'
		technique for playing brass, woodwind, percussion, and/or string
		instruments in small ensemble groups. Instrumental Ensemble courses
Instrumental Ensembles	05106	cover one or more instrumental ensemble or band literature styles.
		Piano courses introduce students to the fundamentals of music and
		basic keyboard techniques such as scales, chords, and melodic lines.
Piano	05107	These courses may also include more advanced keyboard techniques.
		Guitar courses introduce students to the fundamentals of music and
		guitar-playing techniques, such as strumming and chords. These courses
Guitar	05108	may also include more advanced guitar-playing techniques.
		Individual Technique—Instrumental Music courses provide individuals
		with instruction in instrumental techniques. These courses may be
Individual Technique—Instrumental Music	05109	conducted on either an individual or small group basis.
		Chorus courses provide the opportunity to sing a variety of choral
		literature styles for men's and/or women's voices and are designed to
Chorus	05110	develop vocal techniques and the ability to sing parts.

		Vocal Ensemble courses are intended to develop vocal techniques and
		the ability to sing parts in small ensemble or madrigal groups. Course
		goals may include the development of solo singing ability and may
Vocal Ensembles	05111	emphasize one or several ensemble literature styles.
		Individual Technique—Vocal Music courses provide instruction in and
		encourage the development of vocal techniques (including aural
		development) other than the ability to sing in groups. These courses
Individual Technique—Vocal Music	05112	may be conducted on either an individual or small group basis.
		Music Theory courses provide students with an understanding of the
		fundamentals of music and include one or more of the following topics:
		composition, arrangement, analysis, aural development, and sight
Music Theory	05113	reading.
		AP Music Theory courses are designed to be the equivalent of a first-
		year music theory college course as specified by the College Board. AP
		Music Theory develops students' understanding of musical structure
		and compositional procedures. Usually intended for students who
		already possess performance-level skills, AP Music Theory courses
		extend and build upon students' knowledge of intervals, scales, chords,
		metric/rhythmic patterns, and the ways they interact in a composition.
		Musical notation, analysis, composition, and aural skills are important
AP Music Theory	05114	components of the course.
		IB Music courses prepare students to take the International
		Baccalaureate Music exam at either the Subsidiary or Higher level. IB
		Music courses develop students' knowledge and understanding of
		music through training in musical skills (listening, performing, and
		composing); exposure to music theory; and formulation of an historic
		and global awareness of musical forms and styles. Historical,
		theoretical, and practical studies are suggested by the IB Curriculum
IB Music	05115	Board.
		Music History/Appreciation courses survey different musical styles and
		periods with the intent of increasing students' enjoyment of musical
		styles and/or developing their artistic or technical judgment. Music
		History/Appreciation courses may also focus on developing an
Music History/Appreciation	05116	understanding of a particular style or period.

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		Similar in nature to Music History/Appreciation courses, Music History
Music History		courses focus specifically on the history of music.
		Similar in nature to Music History/Appreciation courses, Music
		Appreciation courses focus specifically on students' appreciation of
		music. They are designed to help students explore the world of music
		and to develop an understanding of the importance of music in their
Music Appreciation	05118	
		Composition/Songwriting courses prepare students to express
		themselves thorough creating music. These courses may use
		conventional or nonconventional notation and may include
		harmonization in addition to melody writing. Along with musical
Composition/Songwriting	05119	instruments, students may also use computers for creating music.
		Music—Independent Study courses, often conducted with instructors,
		professional musicians, or voice coaches as mentors, enable students to
		explore music-related topics. Independent Study courses may serve as
		an opportunity for students to expand their expertise in a particular
		form or style, to explore a topic in greater detail, or to develop more
Music—Independent Study	05147	advanced skills.
		Art Appreciation courses introduce students to the many forms of art
		and help them form an aesthetic framework through which they can
		judge and critique art of various ages and cultures. These courses also
Art Appreciation	05151	explore the place and significance of art in our society.
		Art History courses introduce students to significant works of art,
		artists, and artistic movements that have shaped the art world and
		have influenced or reflected periods of history. These courses often
		emphasize the evolution of art forms, techniques, symbols, and
Art History	05152	themes.
		Designed to parallel college-level Art History courses, AP Art—History
		of Art courses provide the opportunity for students to critically examine
		architecture, sculpture, painting, and other art forms within their
		historical and cultural contexts. In covering the art of several centuries
		(not necessarily in chronological order), students learn to identify
		different styles, techniques, and influences and to formulate and
AP Art—History of Art	05153	articulate their reactions to various kinds of artwork.

	Creative Art—Comprehensive courses provide students with the
	knowledge and opportunity to explore an art form and to create
	individual works of art. These courses may also provide a discussion a
	exploration of career opportunities in the art world. Initial courses
	cover the language, materials, and processes of a particular art form
	and the design elements and principles supporting a work of art. As
	students advance and become more adept, the instruction regarding
	the creative process becomes more refined, and students are
	encouraged to develop their own artistic styles. Although Creative Art
	courses focus on creation, they may also include the study of major
Creative Art—Comprehensive	05154 artists, art movements, and styles.
	Creative Art—Drawing/Painting courses cover the same topics as
	Creative Art—Comprehensive courses, but focus on drawing and
	painting. In keeping with this attention on two-dimensional work,
	students typically work with several media (such as pen-and-ink, pend
	chalk, watercolor, tempera, oils, acrylics, and so on), but some course
Creative Art—Drawing/Painting	05155 may focus on only one medium.
	Creative Art—Drawing courses cover the same topics as Creative
	Art—Drawing/Painting, but focus on drawing. In keeping with this
	attention on two-dimensional work, students typically work with
	several media (such as pen-and-ink, pencil, chalk, and so on), but som
Creative Art—Drawing	05156 courses may focus on only one medium.
	Creative Art—Painting courses cover the same topics as Creative
	Art—Drawing/Painting, but focus on painting. In keeping with this
	attention on two-dimensional work, students typically work with
	several media (such as watercolor, tempera, oils, acrylics, and so on),
Creative Art—Painting	05157 but some courses may focus on only one medium.
	Creative Art—Sculpture courses cover the same topics as Creative
	Art—Comprehensive courses, but focus on creating three-dimensional
	works. Students typically work with several media (such as clay,
	ceramics, wood, metals, textiles, and so on), but some courses may
Creative Art—Sculpture	05158 focus on only one medium.

		Ceramics/Pottery courses cover the same topics as Creative
		Art—Comprehensive courses, but focus on creating three-dimensional
		works out of clay and ceramic material. Particular attention is paid to
		the characteristics of the raw materials, their transformation under
Ceramics/Pottery		heat, and the various methods used to create and finish objects.
		Printmaking/Graphics courses cover the same topics as Creative
		Art—Comprehensive courses, but focus on design principles,
Printmaking/Graphics		printmaking, and graphic design.
		Printmaking courses introduce students to a variety of printmaking
		techniques using processes such as relief printing (monoprint,
		collograph block); intaglio (etching and engraving); and perigraphy
		(silkscreen films, stencils, block-out). These courses emphasize design
		elements and principles and introduce art criticism as applied to fine art
		prints. Lessons may also include the historical development of
Printmaking		printmaking in Western and non-Western cultures.
		Graphic Design courses emphasize design elements and principles in
		the purposeful arrangement of images and text to communicate a
		message. They focus on creating art products such as advertisements,
		product designs, and identity symbols. Graphic Design courses may
		investigate the computer's influence on and role in creating
		contemporary designs and provide a cultural and historical study of
Graphic Design	05162	master design works of different periods and styles.
		Jewelry courses apply art and design principles to the creation of
		jewelry. Typically, students explore using various media, such as
		ceramic, papier-mache, glass, plastic, copper-enameled, brass, and
		silver. Course topics include exposure to jewelry of diverse world
		cultures and the history of jewelry design. Some Jewelry courses may
		concentrate on metalwork processes such as brazing, soldering, casting,
Jewelry	05166	welding, riveting, and finishing as they relate to the creation of jewelry.

	Photography courses expose students to the materials, processes, and
	artistic techniques of taking artistic photographs. Students learn about
	the operation of a camera, composition, lighting techniques, depth of
	field, filters, camera angles, and film development. The course may
	cover black-and-white photography, color photography, or both. As
	students advance, the instruction regarding the creative process
	becomes more refined, and students are encouraged to develop their
	own artistic style. These courses may also cover major photographers,
05167	art movements, and styles.
	Art Portfolio courses offer students the opportunity to create a
	professional body of work that reflects their personal style and talent.
05170	Students are often encouraged to display their work publicly.
	Designed for students with a serious interest in art, AP Studio
	Art—General Portfolio courses enable students to refine their skills and
	create artistic works to be submitted to the College Board for
	evaluation. Given the nature of the AP evaluation, the courses typically
	emphasize quality of work, attention to and exploration of a particular
	visual interest or problem, and breadth of experience in the formal,
	technical, and expressive aspects of the student's art. AP Studio
	Art—General Portfolio evaluations require submission of artwork
	exemplifying talent in drawing, color organization, design, and
05171	sculpture.
	Designed for students with a serious interest in art, AP Studio
	Art—Drawing Portfolio courses enable students to refine their skill and
	create artistic works to be submitted to the College Board for
	evaluation. Given the nature of the AP evaluation, the courses typically
	emphasize quality of work, attention to and exploration of a particular
	visual interest or problem, and breadth of experience in the formal,
	technical, and expressive aspects of drawing. In these courses, students
	explore representation, abstraction, and experimentation with a variety
05172	of drawing materials.
	05170

		IB Art/Design courses prepare students to take the International
		Baccalaureate Art/Design exams at either the Subsidiary or Higher level.
		IB Art/Design courses help develop students' aesthetic and creative
		faculties, offer training in awareness and criticism of art, and enable
		students to create quality works of art of their own. Students perform
		both studio and research work; the research component is designed to
IB Art/Design	05173	investigate particular topics or concepts of interest in further detail.
		Visual Art—Independent Study courses, often conducted with
		instructors or professional artists as mentors, enable students to
		explore a particular art form or topic. Independent Study courses may
		serve as an opportunity for students to expand their expertise in a
		particular form or style, to explore a topic in greater detail, or to
Visual Arts—Independent Study	05197	develop more advanced skills.
		Fine and Performing Art—Independent Study courses, often conducted
		with instructors or professional artists as mentors, enable students to
		explore a particular art form. Independent Study courses may serve as
		an opportunity for students to expand their expertise in a particular
		form or style, to explore a topic of in greater detail, or to develop more
Fine and Performing Art—Independent Study	05997	advanced skill.
		Comparative Religion courses survey and compare the various forms
		and values of several world religions, offering students a basic
		understanding of the world's diverse religious faiths and practices.
		Course topics typically include the belief systems of adherents; the
		relationships among humans, nature, ancestors, and the spiritual world;
Comparative Religion	07002	and the historical development of each religion.
		Similar to Comparative Religion, Eastern Religions courses provide
		students with an overview of various religions and belief systems but
		focus on those of the Eastern World. Particular religious or
		philosophical systems of study usually include Buddhism, Hinduism,
Eastern Religions	07003	Islam, Taoism, Shintoism, and Confucianism, among others.
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		Similar to Comparative Religion, Western Religions courses provide
		students with an overview of various religions and belief systems but
		focus on those of the Western World. Particular religious or
		philosophical systems of study usually include Judaism; Christianity
		(including various faiths such as those of Catholics, Episcopalians,
		Baptists, Quakers, Mormons, Mennonites, and others); and Native
Western Religions	07004	Indian belief systems, among others.
		Bible History treats the Bible as a historical document and provide an
		overview of significant biblical events. The content usually includes
		geography; the relationship among cultures, belief systems, and the
		events chronicled in the Bible; and early Jewish or Christian Church
Bible History	07008	history.
		Religious Figures courses offer students the opportunity to examine the
		lives and messages of one or several people who are central to a
		religious faith, such as a prophet, apostle, philosopher, or leader. In
		addition to a historical study of the person (or people), these courses
		typically emphasize how the teachings of these individuals influence the
Religious Figures	07010	faith and culture of a religious group.
		Justice, Peace, and Faith courses examine the scriptural foundations for
		justice, typically with a historical overview of a faith's social teaching.
		These courses discuss such topics as poverty, hunger, conflict,
		discrimination, justice, and environmental issues, with a view toward
		developing students' ability to critically reflect upon and analyze their
Justice, Peace, and Faith	07014	own roles and responsibilities.
		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	be required to perform some computer operations.

		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
Computing Systems	10002	to industry applications.
		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
Computer and Information Technology	10003	legal and ethical issues involved with computer technology and use.
		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
Computer Applications	10004	mail and desktop publishing.
		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
Business Computer Applications	10005	mail, desktop publishing, and telecommunications.
		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 e-
		mail, internet or ecommerce, LAN, WAN, voice transmission, cell phone
Telecommunications	10006	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	societies.
		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	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	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	advanced skills.
		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	systems.

		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
Database Management and Data Warehousing	10052	utility of mining data.
		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
Database Applications	10053	SAS and may prepare for certification.
		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
Data Systems/Processing	10054	programs and may also learn data-processing skills.
		These courses examine particular topics in management information
Particular Topics in Management Information Systems	10055	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	detail, or to develop more advanced skills.
		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	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	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	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	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
		configurations, and they also discuss the benefits of using a switched
		VLAN architecture. These courses also may cover routing protocols like
NetWare Routing	10105	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	network configuration to meet changing conditions.

		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	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	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	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	Students are typically encouraged to take the MCP exam.
		These courses examine particular topics in networking systems other
Particular Topics in Networking Systems	10111	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	advanced skills.
		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	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	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	mathematical and business functions and graphics.
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		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	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,
lava Programming	10155	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	
		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	programmer responsibilities.
		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	algorithms, data structures, and execution costs.

		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	computer technology.
		These courses examine particular topics in computer programming
Particular Topics in Computer Programming	10160	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	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	advanced skills.
		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	for database access, transfer methods, and networking fundamentals.
		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	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	for industry certification.
		These courses examine particular topics in internet design and
Particular Topics in Media Technology	10204	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	characters creating new behaviors.
		Media Technology—Independent Study courses, often conducted with
Media Technology—Independent Study	10247	instructors as mentors, enable students to explore topics related to
		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	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	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	application software packages and maintaining security requirements.

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	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
10254	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
	skills to build and use the physical layer of network infrastructure and
10255	develop a deeper understanding of networking devices.
	These courses examine particular topics in computer support,
10256	maintenance, and repair other than those already described.
	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
10297	greater detail, or to develop more advanced skills.
	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
10997	develop more advanced skills.
	10255 10256 10297

Introduction to Communication		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 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		multi-view drawing, photographs, and poster mock-ups. These courses examine specific topics in communication other than
Particular Topics in Communication		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		advanced skills.
		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
Audio/Visual Production	11051	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	for graphic-arts processing.
		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;
Photographic Laboratory and Darkroom	11053	and finishing, coloring, restoring, and copying prints.
		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	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	video.
		These courses examine specific topics in audio and video technology
Particular Topics in Audio/Video Technology and Film	11056	and film other than those already described.
		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	or to develop more advanced skills.
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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	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	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	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	publication.
		These courses examine specific topics in journalism and broadcasting
Particular Topics in Journalism and Broadcasting	11105	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	greater detail, or to develop more advanced skills.

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		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,
Digital Media Technology	11151	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
Desktop Publishing	11152	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
Digital Media Design and Production	11153	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
Commercial Graphic Design	11154	computer graphics.
		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	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,
11156	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
11157	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,
11158	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
11159	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
11197	advanced skills.
	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
	for students to expand their expertise in a particular application, to
11997	explore a topic in greater detail, or to develop more advanced skills.
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		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
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Pusiness Office Career Evaleration	12001	exposure, and/or hands-on experience within the various occupational
Business/Office Career Exploration	12001	
		Office Procedures—Comprehensive courses provide students with
		numerous opportunities to explore and understand the responsibilities
		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	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	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	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		production skills, and problem-solving skills.

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		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	file and disk management and other computer-related skills.
		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
Recordkeeping	12007	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
Particular Topics in Administration	12008	administration principles and techniques.
		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
Business Communications	12009	problem-based projects and realworld application.
		Administration—Independent Study courses, often conducted with
		instructors as mentors, enable students to explore business
		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
Administration—Independent Study	12047	more advanced skills.

		This is a core course designed to give students an overview of the
		business, marketing, 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
Business Essentials	12050	analyze business practices to determine ethics and social responsibility.
		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	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	concepts to formulate, analyze, and evaluate business decisions.

		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
Entrepreneurship	12053	surveyed in Business Management courses may also be included.
		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	structures, and consumer liabilities.
		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
Business Principles and Management	12055	organizations, large or small.
		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	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	the goals of an organization.

		ID Dusiness and Management source proper students to take the
		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	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	develop more advanced skills.
		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	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	products, current issues, and future trends in banking.
		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
		borrowing, selling equity or stock, lending or investing) typically
Finance	12103	undertaken by businesses.

		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
Accounting	12104	and the managerial uses of control systems and the accounting process.
		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.
Risk Management and Insurance	12106	Insurance products are evaluated in relation to cost and effectiveness.
		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
Investing	12107	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 standard 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	of accounting skills.
		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
Finance—Independent Study	12147	explore a topic in greater detail, or to develop more advanced skills.
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		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		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		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
Marketing—Fashion	12153	fashion industry. In keeping with the focus on the fashion industry,
		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	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	trucks, and related parts.

		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	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	insurance.
		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	12150	characteristics and functions of retail and wholesale floral operations.
ivial keting—Floristry	12138	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
NAC desires a linearity of the state of	12450	field, topics include the unique characteristics and functions of travel
Marketing—Hospitality/Tourism	12159	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	human relations.

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
12161 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
12162 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
12163 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
12164 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
12165 packaging.

		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	management.
		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
		industry not specified above. The course may also cover specific topics
Marketing—Other Specialization	12167	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	relation, and sales promotion.
		Integrated Marketing Applications is an Application-level course.
		Through this course, student will be activity 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	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 and findings and their implications to
Marketing Research	12196	various 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	advanced skills.
		Principles of Selling courses provide students with the knowledge and
		opportunity to develop in-depth sales competencies. Course content
		typically includes types of selling, steps in a sale, sales strategies, and
Principles of Selling	12202	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	greater detail, or to develop more advanced skills.
		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	detail, or to develop more advanced skills.
		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	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	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	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	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	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	tools and machines.

		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
Wood Processing/Production	13054	and machines.
		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,
Metal Processing/Production	13055	designing, selecting materials, and using tools and machines.
		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	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	and machines.
		These courses examine specific topics in processing and production,
Particular Topics in Processing and Production	13058	such as substance analysis, other than those already described.
		Processing/Production—Independent Study courses, often conducted
		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	detail, or to develop more advanced skills.

		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	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	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	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	detail, or to develop more advanced skills.
		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	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	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	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	concentrating on a particular application of machining techniques.
		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	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	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
Welding	13207	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	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	described.
		A comprehensive technical level course designed to provide students
		with the basic theories, equipment and skills needed to effectively
Machine Tool Technology 1a	13210	operate machine 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	advanced skills.
		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
Appliance Repair	13301	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	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	greater detail, or to develop more advanced skills.
		Manufacturing—Aide courses offer interested students the opportunity
		to assist instructors in preparing, organizing, or delivering course
		curricula. Students may provide tutorial or instructional assistance to
Manufacturing—Aide	13995	other students.
		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	explore a topic in greater detail, or to develop more advanced skills.
		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	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	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	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	mental illness.
		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
Home Health Care	14053	strategies, household management, and employability.
		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 Science	14054	dental specialties and career options.

		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
Emergency Medical Technology	14055	responsibilities involved in dealing with medical emergencies.
		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
Surgical Technology	14056	present during surgery.
		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	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	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	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	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	therapies, and understanding how to use special equipment.
		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	injured athletes.
		These courses examine particular topics in medical therapeutic services
Particular Topics in Therapeutic Services	14063	other than those already described.

	Charte Madicina Lyvill provide students an aversion of the associational
	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 considerations
14072	in athletes.
	Sports Medicine II will provide students a hands-on approach to Athletic
	Training. Topics to be covered are 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. The 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 the sports
14073	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
14097	develop more advanced skills.
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		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	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	and CPR procedures.
		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
EKG Technology	14103	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	of drawing blood.
		These courses examine particular topics in diagnostic services other
Particular Topics in Diagnostic Services	14105	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	advanced skills.

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		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-
Medical/Clerical Assisting	14151	keeping.
		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	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	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	language used to communicate within health care professions.
		These courses examine particular topics in health Information other
Particular Topics in Health Information	14155	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	advanced skills.

		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	1/201	sterilization, microbiology, and chemistry.
Central Service recimology	14201	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	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	and equipment.
		These courses examine particular topics in health support services
Particular Topics in Support Services	14204	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	advanced skills.

		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
Biotechnology	14252	biochemistry, genetics, and protein purification techniques.
		These courses examine particular topics in health sciences other than
Particular Topics in Health Sciences	14254	those already described.
		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
Health Sciences—Independent Study	14297	explore a topic in greater detail, or to develop more advanced skills.
		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
Health Care Sciences—Independent Study	14997	advanced skills.
		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	Course activities depend upon the career clusters that students explore.
		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	and crime prevention techniques.

		Corrections courses provide instruction regarding the principles and
		techniques used by institutions that incarcerate, rehabilitate, and
Corrections	15052	monitor people accused or convicted of crimes.
		These courses examine specific tenies related to law enforcement (such
Dankian lan Tanian in Lan Enfancement	45052	These courses examine specific topics related to law enforcement (such
Particular Topics in Law Enforcement	15053	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	advanced skills.
		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	services.
		Security Services courses provide instruction regarding the safety and
		security of buildings and facilities and may extend these lessons to
Security Services	15102	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	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	or to develop more advanced skills.

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		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	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	and present fire investigation techniques.
		These courses examine specific topics related to fire management (such
		as hazardous materials handling), rather than provide a general study of
Particular Topics in Fire Management	15153	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
Fire Management—Independent Study	15197	advanced skills.
		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
Public Administration		management, and so on) in greater detail.

		Community Protection courses provide students with information
	r	regarding the personnel and agencies concerned with protection of the
	ŀ	home, city, state, and nation. Topics covered typically include civil
	C	defense and disaster preparedness; crime prevention; pollution contro
	f	fire prevention and control; legal and social systems and principles; and
	F	public health. These topics may be explored from the viewpoint of a
		community resident and citizen using these services or of that of one
ity Protection	15202 i	interested in pursuing a public service career.
	F	Public Policy courses provide students with the opportunity to design,
	ļ,	propose, and analyze programs and policies implemented by
	٤	government agencies. Activities typically include identifying social
	i	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
licy	15203 p	processes.
	(Government Service—Independent Study courses, often conducted
	V	with instructors as mentors, enable students to explore topics of
	i	interest related the provision of government services. Independent
	5	Study courses may serve as an opportunity for students to expand their
	6	expertise in a particular application, to explore a topic in greater detail,
nent Service—Independent Study	15247 c	or to develop more advanced skills.
	F	Public, Protective, and Government Service—Independent Study
	c	courses, often conducted with instructors as mentors, enable students
	t	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
rotective, and Government Service—Independent	a	application, to explore a topic in greater detail, or to develop more
·		advanced skills.
nent Service—Independent Study	15203 p	communicating ideas and findings, and understanding decision-making 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 the expertise in a particular application, to explore a topic in greater detaor to develop more advanced skills. Public, Protective, and Government Service—Independent Study courses, often conducted with instructors as mentors, enable studen 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