



BIO-MED

SCIENCE ACADEMY

1. Algebra II - Introduction to functions, systems of linear equations, exponents, polynomial operations, scientific notation. Factoring polynomials, solving quadratics by factoring, radicals and rational exponents will also be included.

OR

Algebra for Calculus and Trig - Study of linear and quadratic equations, their applications, solving rational and radical equations, complex numbers, linear, polynomial and rational inequalities, equations and inequalities involving absolute value, graphs of equations, relations and functions,...angles and their measure, right angle trigonometry, trigonometric functions of any angle, graphs of trigonometric ratios...

This course is offered as a Dual Enrollment course with an online component. Prerequisite – ACT math composite – 24

2. Chemistry – This course will familiarize students with atomic structure, chemical bonding and compounds, energy changes, gas laws, solutions and acids and bases. Students will develop an understanding of how the fundamentals of chemistry are threaded through Biological and environmental concepts.

This course is offered as a Dual Enrollment course with an online component. Prerequisite – ACT math composite – 22

3. Chinese II - Students will be deepen their understanding of the Chinese language and culture, stressing effective communication skills in both the written and spoken language and an understanding of the practices of Chinese culture.

4. Environmental Engineering - This course will investigate engineering and the effect it has on both our society and our environment. What exactly is “Green Engineering” and what will the future demand in terms of renewable sources. Students will also look at alternative forms of energy that are eco-friendly and if modern technology makes them a realistic option for the future.

5. Innovation and Entrepreneurship (1/2 unit) – This course will focus on recognizing opportunities that can be developed into a business. Topics of accounting, finance, marketing, management—as well as legal and economic considerations are applied.

6. Internet/Intranet Design and Development (1/2 unit) – In this course students learn to develop basic internet and intranet web pages and complete sites. Students learn the basics of web design and client side markup languages including HTML, CSS, XHTML, and XML.

This course is offered as a Dual Enrollment course with an online component. Prerequisite – ACT reading composite – 14

7. Language Arts - This course will be comprised of writing, reading and communication with an emphasis on world literature. Students will be exposed to a variety of culturally-diverse fiction and non-fiction texts, poetry, global communication opportunities and problem-based learning objectives. They will also explore the lifestyles of culturally-diverse people and experience one-on-one communication with them via phone, video chats or e-mail. They will continue to develop the skills of appropriate reading and writing for various mediums which in turn, will help in preparing them for state testing.

8. US/World History II – This introductory course will engage students in the study of the social and philosophical relationships humans and nations have with their environment as it relates to key events in US/World History from the end of WWI until modern times.