

Course #	Course	Description	Grade Lev	Prerequisites	Notes
056010	Physical Science	Students will learn about forces and motion, energy, electricity, atomic structure, and chemical and nuclear reactions. These concepts are in turn used to investigate earth and space systems. The Minnesota Standards addressed in this course include Physical Science, Earth and Space Science , and the Nature of Science and Engineering standards.	9	none	
053010	Chemistry	In introductory Chemistry students investigate fundamental chemistry with considerably more depth than in the Physical Science course. Important topics include atomic theory, the structure of matter, compounds, molecular bonding, chemical reactions, gas laws, solution chemistry, the electromagnetic spectrum, and organic chemistry. The chemistry portion of the Minnesota standards in physical science and in the history and nature of science are addressed. This is an NCAA Approved Course.	10-12	Physical Science	
054010	Physics	In Physics students investigate fundamental physics concepts with considerably more depth than in the Physical Science course. Important topics include motion, energy changes and transfer, and the structure of the Universe. The Minnesota standards addressed in this course include: Physical Science Physics, Physics, and the Nature of Science and Engineering. This is an NCAA Approved Course.	10-12	Physical Science	
052010	Biology	Biology students investigate fundamental concepts in the life sciences, including the cell, heredity, evolution, ecology, biochemistry, and homeostasis, . The Minnesota standards in life science and nature of science and engineering are addressed. This is an NCAA Approved Course.	10-12	Physical Science	

05931A	Astronomy	This course will explore the Astronomy topics: historical and current understandings of the formation and structure of our solar system; star types, formation, and lifecycle; and historical and current understandings of the formation and structure of the universe. This course will also explore the Physics topics: mechanics extension; heat extension; E-M wave and light extension; Nuclear Physics; and Relativity. Students registering for this class should have sound algebra skills and a desire to apply these skills to astronomical and physics related topics. This is an NCAA Approved Course.	9-12	none	
05921A	Ecology of MN	This semester long course covers the diverse natural history of the state of Minnesota. The course topics include ecology, zoology and environmental science with the interation of geology, meteorology, geography and history. The goal of the course is to have students leave with a greater understanding, appreciation and awareness of the rich natural history found in the state of Minnesota. This is an NCAA Approved Course.	9-12	none	
053099	Chemistry - Ind. Study	Biochemistry? Orgo? Courses in this classification, often conducted with instructors as mentors, enable students to explore topics of interest related to science. These courses may serve as an opportunity for students to expand their expertise, to explore a topic in detail, or to develop advanced skills.	12	Chemistry and Biology	

05231A	Anatomy/Physiology	Courses in this classification usually provide a comprehensive initial study of biology and examine the human body and biological systems in more detail. Topics include anatomical terminology, study cells and tissues, explore functional systems such as skeletal, muscular, circulatory, respiratory, digestive, reproductive, and nervous systems, and homeostasis. They may dissect mammals. This course is preparing students for a potential career in the health services industry.	11,12		
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