Science

SCED Code	Course Name	SCED Course Identifier Description	SCED Description
03001G0.5011F	Earth Science	Earth Science	Earth Science is an integration of the following Earth and Space Sciences content areas: Earth's Place in the Universe, Earth's Systems, and Earth and Human Activity. Earth Science courses offer insight into the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, these courses usually explore oceanography, geology, astronomy, meteorology, and geography. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03002H0.5011F	Prin Geo Stud	Geology	Principles of Geological Studies is an integration of the following Earth and Space Sciences content areas: Earth's Systems and Earth and Human Activity. 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. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03002H0.5011F	Prin Geo Stud H	Geology	Principles of Geological Studies Honors is an integration of the following Earth and Space Sciences content areas: Earth's Systems and Earth and Human Activity. 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. These

			courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03003G0.5011F	Geoscience	Environmental Science	Geoscience is an integration of the Life Sciences content area of Ecosystems: Interactions, Energy, and Dynamics and the following Earth and Space Sciences content areas: Earth's Systems and Earth and Human Activity. Environmental Science Environmental Science courses examine the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03003G0.5011F	Prin Env Science	Environmental Science	Principles of Environmental Science is an integration of the Life Sciences content area of Ecosystems: Interactions, Energy, and Dynamics and the following Earth and Space Sciences content areas: Earth's Systems and Earth and Human Activity. Environmental Science courses examine the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.

03003H0.5011F	Geoscience H	Environmental Science	Geoscience Honors is an integration of the Life Sciences content area of Ecosystems: Interactions, Energy, and Dynamics and the following Earth and Space Sciences content areas: Earth's Systems and Earth and Human Activity. Environmental Science courses examine the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03004G0.5011F	Astronomy	Astronomy	Astronomy is an integration of the following Earth and Space Sciences content areas: Earth's Place in the Universe, Earth's Systems, and Earth and Human Activity. Astronomy courses offer students the opportunity to study the solar system, stars, galaxies, and interstellar bodies. These courses usually introduce and use astronomic instruments and typically explore theories regarding the origin and evolution of the universe, space, and time. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03005G0.5011F	Prin Marine Sci	Marine Science	Principles of Marine Science is an integration of the Life Sciences content area of Ecosystems: Interactions, Energy, and Dynamics and the following Earth and Space Sciences content areas: Earth's Systems and Earth and Human Activity. Marine Science Courses in Marine Science focus on the content, features, and possibilities of the earth's oceans. They explore marine organisms, conditions, and ecology and sometimes cover marine mining, farming, and exploration. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.

03006G0.5011F	Meteorology	Meteorology	Meteorology is an integration of the following Earth and Space Sciences content areas: Earth's Place in the Universe, Earth's Systems, and Earth and Human Activity. Meteorology courses examine the properties of the earth's atmosphere. Topics usually include atmospheric layering, changing pressures, winds, water vapor, air masses, fronts, temperature changes and weather forecasting. This course integrates these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03007G0.5011F	Physical Geography	Physical Geography	Physical Geography is an integration of the following Earth and Space Sciences content areas: Earth's Place in the Universe, Earth's Systems, and Earth and Human Activity. 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 patterns and processes of climate and weather, and natural resources. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03008G0.5011F	Earth and Space Science	Earth and Space Science	Earth and Space Science is an integration of the following Earth and Space Sciences content areas: Earth's Place in the Universe, Earth's Systems, and Earth and Human Activity. Earth and Space Science courses introduce students to the study of the earth from a local and global perspective. In these courses, students typically learn about time zones, latitude and longitude, atmosphere, weather, climate, matter, and energy transfer. Advanced topics often 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. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.

03009G0.5011F	Particular Topics in Earth Science	Particular Topics in Earth Science	Particular Topics in Earth Science is an integration of the following Earth and Space Sciences content areas: Earth's Place in the Universe, Earth's Systems, and Earth and Human Activity. Particular Topics in Earth Science courses concentrate on a particular subtopic within the field of earth science (such as mineralogy) that is not otherwise described within this classification system. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03013E0.5011F	CI Marine Science	Marine Science	Cambridge International (CI) Marine Science is an integration of the Life Sciences content area of Ecosystems: Interactions, Energy, and Dynamics and the following Earth and Space Sciences content areas: Earth's Systems and Earth and Human Activity. Cambridge International (CI) Marine Science courses prepare students to take the Cambridge Marine Science assessments and serve as an ideal subject combination for students who want to study Marine Biology or Environmental Science or follow a career in shipping, fisheries, tourism, or aquaculture. These courses teach students about observation and experimentation, the science of water, forming and shaping the ocean floor, organisms in the marine biome, and human influences. Students will develop practical skills, such as accurate and safe scientific practices, in addition to skills in data analysis and scientific communication. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03047G0.5011I	Earth Science—Independent Study	Earth Science—Independent Study	Earth Science—Independent Study is an integration of the following Earth and Space Sciences content areas: Earth's Place in the Universe, Earth's Systems, and Earth and Human Activity. 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 science courses or may serve

			as an opportunity to explore a topic of special interest. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03049G0.5011F	Earth Science—Other	Other Earth Science	Other Earth Sciences is an integration of the following Earth and Space Sciences content areas: Earth's Place in the Universe, Earth's Systems, and Earth and Human Activity. This course integrates these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03051G0.5013F	Biology	Biology	Biology is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03051H0.5013F	Biology H	Biology	Biology Honors is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.

03052E0.5011F	Biology—Advanced Studies	Biology—Advanced Studies	Biology Advanced Studies is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. Usually taken after a comprehensive initial study of biology, 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 the evolution and adaptation of organisms. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03053H0.5011F	Prin Anat/Phys H	Anatomy and Physiology	Anatomy and Physiology is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, and Ecosystems: Interactions, Energy, and Dynamics. 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. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03053H0.5011F	Adv Anat/Phys H	Anatomy and Physiology	Anatomy and Physiology Honors is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, and Ecosystems: Interactions, Energy, and Dynamics. 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. These courses integrate these core ideas

			with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03054G0.5011F	Anatomy	Anatomy	Anatomy is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, and Ecosystems: Interactions, Energy, and Dynamics. Anatomy courses present an in-depth study of the human body and biological system. Students study such topics as anatomical terminology, cells, and tissues and typically explore functional systems such as skeletal, muscular, circulatory, respiratory, digestive, reproductive, and nervous systems. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03055G0.5011F	Physiology	Physiology	Physiology is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, and Ecosystems: Interactions, Energy, and Dynamics. Physiology courses examine all major systems, tissues, and muscle groups in the human body to help students understand how these systems interact and their role in maintaining homeostasis. These courses may also cover such topics as cell structure and function, metabolism, and the human life cycle. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03056E0.5011F	AP Biology	AP Biology	AP Biology Honors is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. AP Biology adheres to the curricula recommended by the College Board and designed to parallel college-level introductory biology courses. AP Biology

			courses emphasize four general concepts: evolution; cellular processes (energy and communication); genetics and information transfer; and interactions of biological systems. For each concept, these courses emphasize the development of scientific inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. AP Biology courses include college-level laboratory investigations. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03057E0.5023F	Biology II IB	IB Biology	Biology II IB is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. IB Biology IB Biology courses prepare students to take the International Baccalaureate Biology exams. 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 both society and issues of ethical, philosophical, and political importance. Course content varies, but includes study of statistical analysis, cells, the chemistry of life, genetics, ecology and evolution, and human health and physiology. Laboratory experimentation is an essential component of these courses. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.

03057E0.5033F	Biology III IB	IB Biology	Biology III IB is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. IB Biology IB Biology courses prepare students to take the International Baccalaureate Biology exams. 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 both society and issues of ethical, philosophical, and political importance. Course content varies, but includes study of statistical analysis, cells, the chemistry of life, genetics, ecology and evolution, and human health and physiology. Laboratory experimentation is an essential component of these courses. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03058G0.5011F	Prin Botany	Botany	Principles of Botany is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. Botany courses provide students with an understanding of plants, their life cycles, and their evolutionary relationships. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03059H0.5011F	Prin Genetics H	Genetics	Principles of Genetics Honors is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. 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. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03060G0.5011F	Microbiology	Microbiology	Microbiology is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. Microbiology courses provide students with a general understanding of microbes, prokaryotic and eukaryotic cells, and the three domain systems. Additional topics covered may include bacterial control, cell structure, fungi, protozoa, viruses and immunity, microbial genetics, and metabolism. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03061H0.5011F	Prin Zoology H	Zoology	Zoology is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. Zoology courses provide students with an understanding of animals, the niche they occupy in their environment or habitat, their life cycles, and their evolutionary relationships to other organisms. These courses should also help students develop an awareness and understanding of biotic communities. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.

03062G0.5011F	Conceptual Biology	Conceptual Biology	Conceptual Biology is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. 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 organisms, evolutionary behavior, and inheritance. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03063G0.5011F	Particular Topics in Biology	Particular Topics in Biology	Particular Topics in Biology is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. Particular Topics in Biology courses concentrate on a particular subtopic within the field of biology (such as botany, zoology, genetics, and so on) that is not otherwise described within this classification system. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03064G0.5011F	Regional Biology	Regional Biology	Regional Biology is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. Regional Biology courses are designed to provide information regarding the fundamental concepts of life and life processes as related to the local environment. Course topics may include nature appreciation, local flora and fauna, biology, and zoology. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.

03097G0.5011F	Biology—Independent Study	Biology—Independent Study	Biology – Independent Study is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. 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 science courses or may serve as an opportunity for students to explore a topic of special interest. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03099G0.5011F	Biology—Other	Other Biology	Biology -- Other is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03101G0.5011F	Chemistry Man & Society NSHE	Chemistry	Chemistry Man & Society (NSHE) is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Chemistry Man & Society courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic

			structure. Chemical formulas and equations and nuclear reactions are also studied. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03101G0.5011F	Chemistry	Chemistry	Chemistry is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03101G0.5011F	Preparatory Chemistry NSHE	Chemistry	Preparatory Chemistry (NSHE) is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.

03101H0.5011F	Chemistry H	Chemistry	Chemistry Honors is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03101H0.5011F	Chemistry Man & Soc w/Lab NSHE	Chemistry	Chemistry Man & Society w/Lab (NSHE) is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03102E0.5011F	Chemistry—Advanced Studies	Chemistry—Advanced Studies	Chemistry—Advanced Studies is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Usually taken after a comprehensive initial study of chemistry,

			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. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03103G0.5011F	Organic Chemistry	Organic Chemistry	Organic Chemistry is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Organic Chemistry courses involve the study of organic molecules and functional groups. Topics covered may include nomenclature, bonding molecular structure and reactivity, reaction mechanisms, and current spectroscopic techniques. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03104G0.5011F	Physical Chemistry	Physical Chemistry	Physical Chemistry is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Usually taken after completing a calculus course, Physical Chemistry courses cover chemical kinetics, quantum mechanics, molecular structure, molecular spectroscopy, and statistical mechanics. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.

03105G0.5011F	Conceptual Chemistry	Conceptual Chemistry	Conceptual Chemistry is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Conceptual Chemistry courses are practical, nonquantitative chemistry courses designed for students who desire an understanding of chemical concepts and applications. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03106E0.5011F	AP Chemistry	AP Chemistry	AP Chemistry is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. AP Chemistry Following the curricula recommended by the College Board, AP Chemistry courses usually follow high school chemistry and second-year algebra. Concepts covered may include the structure of matter; bonding of intermolecular forces; chemical reactions; kinetics; thermodynamics; and chemical equilibrium. For each concept, these courses emphasize the development of scientific inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. AP Chemistry courses include college-level laboratory investigations. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.

03107E0.5013F	Chemistry IB	IB Chemistry	Chemistry IB is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. IB Chemistry IB Chemistry courses prepare students to take the International Baccalaureate Chemistry exams. 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 both society and issues of ethical, philosophical, and political importance. Course content varies, but includes the study of quantitative and organic chemistry, atomic structure, periodicity, bonding, energetics, kinetics, equilibrium, acids and bases, oxidations and reduction, and measurement and data processing. Laboratory experimentation is an essential part of these courses. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03107E0.5023F	Chemistry II IB	IB Chemistry	Chemistry II IB is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. IB Chemistry courses prepare students to take the International Baccalaureate Chemistry exams. 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 both society and issues of ethical, philosophical, and political importance. Course content varies, but includes the study of quantitative and organic chemistry, atomic structure, periodicity, bonding, energetics, kinetics, equilibrium, acids and bases, oxidations and reduction, and measurement and data processing. Laboratory experimentation is an essential part of these courses. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03107E0.5033F	Chemistry III IB	IB Chemistry	Chemistry III IB is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. IB Chemistry courses prepare students to take the International Baccalaureate Chemistry exams. 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 both society and issues of ethical, philosophical, and political importance. Course content varies, but includes the study of quantitative and organic chemistry, atomic structure, periodicity, bonding, energetics, kinetics, equilibrium, acids and bases, oxidations and reduction, and measurement and data processing. Laboratory experimentation is an essential part of these

			courses. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03108G0.5011F	Particular Topics in Chemistry	Particular Topics in Chemistry	Particular Topics in Chemistry is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. 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 system. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03147G0.5011F	Chemistry—Independent Study	Chemistry—Independent Study	Chemistry—Independent Study is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. 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 system. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.

03149G0.5011F	Chemistry—Other	Other Chemistry	Chemistry—Other is an integration of the Life Sciences content area of From Molecules to Organisms: Structures and Processes and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03151G0.5011F	Physics	Physics	Physics is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Physics courses involve the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03151H0.5011F	Physics H	Physics	Physics Honors is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Physics courses involve the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.

03152H0.5011F	Prin Phys App H	Physics - Advanced Studies	Physics Advanced Studies is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Physics—Advanced Studies Usually taken after a comprehensive initial study of physics, Physics—Advanced Studies courses provide instruction in laws of conservation, thermodynamics, and kinetics; wave and particle phenomena; electromagnetic fields; and fluid dynamics. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03156E0.5011F	AP Physics C: Mechanics	AP Physics C	AP Physics C - Mechanics is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. AP Physics C Mechanics courses prepare students for the College Board's examinations in Physics C: Electricity and Magnetism and Physics C: Mechanics. These courses parallel college-level physics courses that serve as a partial foundation for science or engineering majors and primarily focus on mechanics and electricity and magnetism, with approximately equal emphasis placed on these two areas. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03156E0.5011F	AP Physics C: Elec Mag	AP Physics C	AP Physics C - Electromagnetics is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. AP Physics C courses prepare students for the College Board's examinations in Physics C: Electricity and Magnetism and Physics C: Mechanics. These courses parallel college-level physics courses that serve as a partial foundation for science or engineering majors and primarily focus on mechanics and electricity and magnetism, with approximately equal emphasis

			placed on these two areas. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03157E0.5012F	Physics I IB	IB Physics	Physics I IB is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. IB Physics courses prepare students to take the International Baccalaureate Physics exams. 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 scientific advances in physics upon both society and issues of ethical, philosophical, and political importance. Course content varies but includes the study of physical measurement; mechanics; thermal, atomic, and nuclear physics; oscillations and waves; electric currents; fields and forces; and energy, power, and climate change. Laboratory experimentation is essential; calculus may be used in some courses. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03157E0.5022F	Physics II IB	IB Physics	Physics II IB is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. IB Physics courses prepare students to take the International Baccalaureate Physics exams. 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 scientific advances in physics upon both society and issues of ethical, philosophical, and political importance. Course content varies but includes the study of physical measurement; mechanics; thermal, atomic, and nuclear physics; oscillations and waves; electric currents; fields and forces; and energy, power, and climate change. Laboratory experimentation is essential; calculus may be used in some courses. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03161G0.5011F	Conceptual Physics	Conceptual Physics	Conceptual Physics is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. 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 forces. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03162G0.5011F	Particular Topics in Physics	Particular Topics in Physics	Particular Topics in Physics is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. 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 system. These courses

			integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03163E0.5011F	AP Physics C: Electricity and Magnetism	AP Physics C: Electricity and Magnetism	AP Physics C: Electricity and Magnetism is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. 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: Electricity and Magnetism courses focus on electricity and magnetism, including topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. AP Physics C courses require the use of calculus to solve the problems posed. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03164E0.5011F	AP Physics C: Mechanics	AP Physics C: Mechanics	AP Physics C: Mechanics is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. 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: Mechanics courses focus on classical mechanics, including topics in kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation. AP Physics C courses require the use of calculus to solve the problems posed. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.

03165E0.5012F	AP Physics 1	AP Physics 1	AP Physics 1 is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Designed by the College Board to parallel first-semester college-level courses in algebra-based physics, AP Physics 1 courses focus on Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory circuits. These courses may also include college-level laboratory investigations. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03166E0.5022F	AP Physics 2	AP Physics 2	AP Physics 2 is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Designed by the College Board to parallel second-semester college-level courses in algebra-based physics, AP Physics 2 courses cover fluid statics and dynamics; thermodynamics with kinetic theory, PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. These courses may also include college-level laboratory investigations. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03197G0.5011F	Physics—Independent Study	Physics—Independent Study	Physics—Independent Study is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Physics—Independent Study courses, often conducted with instructors as mentors, enable students to explore scientific topics of interest, using advanced methods of scientific inquiry and experimentation. These courses may be offered in

			conjunction with other rigorous science courses or may provide students with an opportunity to explore a topic of special interest. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03199G0.5011F	Physics—Other	Other Physics	Physics—Other is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03201G0.5011F	Physical Science	Phyical Science	Physical Science is an integration of the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. Physical Science courses involve study of the structures and states of matter. Typically (but not always) offered as introductory survey courses, they may include such topics as forms of energy, wave phenomenon, electromagnetism, and physical and chemical interactions. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03203G0.5011F	Applied Biology/Chemistry	Applied Biology/Chemistry	Applied Biology/Chemistry is an integration of the following Life Sciences content areas: From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity and the following Physical Sciences content areas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications in Technologies for Information Transfer. 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 of life. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03207E0.5011F	AP Envir Science	AP Environmental Science	AP Environmental Science is an integration of the Life Sciences content area of Ecosystems: Interactions, Energy, and Dynamics and the following Earth and Space Sciences content areas: Earth's Systems and Earth and Human Activity. AP Environmental Science courses are designed by the College Board to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, identify, and analyze environmental problems (both natural and human made), evaluate the relative risks associated with the problems, and examine alternative solutions for resolving and/or preventing them. Topics covered include science as a process, ecological processes and energy conversions, earth as an interconnected system, the impact of humans on natural systems, cultural and societal contexts of environmental problems, and the development of practices that will ensure sustainable systems. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03208E0.5012F	Env Systems Soc I IB	IB Environmental Science	Environmental Systems and Societies I IB is an integration of the Life Sciences content area of Ecosystems: Interactions, Energy, and Dynamics and the following Earth and Space Sciences content areas: Earth's Systems and Earth and Human Activity IB Environmental Systems and Societies courses prepare students to take the International Baccalaureate Environmental Systems exam by providing them with the knowledge, methods, and techniques to understand the nature and functioning of natural

			systems, the relationships that affect environmental equilibrium, and human impact on the biosphere. Topics also include ecosystem integrity and sustainability, students' own relationships to the environment, and the nature of internationalism in resolving major environmental issues. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03208E0.5022F	Env Systems Soc II IB	IB Environmental Science	Environmental Systems and Societies II IB is an integration of the Life Sciences content area of Ecosystems: Interactions, Energy, and Dynamics and the following Earth and Space Sciences content areas: Earth's Systems and Earth and Human Activity. IB Environmental Systems and Societies courses prepare students to take the International Baccalaureate Environmental Systems exam by providing them with the knowledge, methods, and techniques to understand the nature and functioning of natural systems, the relationships that affect environmental equilibrium, and human impact on the biosphere. Topics also include ecosystem integrity and sustainability, students' own relationships to the environment, and the nature of internationalism in resolving major environmental issues. These courses integrate these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.
03209G0.5011F	Aerospace	Aerospace	Aerospace is an integration of the following Earth and Space Sciences content areas: Earth's Place in the Universe, Earth's Systems, and Earth and Human Activity. Particular Topics in Earth Science is an integration of the following Earth and Space Sciences content areas: Earth's Place in the Universe, Earth's Systems, and Earth and Human Activity. Particular Topics in Earth Science courses concentrate on a particular subtopic within the field of earth science (such as mineralogy) that is not otherwise described within this classification system. This course integrates these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.

03228GECEC11F	Science (early childhood education)	Science (early childhood education)	Science (early childhood education) courses cover foundational skills and concepts related to Nature of Science, Earth and Space Science, Physical Science and Life Science. Students use active play and exploration to question and make observations of the world around them. Content is age appropriate and aligns to the Nevada Academic Content Standards for early childhood education.
03229GPKPK11F	Science (pre-kindergarten)	Science (pre-kindergarten)	Science (pre-kindergarten) courses cover foundational skills and concepts related to Nature of Science, Earth and Space Science, Physical Science and Life Science. Students use active play and exploration to question and make observations of the world around them. Content is age appropriate and aligns to the Nevada Academic Content Standards for pre-kindergarten science.
03230GKGKG11F	Science (kindergarten)	Science (kindergarten)	Science (kindergarten) courses encourage students to observe and describe properties of organisms, systems, and the environment. Using cross-cutting concepts, students may raise questions, identify patterns, and record observations. Specific content in the four disciplinary core ideas: physical sciences; life sciences; earth and space sciences; and engineering, technology, and applications of science are stated in the Nevada Academic Content Standards for kindergarten science.
03231G010111F	Science (grade 1)	Science (grade 1)	Science (grade 1) courses allow students to use cross-cutting concepts to identify interactions and patterns in objects and events and to record observations in written or visual form. Typically, students investigate systems of living organisms and the environment. Specific content in the four disciplinary core ideas: physical sciences; life sciences; earth and space sciences; and engineering, technology, and applications of science are stated in the Nevada Academic Content Standards for grade 1 science.

03232G020211F	Science (grade 2)	Science (grade 2)	Science (grade 2) courses continue to introduce students to basic scientific processes and principles. Course content uses cross-cutting concepts to identify patterns, classification and sequencing, or manipulation of systems to observe interactions between parts and record the effects of change. Specific content in the four disciplinary core ideas: physical sciences; life sciences; earth and space sciences; and engineering, technology, and applications of science are stated in the Nevada Academic Content Standards for grade 2 science.
03233G030311F	Science (grade 3)	Science (grade 3)	Science (grade 3) courses involve observation, measurement, and description of simple systems. Students are expected to use cross-cutting concepts to identify patterns; identify, test, and apply cause and effect relationships; and apply scale, proportion, and quantity. Specific content in the four disciplinary core ideas: physical sciences; life sciences; earth and space sciences; and engineering, technology, and applications of science are stated in the Nevada Academic Content Standards for grade 3 science.
03234G040411F	Science (grade 4)	Science (grade 4)	Science (grade 4) courses typically explore complex systems, such as plant and animal adaptation, forces and motion, and physical and chemical changes in matter, or content consistent with state academic standards. Using cross-cutting concepts, students will identify causes and effects of change, make predictions, and gather data from multiple sources. Specific content in the four disciplinary core ideas: physical sciences; life sciences; earth and space sciences; and engineering, technology, and applications of science are stated in the Nevada Academic Content Standards for grade 4 science.
03235G050511F	Science (grade 5)	Science (grade 5)	Science (grade 5) courses are built on the study of various systems. They include identification and description of cycles, comparisons of forms of matter and energy, forces, or content consistent with state academic standards. Using cross-cutting concepts, students will make comparisons and interpret and analyze information. Specific content in the four disciplinary

			core ideas: physical sciences; life sciences; earth and space sciences; and engineering, technology, and applications of science are stated in the Nevada Academic Content Standards for grade 5 science.
03236G060611F	Science (grade 6)	Science (grade 6)	Science (grade 6) is an integration of the following science content areas: Earth and Space, Life, and Physical. Physical Sciences focuses on students developing and using models, planning, and conducting investigations, analyzing, and interpreting data, using mathematical and computational thinking, and constructing explanations; and to use these practices to demonstrate understanding of the following core ideas: Matter and its Interactions, Motion and Stability: Forces and Interactions, Energy, and Waves and Their Applications. This course also focuses on the integration of engineering practices including design and evaluation using the NVACSS-aligned crosscutting concepts.
03237G070711F	Science (grade 7)	Science (grade 7)	Science (grade 7) is an integration of the following science content areas: Earth and Space, Life, and Physical. Life Sciences builds upon students' science understanding the disciplinary core ideas, science and engineering practices, and crosscutting concepts of other experiences with physical and earth sciences from earlier grades to center the following disciplinary core ideas: From Molecules to Organisms: Structures and Processes; Ecosystems: Interactions, Energy, and Dynamics; Heredity: Inheritance and Variation of Traits; and Biological Evolution: Unity and Diversity. This course integrates these core ideas with NVACSS-aligned scientific and engineering practices and crosscutting concepts.

03238G080811F	Science (grade 8)	Science (grade 8)	Science (grade 8) is an integration of the following science content areas: Earth and Space, Life, and Physical. Earth and Space Sciences explain more in-depth phenomena central to the earth and space sciences, that integrate with life and physical sciences focusing on the following core ideas: Earth's Place in the Universe, Earth's Systems, and Earth and Human Activity. This course also focuses on the integration of engineering practices including design and evaluation using the NVACSS-aligned crosscutting concepts.