



Stony Point High School

Stony Point opened as Round Rock ISD's fourth high school in the fall of 1999. Modern facilities support the instructional programs in the Science and Medicine Academy. The Environmental students frequently travel to the Texas coast to conduct field research, and a strong alliance exists between Stony Point and the Science Department at the University of Texas. The Health Science students participate in laboratory skills designed to train them in the field of medicine and are able to job shadow in many areas of the medical field. Courses within the Science Department support training needs identified by local industries and hospitals. Teachers within the Career and Technical Education Department engage in continuous professional development that enables them to remain current with changes that impact their designated fields. We are excited about the possibilities that have developed within the Science and Medicine Academy.

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The Science and Medicine Academy

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The Science and Medicine Academy

Stony Point High School

2008-2009





Courses Offered

- AP Chemistry:** A college freshman level laboratory oriented concepts course . Topics include chemical reactions, thermodynamics, gas laws, nuclear chemistry, atomic structure, molecular structure and bonding, equilibrium, electrochemistry, and acids and bases. Laboratory investigations emphasize analysis of laboratory data and reports. *Prerequisites: Pre-AP Chemistry or Chemistry, Junior or Senior.*
- AP Physics:** A college-level, calculus-based course that includes the study of mechanisms, electricity, and magnetism. Topics include vectors, motion in two dimensions, projectile motion, energy, centripetal force, center of mass, and momentum. *Prerequisites: Pre-AP Physics or Physics, Concurrent enrollment in or completion of Calculus.*
- AP Biology:** A college-level, laboratory oriented course designed to prepare students for the AP exam. Topics include cells, chemistry as it relates to cells, heredity, genetics, organisms, ecology, and ecosystems. *Prerequisites: Pre-AP Biology and Pre-AP Chemistry, Junior or Senior.*
- AP Environmental Science:** An in depth study of the interdependence of Earth's Systems; human population dynamics; the distribution, ownership, use, and degradation of renewable and nonrenewable resources; environmental quality; consequences of global changes; and the environment and society.
- Scientific Research and Design:** Environmental Science, Chemistry, Engineering, or Biology. All laboratory-based classes with emphasis in their studies. *Prerequisites: Teacher Approval.*

•**Honors Aquatic Science:** Students study the geological, biological, physical, and chemical properties of aquatic systems through lecture, dissection, and field research. *Prerequisites: Teacher Approval and Junior or Senior.*

•**Medical Terminology:** This class develops a working knowledge of the language of medicine. Students learn prefixes, suffixes, roots and abbreviations which enhances the student's ability to secure a job or advance into further health care education.

•**Introduction to Health Science:** This course gives an overview of the therapeutic, diagnostic, environment and informational systems of the health care industry. The focus is on career exploration, leadership development, ethical and legal issues, and the history and trends in health care.

•**HST I:** Key concepts of this course include interpersonal relationships, ethical/legal responsibilities, medical terminology and investigation of various health careers. Skills learned through this course include taking vital signs, performing CPR, and using proper body mechanics. *Prerequisites: Sophomore, Junior, Senior.*

•**HST II:** This course is designed for students planning to enter a health care career. The student observes various health care professionals in a variety of occupations for approximately half of the year while participating in related learning activities in the classroom for the other half. *Prerequisites: Junior, HST I.*

•**HST III:** This course allows the student to be employed for a minimum of 15 hours per week in a health-related occupation. The student meets in a one-block class for specific instruction. *Prerequisites: Senior, HST II, Reliable transportation.*



•**Honors Anatomy and Physiology:** This course is advantageous for students who want to pursue Human Science or Medical careers. Students study the structure of the human body and how that structure's function helps the body move and live. *Prerequisites: Pre-AP Biology and Pre-AP Chemistry, Junior or Senior.*

•**Medical Microbiology:** This lab-based course studies the relationship between microorganisms and wellness and disease by performing labs on living microorganisms. *Prerequisites: Pre-AP Biology and Pre-AP Chemistry, Junior or Senior.*

•**Pathophysiology:** This course studies the disease process and how humans are affected. Emphasis is placed on prevention and treatment of diseases. *Prerequisites: Pre-AP Biology and Pre-AP Chemistry, Junior or Senior.*

•**Advanced Biotechnology:** This course is an introduction to the biotechnology field designed to prepare students with an overview of the history and current technologies in molecular biology, genomics, and bioinformatics. *Prerequisites: Pre-AP Biology and Pre-AP Chemistry, Junior or Senior.*