

HIGH SCHOOL SCIENCE COURSE CODES GRADES 9-12

High school (grades 9-12) courses in Science require 150 contact hours per credit.

| Course Code | Course Name | Grade Levels | Description | Accreditation Time/ Credit Options* | License/credential Required** |
|-------------|--|--------------|---|--|--|
| 00092 | Title I Secondary Generalist | 9-12 | To instruct students in a secondary setting who have failed to benefit from regular classroom instruction in any content subject where reading is a required skill. | Supplemental instruction -- provided as needed | License Code: 05020- Composite English ♦ 7-12 or 9-12 OR 15035-Composite Social Studies ♦ 7-12 or 9-12 OR 13047- Composite/General Science ♦ 7-12 or 9-12 AND Secondary Generalist credential |
| 13020 | Biology | 9-12 | To develop an understanding of life processes which are basic to the life. The study of plants, animals, and the human body. The study of drugs, alcohol, and tobacco may be included. Laboratory experiences with an abundance of living plants and animals, both in the classroom and out-of-doors. | ½ or 1 | License Code: 13010-Biology ♦ 7-12 or 9-12 |
| 13021 | Human Anatomy ♦ Prerequisite: Biology 13020 | 10-12 | An introduction to provide an advanced study of the structure of the human body. Note: This course can be taught for Science credit only. Human Anatomy courses are also coded in Health and in Physical Education areas. | ½ or 1 | |
| 13022 | Physiology ♦ Prerequisite: Biology 13020 | 10-12 | To provide students with detailed information about the human body. A study of the function of living organisms and their parts. The functions of the human body beyond those already covered in biology. Note: This course can be taught for Science credit only. Physiology courses are also coded in Health and in Physical Education areas. | ½ or 1 | |
| 13023 | Health | 9-12 | Community health, consumer health, disease control, family living, mental health, personal health, safety, and accident prevention. Note: This course can be counted as a health course to meet the statutory requirement for high school curriculum. Health courses are also coded in Family and Consumer Sciences, Health, and Physical Education areas. | ¼, ½, or 1 | |

Highlighted Yellow – Will be allowed as credit toward Physical Science

Highlighted Green – Will be allowed as credit toward Biology

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| 13029 | Advanced Biology ♦ Prerequisite: Biology 13020, chemistry 13031, and appropriate mathematics | 10-12 | To provide detailed study of biology. A continuation of the topics studied in Biology 13020, but the laboratory work is more advanced, involves a greater precision, research, and teamwork. Use of a variety of references. | ½ or 1 | License Code: 13010-Biology ♦ 7-12 or 9-12 |
| 13030 | Physical Science | 9-12 | Is a combination of the elementary fundamentals of chemistry and physics. It includes units on laboratory procedures, measurement, chemistry, heat, sound, light, and electricity. | ½ or 1 | License Code: 13045-Physical Science ♦ 7-12 or 9-12 |
| 13031 | Chemistry | 9-12 | A study of the composition of substances, their properties, and their interactions. | ½ or 1 | License Code: 13020-Chemistry ♦ 7-12 or 9-12 |
| 13032 | Advanced Chemistry ♦ Prerequisite: chemistry 13031 | 10-12 | To provide a more detailed study of chemistry. A continuation of the topics studied in Chemistry 13031 but the lab work should be more advanced. | ½ or 1 | |
| 13034 | Applied Biology/Chemistry | 9-12 | Applied Biology/Chemistry consists of twelve instructional units presenting the scientific fundamentals of biology and chemistry that provide a foundation for careers in: health careers, technology, agriculture/agribusiness, and home economics. This application-oriented, hands-on approach will assist the student to make the connection between abstract ideas and concrete experiences. With this fundamental basis in biology and chemistry the student will be better prepared to enter either chemistry courses, biology courses or vocational career options. | 1 or 2 | License Code: 13010-Biology ♦ 7-12 or 9-12 OR 13020-Chemistry ♦ 7-12 or 9-12 |
| 13042 | Physics | 9-12 | The study of relationships between matter and energy. | 1 | License Code: 13050-Physics ♦ 7-12 or 9-12 |
| 13044 | Applied Physics | 11-12 | To introduce students to mechanical, fluid, electrical, and thermal principles and systems on which modern equipment operates. Student activities examine the similarities of force, work, rate, resistance, energy, power, and force transformers in the mechanical, fluid, electrical, and thermal systems. | ½ or 1 | |
| 13045 | Principles of Technology | 10-12 | To introduce students to mechanical, fluid, electrical, and thermal principles and systems on which modern equipment operates. Student activities examine the similarities of force, work, rate, resistance, energy, power, and force transformers in the mechanical, fluid, electrical, and thermal systems. The labs require students to operate digital meters, power supplies, pumps, thermocouples, scales, and pulley systems. | 1 | |

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|-------------|---|--------------|--|-------------------------------------|--|
| 13061 | Astronomy | 9-12 | To provide students with a detailed study of one area of earth science. A study of the solar system, stars, and universe. Practical and relevant applications. | ¼ or ½ | License Code: 13035-Earth Science ♦ 7-12 or 9-12 |
| 13062 | Geology | 9-12 | To provide a detailed study of the history of the earth and its life as recorded in rock formations. | ¼, ½, or 1 | |
| 13063 | Earth Science (Secondary) | 9-12 | Astronomy, meteorology, geology, oceanography, ecology, and paleontology. | ½ or 1 | |
| 13064 | Meteorology | 9-12 | A study of weather, modification and forecasting; climate and atmospheric phenomena. | ¼ or ½ | |
| 13074 | Oceanography | 9-12 | To provide students with a detailed study of one area of earth science. A study of the ocean. | ¼ or ½ | |
| 13088 | Aerospace | 9-12 | Flight and conditions affecting flight, may also include flight indoctrination and flight training, if conditions make this available. Basic concepts involved with airplanes and flight. | ½ or 1 | |
| 13110 | Ecology | 9-12 | To provide an opportunity for students to increase awareness of the close ties between living organisms. Ecology concerns itself with the interrelationships of living organisms, and the environment. | ¼, ½, or 1 | License Code: 13010-Biology ♦ 7-12 or 9-12 |
| 13580 | Advanced Placement Biology© | 10-12 | Advanced Placement Biology refers to a specific course developed and copyrighted© by the College Board. Teachers of this course receive special training to teach the curriculum. | ½ or 1 | |
| 13581 | Advanced Placement Chemistry© | 10-12 | Advanced Placement Chemistry refers to a specific course developed and copyrighted© by the College Board. Teachers of this course receive special training to teach the curriculum. | ½ or 1 | License Code: 13020-Chemistry ♦ 7-12 or 9-12 |
| 13582 | Advanced Placement Environmental Science© | 10-12 | Advanced Placement Environmental Science refers to a specific course developed and copyrighted© by the College Board. Teachers of this course receive special training to teach the curriculum. | ½ or 1 | License Code: 13035-Earth Science ♦ 7-12 or 9-12 |

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| 13583 | Advanced Placement Physics B© | 10-12 | Advanced Placement Physics B refers to a specific course developed and copyrighted© by the College Board. Teachers of this course receive special training to teach the curriculum. | ½ or 1 | License Code: 13050-Physics ♦ 7-12 or 9-12 |
| 13584 | Advanced Placement Physics C: Electricity and Magnetism© | 10-12 | Advanced Placement Physics C: Electricity and Magnetism refers to a specific course developed and copyrighted© by the College Board. Teachers of this course receive special training to teach the curriculum. | ½ or 1 | |
| 13585 | Advanced Placement Physics C: Mechanics© | 10-12 | Advanced Placement Physics C: Mechanics refers to a specific course developed and copyrighted© by the College Board. Teachers of this course receive special training to teach the curriculum. | ½ or 1 | |

* High school curricular requirements are spelled out in NDCC 15.1-21-02. Accreditation Rules can be found at <http://www.legis.nd.gov/information/acdata/pdf/67-19-01.pdf>. For accreditation, schools must provide additional units of credit based on school enrollment [see NDAC 67-19-01-32 (3)].

* Please refer to the second page of the teacher's North Dakota Educator's Professional license to verify which subject areas a teacher is qualified to teach. Licenses and endorsements are obtained on a teaching license from the Education Standards and Practices Board (ESPB). Credentials are obtained from the Department of Public Instruction (DPI) and are issued to individuals holding a current teaching license.

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