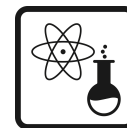


1Northern Valley Regional High School - Science Department



Biology and Chemistry

Dr. Jennifer Mezzina
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Physics

Ms. Jennifer Cusmano
Director of Career and Technical Education
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9th Grade Course Offerings

General Biology

This is a relevant and informative course designed to help the student gain understanding and mastery of fundamental biological concepts and ideas. The course content is aligned to the NJ Student Learning Standards. Topics include cell structure/function, reproduction, genetics, evolution, and ecology. The method of presentation ensures that students gain proficiency in critical thinking, organizational skills, and problem solving. Laboratory work is integrated throughout the course.

Biology 1 and Biology 1E

The primary purpose of this biology course is to gain a better understanding of the processes that govern the affairs of the living world and to improve the ability to use scientific practices. The course content is aligned to the NJ Student Learning Standards. Topics include cell structure/function, biochemistry, molecular biology, reproduction and development, genetics, evolution, and ecology. Laboratory experiences are integrated throughout the course. More in-depth activities related to research, open-ended inquiry, and technological components are included in this course.

Biology Honors

The primary purpose of this biology course is to participate in a comprehensive study of the processes that govern the affairs of the living world, and to improve the ability to use scientific processes. The course content is aligned to the NJ Student Learning Standards. Topics include cell structure/function, biochemistry, molecular biology, reproduction and development, genetics, evolution, and ecology. Laboratory experiences are integrated throughout the course. More in-depth activities related to research, open-ended inquiry, and technological components are included in this course. Students are expected to be self-directed and complete independent and collaborative tasks.

Science Elective Course Offerings

AP Biology
AP Chemistry
AP Physics 2
AP Physics C: Mechanics and E&M
AP Environmental Science
Forensic Science and Forensic Science Honors
Applications of Biology & Chemistry
Cellular Genetics Honors
Introduction to Anatomy & Physiology
Biomedical Technology 1 and 1 Honors (Grade 10)
Biomedical Technology 2 and 2 Honors (Grade 11)