

The proposed numeric codes correspond to only the course title "element" of the full SCED code.

Table 3. Suggested Course Codes and Descriptions for Life and Physical Sciences Subject Category

Status	Old	Proposed	Course title/description
	SNCC code	SCED Course Title Code	
Earth Science			
	1701	03 001	Earth Science Earth Science courses offer insight into the environment on earth and the earth's environment in space. While teaching the concepts and principles essential to an understanding of the dynamics and history of the earth, the following topics may be explored: oceanography, geology, astronomy, meteorology, and geography.
	1702	03 002	Geology Geology courses provide an in-depth study of the forces that formed and continue to affect the earth's surface. Earthquakes, volcanoes, and erosion are examples of topics that are presented.
	1751	03 003	Environmental Science Environmental Science courses examine the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, the following subjects may be covered: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources.
	1761	03 004	Astronomy Astronomy courses offer the opportunity to study the solar system, stars, galaxies, and interstellar bodies; astronomic instruments are usually introduced and used in the course of this study. Theories regarding the origin and evolution of the universe, space, and time might also be explored.
	1771	03 005	Marine Science Courses in Marine Science focus on the oceans' content, features, and possibilities. Marine organisms, conditions, and ecology are explored; marine mining, farming, and exploration may be studied.
added		03 006	AP Environmental Science AP Environmental Science courses follow the curricula recommended by the College Board and designed to provide students with scientific principles, concepts, and methodologies to understand the interrelationships of the natural world, to identify and analyze environmental problems (both natural and human made), to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving
added		03 007	Meteorology Meteorology courses examine the properties of the earth's atmosphere. Topics covered may include atmospheric layering, changing pressures, winds, water vapor, air masses, fronts, temperature changes and weather forecasting.

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Status	Old	Proposed	Course title/description
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added		03 008	Physical Geography Physical Geography courses equip students with an understanding of the constraints and possibilities that the physical environment places on human development. These courses including discussion of the physical landscape through geomorphology and topography; the patterns and processes of climate and weather; and water resources. They may also include natural resources and place-name geography.
added		03 009	Earth and Space Science Earth and Space Science courses introduce students to the study of the earth from a local and global perspective. Topics covered in this course may include time zones, latitude and longitude, atmosphere, weather, climate, matter, and energy transfer. Advanced topics may include the study of the use of remote sensing, computer visualization and computer modeling to enable earth scientists to understand earth as a complex and changing planet.
added		03 043	Earth Science—Special Education need description
added		03 044	Earth Science—Aide Earth Science—Aide courses offer interested students the opportunity to assist in the preparation, organization or delivery of course curricula related to earth science. Students may serve as in-classroom tutors to their peers.
added		03 045	Earth Science—Related subjects Courses in this category offer instruction in topics related to the Earth Science; examples of such topics include agriculture and mathematics.
added		03 046	Earth Science—Independent Study 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 explore a topic of special interest.
added		03 047	Earth Science—OJT Through Earth Science—OJT courses, work experience is gained within the Earth Science field. Although goals may be set cooperatively by the student, teacher, and employer, classroom attendance/experience is not an integral part of the Earth Science—OJT experience.
added		03 048	Earth Science—Co-op Earth Science—Co-op courses provide work experience in the Earth Science field and are supported by classroom attendance and discussion. Goals are set for the employment period; classroom experience may involve further study in the field, improvement of employability skills, or discussion regarding the experiences and problems encountered on the job.

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Table 3. Suggested Course Codes and Descriptions for Life and Physical Sciences Subject Category

Status	Old SNCC code	Proposed	
		SCED Course Title Code	Course title/description
added		03 049	Earth Science—Other
			Biology
	1711	03 051	Biology—First Year Biology—First-Year courses are designed to provide information regarding the fundamental concepts of life and life processes. Topics covered include (but are not restricted to) cell structure and function, general plant and animal physiology, genetics, and
edited	1712	03 052	Biology—Advanced Studies Usually taken after Biology—First-Year courses, Biology—Advanced Studies courses cover biological systems in more detail. Topics that may be explored include cell organization, function, and reproduction; energy transformation; human anatomy and physiology; and organisms' evolution and adaptation.
	1713	03 053	Anatomy and Physiology Usually taken after Biology—First-Year courses, Anatomy and Physiology courses present the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals.
added		03 054	Anatomy This course presents the human body and biological system in detail. Topics covered in this course may include the study of anatomical terminology, cells and tissues, and may explore functional systems such as skeletal, muscular, circulatory, respiratory, digestive, reproductive and nervous systems.
added		03 055	Physiology This course examines all major systems, tissues and muscles groups of humans to understand their interactions and role in maintaining homeostasis. The course may also cover topics such as cells structure and function, metabolism and the human life cycle through laboratory activities and research.
	1715	03 056	AP Biology Adhering to the curricula recommended by the College Board and designed to parallel college-level introductory biology courses, AP Biology courses stress basic facts and their synthesis into major biological concepts and themes. Three general areas are covered: molecules and cells (including biological chemistry and energy transformation); genetics and evolution; and organisms and populations (i.e., taxonomy, plants, animals, and ecology). AP Biology courses include college-level laboratory experiments.

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Table 3. Suggested Course Codes and Descriptions for Life and Physical Sciences Subject Category

Status	Old SNCC code	Proposed SCED Course Title Code	Course title/description
	1716	03 057	IB Biology IB Biology courses prepare students to take the International Baccalaureate Biology exams at either the Subsidiary or Higher level. In keeping with the general aim of IB Experimental Sciences courses, IB Biology promotes understanding of the facts, principles, and concepts underlying the biological field; critical analysis, evaluation, and generation of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of biology and scientific advances in biology upon society and upon issues of ethical, philosophical and political importance. IB course content varies, but includes study of living organisms from the cellular level through functioning entities within the biosphere. Laboratory experimentation is an essential component.
added		03 058	Botany Botany courses provide students with an understanding of plants, their life cycles and evolutionary relationships.
added		03 059	Genetics Genetics courses provide students with an understanding of general concepts concerning genes, heredity, and variation of organisms. Course topics typically include chromosomes, the structure of DNA and RNA molecules, and dominant and recessive inheritance, and may also include lethal alleles, epistasis and hypostasis, and polygenic inheritance.
added		03 060	Microbiology This course provides students with a general understanding of microbes, prokaryotic and eukaryotic cells and the three domain systems. Additional topics may include bacterial control, cell structure, fungi, protozoa, viruses and immunity, microbial genetics and metabolism.
added		03 061	Zoology Zoology courses provide students with an introductory understanding of animals, the niche they occupy in their environment or habitat, their life cycles and evolutionary relationships to other organisms. These courses may also develop an awareness and understanding of biotic communities and develop laboratory and field skills.
added		03 062	Conceptual Biology This course provides students with a basic understanding of living things. Topics covered in this course may include ecology and environmental problems such as overpopulation and pollution as well as cells, types of organisms, evolutionary behavior and inheritance. The course may emphasize laboratory experience and outdoor observations.
edited	1714	03 063	Particular Topics in Biology Particular Topics in Biology courses are typically offered (but not restricted) to students who have mastered the concepts covered in Biology—First-Year courses. These courses examine biological systems in more detail, concentrating on a particular subtopic (such as botany, zoology, genetics, and so on) not otherwise specifically described as a course within this classification system.

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Table 3. Suggested Course Codes and Descriptions for Life and Physical Sciences Subject Category

Status	Old	Proposed	Course title/description
	SNCC code	SCED Course Title Code	
added		03 093	Biology—Special Education need description
added		03 094	Biology—Aide Biology Laboratory Assistant courses offer interested students the opportunity to assist in the preparation, organization, or delivery of course curricula. Students may serve as in-classroom tutors to their peers or as laboratory assistants.
added		03 095	Biology—Related subjects Courses in this category offer instruction in topics related to the Biology; such topics may include agriculture, horticulture and/or mathematics.
added		03 096	Biology—Independent Study Biology—Independent Study courses, often conducted with instructors as mentors, enable students to explore scientific topics of interest, using advanced methods of scientific inquiry and experimentation. These courses may be offered in conjunction with other rigorous science courses, or may serve as an opportunity to explore a topic of special
added		03 097	Biology—OJT Through Biology—OJT courses, work experience is gained within the biology field. Although goals may be set cooperatively by the student, teacher, and employer, classroom attendance/experience is not an integral part of the Biology—OJT experience.
added		03 098	Biology—Co-op Biology—Co-op courses provide work experience in the biology field and are supported by classroom attendance and discussion. Goals are set for the employment period; classroom experience may involve further study in the field, improvement of employability skills, or discussion regarding the experiences and problems encountered on the job.
added		03 099	Biology—Other
Chemistry			
	1721	03 101	Chemistry—First Year Chemistry—First-Year courses involve the study of the composition, properties, and reactions of substances. The behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure are typical concepts explored in Chemistry—First-Year courses. Chemical formulas and equations and nuclear reactions are also studied.
	1723	03 102	Chemistry—Advanced Studies Usually taken after Chemistry—First-Year courses, Chemistry—Advanced Studies courses cover chemical properties and interactions in more detail. Advanced chemistry topics include organic chemistry, thermodynamics, electrochemistry, macromolecules, kinetic theory, and nuclear chemistry.

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Table 3. Suggested Course Codes and Descriptions for Life and Physical Sciences Subject Category

Status	Old SNCC code	Proposed	
		SCED Course Title Code	Course title/description
added		03 103	Organic Chemistry Organic Chemistry involves the study of organic molecules and functional groups. Topics covered in the course may include nomenclature, bonding molecular structure and reactivity, reaction mechanisms and current spectroscopic techniques. Laboratory experience is also emphasized.
added		03 104	Physical Chemistry Usually taken after completing a calculus course, Physical Chemistry courses cover chemical kinetics, quantum mechanics, molecular structure, molecular spectroscopy and statistical mechanics.
1722		03 105	Chemistry in the Community Developed by the American Chemical Society, Chemistry in the Community is an interdisciplinary chemistry course designed for students who desire an understanding of chemical concepts and applications but who do not plan to pursue science-based careers.
1725		03 106	AP Chemistry Following the curricula recommended by the College Board, AP Chemistry courses usually follow high school chemistry and second-year algebra. Topics may include atomic theory and structure; chemical bonding; nuclear chemistry; states of matter; and reactions (stoichiometry, equilibrium, kinetics, and thermodynamics). AP Chemistry laboratories are equivalent to those of typical college courses.
1726		03 107	IB Chemistry IB Chemistry courses prepare students to take the International Baccalaureate Chemistry exams at either the Subsidiary or Higher level. In keeping with the general aim of IB Experimental Sciences courses, IB Chemistry promotes understanding of the facts, patterns, and principles underlying the field of chemistry; critical analysis, evaluation, prediction, and generation of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of chemistry and scientific advances in chemistry upon society and upon issues of ethical, philosophical and political importance. Course content varies, but includes the study of the materials of the environment, their properties, and their interaction. Laboratory experimentation is essential.
added		03 108	Conceptual Chemistry Conceptual Chemistry is a practical, non-quantitative chemistry course designed for students who desire an understanding of chemical concepts and applications.
1724		03 109	Particular Topics in Chemistry Particular Topics in Chemistry courses are typically offered (but not restricted) to students who have mastered the concepts presented in Chemistry—First-Year courses. These courses cover chemical principles and reactions in more detail, concentrating on a particular subtopic such as organic chemistry, chromatography and spectrometry, physical chemistry, and so on (not otherwise specifically described in this classification system).

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Table 3. Suggested Course Codes and Descriptions for Life and Physical Sciences Subject Category

Status	Old	Proposed	Course title/description
	SNCC code	SCED Course Title Code	
added		03 143	Chemistry—Special Education need description
added		03 144	Chemistry—Aide Chemistry—Aide courses offer interested students the opportunity to assist in the preparation, organization, or delivery of course curricula. Students may serve as in-classroom tutors to their peers or as laboratory assistants.
added		03 145	Chemistry—Related Subjects Courses in this category offer instruction in topics related to the Chemistry; such topics may include engineering and/or mathematics.
added		03 146	Chemistry—Independent Study 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 explore a topic of special interest.
added		03 147	Chemistry—OJT Through Chemistry—OJT courses, work experience is gained within the chemistry field. Although goals may be set cooperatively by the student, teacher, and employer, classroom attendance/experience is not an integral part of the Chemistry—OJT experience.
added		03 148	Chemistry—Co-op Chemistry—Co-op courses provide work experience in the chemistry field and are supported by classroom attendance and discussion. Goals are set for the employment period; classroom experience may involve further study in the field, improvement of employability skills, or discussion regarding the experiences and problems encountered on the job.
added		03 149	Chemistry—Other
Physics			
	1731	03 151	Physics—First Year Physics—First-Year courses involve the study of the forces and laws of nature affecting matter: equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, magnetic, and electric phenomenon.
edited	1733	03 152	Physics—Advanced Studies Usually taken after Physics—First-Year courses, Physics—Advanced Studies courses provide instruction in laws of conservation, thermodynamics, and kinetics; wave and particle phenomena; electromagnetic fields; and fluid dynamics.

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Table 3. Suggested Course Codes and Descriptions for Life and Physical Sciences Subject Category

Status	Old	Proposed	Course title/description
	SNCC code	SCED Course Title Code	
1732		03 153	<p>Principles of Technology</p> <p>Principles of Technology courses, designed by CORD and AIT, focus on the study of the forces and laws of nature and their application to modern technology. Equilibrium, motion, momentum, energy conversion, electromagnetism, and optical phenomenon are presented in the context of current, real-world applications. Demonstrations, math labs, and applied laboratory experiments are an integral part of the Principles of Technology curriculum. These courses enable students to gain a solid foundation for careers in electronics, robotics, telecommunications, and other technological fields.</p>
1735		03 155	<p>AP Physics B</p> <p>AP Physics B courses are designed to by the College Board to parallel college-level physics courses that provide a systematic introduction to the main principles of physics and emphasize problem-solving without calculus. Course content includes the following areas: mechanics; electricity and magnetism; modern physics; waves and optics; and kinetic theory and thermodynamics.</p>
1736		03 156	<p>AP Physics C</p> <p>Designed by the College Board to parallel college-level physics courses that serve as a partial foundation for science or engineering majors, AP Physics C courses primarily focus on mechanics, and electricity and magnetism, with approximately equal emphasis on these two areas. AP Physics C courses are more intensive and analytic than AP Physics B courses and require the use of calculus to solve the problems posed.</p>
1737		03 157	<p>IB Physics</p> <p>IB Physics courses prepare students to take the International Baccalaureate Physics exams at either the Subsidiary or Higher level. In keeping with the general aim of IB Experimental Sciences courses, IB Physics promotes understanding of the facts, patterns, and principles underlying the field of physics; critical analysis, prediction, and application of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of physics and scientific advances in physics upon society and upon issues of ethical, philosophical and political importance. Course content varies, but includes the study of the fundamental laws of nature and the interaction between concepts of matter, fields, waves, and energy. Laboratory experimentation is essential; calculus may be used in some courses.</p>
1703		03 159	<p>Physical Science</p> <p>Physical Science courses involve the study of the structures and states of matter. Typically (but not always) an introductory survey course, topics covered may include forms of energy, wave phenomenon, electromagnetism, and physical and chemical interactions.</p>

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	1704	03 160	IB Physical Science IB Physical Science courses prepare students to take the International Baccalaureate Physical Science exams at either the Subsidiary or Higher level. These courses integrate the study of physics and chemistry, showing how the physical and chemical properties of materials can be explained and predicted in terms of atomic, molecular, and crystal structures and forces. In keeping with the general aim of IB Experimental Sciences courses, IB Physical Science promotes critical analysis, prediction, and application of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of science and scientific advances upon society and upon issues of ethical, philosophical and political importance. Students are required to develop and pursue an individual, experimental project, which is evaluated as part of the IB exam.
added		03 161	Conceptual Physics This course involves introduces students to the use of chemicals, characteristic properties of materials, and simple mechanics to better describe the world and non-living matter. The course emphasizes 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 forces.
edited	1734	03 154	Particular Topics in Physics Particular Topics in Physics courses are typically offered (but not restricted) to students who have mastered the concepts covered in Physics—First-Year courses. These courses present the principles of matter and energy in more detail, concentrating on a particular subtopic such as optics, thermodynamics, quantum physics, and so on.
added		03 193	Physics—Special Education need description
added		03 194	Physics—Aide Physics—Aide courses offer interested students the opportunity to assist in the preparation, organization, or delivery of course curricula. Students may serve as in-classroom tutors to their peers or as laboratory assistants.
added		03 195	Physics—Related Subjects Courses in this category offer instruction in topics related to the field of physics; such topics may include engineering and/or mathematics.
added		03 196	Physics—Independent Study 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 serve as an opportunity to explore a topic of special

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added		03 197	Physics—OJT Through Physics—OJT courses, work experience is gained within the physics field. Although goals may be set cooperatively by the student, teacher, and employer, classroom attendance/experience is not an integral part of the Physics—OJT experience.
added		03 198	Physics—Co-op Physics—Co-op courses provide work experience in the physics field and are supported by classroom attendance and discussion. Goals are set for the employment period; classroom experience may involve further study in the field, improvement of employability skills, or discussion regarding the experiences and problems encountered on the job.
added		03 199	Physics—Other
Integrated/Other			
	1741	03 201	Integrated Science The specific content of Integrated Science courses varies, but emanates from suggestions made by the American Association for the Advancement of Science (AAAS) and the National Association for the Advancement of Science. Typically a multi-year program of study, Integrated Science courses draw from the principles of several scientific specialties—earth science, physical science, biology, chemistry, and physics—and organize the material around thematic units. Common themes include systems, models, energy, patterns, change, and constancy. Appropriate aspects from each specialty are used to investigate applications of the theme.
	1742	03 202	Unified Science 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 underlying the scientific method and the techniques of experimentation.
	1743	03 203	Applied Biology/Chemistry—CORD Applied Biology/Chemistry—CORD courses integrate biology and chemistry into a unified domain for study, and presents 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 of life.
	1781	03 204	Science Technology/Engineering Science Technology/Engineering courses offer the opportunity to approach practical, technological problems and to use scientific, experimental skills and processes to reach solutions. Students may use a theoretical framework, or may develop prototypes and working models.

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	1782	03 205	Origins of Science 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. Original experiments may be replicated, and primary materials may be studied.
added		03 206	IB Design Technology IB Design Technology courses prepare students to take the International Baccalaureate Design Technology exams at either the Subsidiary or Higher level. In keeping with the general aim of IB Experimental Sciences courses, IB Design Technology promotes understanding and use of the scientific method to solve problems using scientific information and production techniques. Practical/investigative work centers on the properties of materials, mechanisms, control circuits and production techniques as they apply to constructing an artifact, or developing skills and ideas useful in carrying out such a project.
added		03 207	AP Environmental Science The goal of this course is to provide students with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world to identify and analyze environmental problems (both natural and human made), to evaluate the relative risks associated with the problems, and to examine alternative solutions for resolving and/or preventing them. Topics covered in this course include science as a process, ecological processes and energy conversions, earth as an interconnected system, human impact on natural systems, cultural and societal contexts of environmental problems and developing practices that will ensure sustainable systems.
added		03 208	Aerospace Aerospace courses explore the history of aviation, principles of aeronautical decision-making, airplane systems, aerodynamics and flight theory. These courses may also explore career opportunities and paths within aviation, and the regulations governing those careers.
added		03 209	Science, Technology and Society Science, Technology and Society courses encourage students to explore and understand the ways that science and technology shape culture, values, and institutions; and how such factors shape science and technology. Topics covered in this course may include how science and technology enter society and how they change as a result of social processes.
added		03 210	Technical Science Technical Science courses introduce students to scientific tools and methods, and provides an introduction to chemistry and physics. Topics covered in this course typically include measurement conversion, model creation, use of scientific methods, interpretation of atom, identification of the properties of common compounds, analysis of chemical equations, the impact of force on linear motion, and the study of various physical phenomena and forms of energy.
added		03 211	Scientific Research and Design

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			In Scientific Research and Design courses, students conceive of, design and complete a project using scientific inquiry and experimentation methodologies. Emphasis is typically placed on safety issues, research protocols, controlling or manipulating variables, data analysis, and a coherent display of the project and its outcome(s). Students may be competing in fairs or symposia or may be independently exploring solutions to a problem of personal or community concern, without regard to competition with others.
added		03 993	Life and Physical Sciences—Special Education need description
	1793	03 994	Life and Physical Sciences—Aide Life and Physical Sciences—Aide courses offer interested students the opportunity to assist in the preparation, organization or delivery of course curricula. Students may serve as in-classroom tutors to their peers or as laboratory assistants.
added		03 995	Life and Physical Sciences—Related subjects Courses in this category offer instruction in topics related to the Life and Physical Sciences; such topics may include agriculture, horticulture, engineering and/or mathematics.
	1796	03 996	Life and Physical Sciences—Independent Study 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 explore a topic of special interest.
added		03 997	Life and Physical Sciences—OJT Through Life and Physical Sciences—OJT courses, work experience is gained within the Life and Physical Sciences field. Although goals may be set cooperatively by the student, teacher, and employer, classroom attendance/experience is not an integral part of the Life and Physical Sciences—OJT experience.
added		03 998	Life and Physical Sciences—Co-op Life and Physical Sciences—Co-op courses provide work experience in the Life and Physical Sciences field and are supported by classroom attendance and discussion. Goals are set for the employment period; classroom experience may involve further study in the field, improvement of employability skills, or discussion regarding the experiences and problems encountered on the job.
	1799	03 999	Life and Physical Sciences—Other
			Total number of added courses:
			51

Notes Cultural Geography-see social studies
Energy Education --see xxx.