

09-10 North Star Science Courses

20 science credits required for the class of 2010 and beyond, including:

- 5 credits minimum must be from a geoscience course* (Geoscience),
- 5 credits minimum must be from a physical sciences course*(Physical Science, Chemistry, Physics),
- 5 credits minimum must be from a biology or life science course* (Biology, Life Science),
- 5 credits minimum from one additional science course.

Recommended high school science sequence:

Grade 9: Physical Science* (1 semester) AND Geoscience* (1 semester)

Grade 10: Biology* (2 semesters)

Grade 11: Chemistry* (2 semesters)

Grade 12: Physics* (2 semesters)

**Or differentiated version*

Note: Pre-Med students are reminded that the Med. College Admission Test includes Math, Biology, Chemistry, & Physics.

COURSE TITLE	GRADE	PREREQUISITES	COMMENTS
Geoscience 68750/687590	09-12	None	Introduction to geology, earth's atmosphere, and selected astronomy topics. This course provides important topics covered in the Nebraska State Standards. Good lab-based preparatory course. This course meets the geoscience requirement. One semester, 5 Credits..
Geoscience-Differentiated 68760/687690	09-12	None	For motivated students with high interest and ability in science. Good lab-based preparatory course for advanced studies. Open to all interested students. This course meets the geoscience requirement. One semester, 5 credits
Physical Science 68250/682590	09-12	None	Introduction to the physical sciences of chemistry and physics. This course is an important support for future success in biology, chemistry, and physics. Good lab-based preparatory course. This course meets the physical science requirement. One semester, 5 Credits
Physical Science-Differentiated 68100/681090	09-12	None	For motivated students with high interest and ability in science. Good lab-based preparatory course for advanced studies. Open to all interested students. This course meets the physical science requirement. One semester, 5 Credits
Biology 67105 Biology offered at 7 AM 67105E	10-12	Geoscience & Physical Sciences recommended	Studies concepts of cellular organization, heredity, genetics, evolution, taxonomy and ecology. Good college preparatory course. This course meets the biology/life science requirement. Two semesters, 10 credits
**Biology-Differentiated 67205	10-12	Geoscience & Physical Sciences recommended	For motivated students with high interest and ability in science. Open to all interested students meeting the prerequisites. This course meets the biology/life science requirement. Two semesters, 10 credits
Chemistry 68355 Chemistry offered at 7 AM 68355E	10-12	Enrolled in or completed Geometry Completed Biology. (C+ or better in Biology recommended)	Chemistry is a rigorous study of the atomic composition, properties, and changes of matter. The course uses algebra and science in complex detail. Good college preparatory course. This course meets the physical science requirement. Two semesters, 10 credits
**Chemistry-Differentiated 68405	10-12	Adv. Algebra (may be concurrent)	For motivated students with high interest and ability in science. Open to all interested students meeting the prerequisites. This course meets the physical science requirement. Two semesters, 10 credits

Physics 68555 Physics offered at 7 am 68555E	11-12	Geometry (Adv Algebra or higher recommended)	Physics is a rigorous investigation of light, sound, waves, electricity, magnetism, energy, motion, vectors, and forces. The course uses algebra and science in complex detail. Good college preparatory course. This course meets the physical science requirement. Two semesters, 10 credits
**Physics-Differentiated 68605 Physics-D offered at 7am 68605E	11-12	Adv. Algebra or higher (may be concurrent), Chemistry recommended	For motivated students with high interest and ability in science. Open to all interested students meeting the prerequisites. This course meets the physical science requirement. Two semesters, 10 credits
**Anatomy & Physiology- Differentiated 67955	11-12	Biology and Chemistry with C grade or higher; Physics highly recommended-may be concurrent. Health Academy or Science Academy ONLY	For motivated students with high interest and ability in science and interested in health related fields. Highly detailed and advanced study of the structure and function of the human body. Concurrent enrollment in Physics* highly recommended. Health Academy or Science Academy ONLY. Two semesters, 10 credits <i>Note: Pre-Med students are reminded that the Med. College Admission Test includes Math, Biology, Chemistry, & Physics.</i>
Environmental Studies 67700	11-12	Biology (Chemistry recommended)	Studies impact of economics, society, and ethics on the environment. Explores solutions to environmental problems and utilizes the outdoors as a living classroom. One semester, 5 credits
Earth Systems 68780	11-12	Geoscience or Basic Geoscience	Scientific study of earth processes, composition, and changes. Includes: Volcanoes, earthquakes, oceans, soils, etc. Geoscience or Basic Geoscience needs to be successfully completed before taking this course. One semester, 5 credits
Basic Geoscience 68720	10-12	Placement Criteria- (see Counselor)	Introduction to geology, earth and space systems. This course meets the geoscience requirement. One semester, 5 credits NOTE: Credit may NOT be earned in both Basic Geoscience and Geoscience. Basic Geoscience does NOT meet science requirements for most colleges.
Basic Physical Science 68200	10-12	Placement Criteria (see Counselor)	Introduction to physics and chemistry. This course meets the physical science requirement. One semester, 5 Credits NOTE: Credit may NOT be earned in both Basic Physical Science and Physical Science. Basic Physical Science does NOT meet science requirements for most colleges.
Basic Life Science 66600	10-12	Placement Criteria (see Counselor)	Introduction to living systems, from simple forms of life to humans. This course meets the biology/life science requirement. One semesters, 5 credits NOTE: Credit may NOT be earned in both Basic Life Science and Biology. Basic Life Science does NOT meet science requirements for most colleges.
Basic Body Systems 66500	10-12	Placement Criteria (see Counselor)	Human body systems are studied including the circulatory system, digestive system, reproductive system, and endocrine system. One semester, 5 credits NOTE: Students may NOT enroll in Basic Body Systems and Biology concurrently. Students who have earned credit in Biology may NOT earn credit in Basic Body Systems. Basic Body Systems does NOT meet science requirements for most colleges.

**Weighted Class

+ Can be repeated for credit

* or Differentiated version