

Central Dauphin High School

Science Department Guide to Course Selection



► **Goto: www.cdschools.org**
 ► **Academics**
 ► **Science Department**

Updated: 01/27/2016

Requirements/ Guidelines



Students are required to pass
3 science credits to graduate.

Students must take
Biology (only required course)
and 2 other electives.

Our Department believes that each
student should take a course in
Biology, Chemistry and Physics
before leaving Central Dauphin.

Students taking and passing 6 or more
science courses will receive
Science Merit Awards
at Senior Awards Night.



15 Courses Offered

Earth Systems Science

Biology I (required)
Honors Biology
Biology II
AP Biology



Chemistry
Honors Chemistry
Organic Chemistry
AP Chemistry

Human Influences on the Environment
AP Environmental Science



Science
Physics
AP Physics I
AP Physics II



Skills Emphasized

Scientific Literacy
Problem Solving/Critical Thinking
Independent/Collaborative Work
Self-Responsible Behavior
Communication Skills
Laboratory Skills



Activities and Clubs Offered

Friends of the Swamp
Pennsylvania Science and Engineering Fair
Pennsylvania Junior Academy of Science
Science Olympiad
Environthon



Staff Members

Bryan Baxter - Science
Alan Benson - Biology II, Biology
Sandy Canning - AP Biology, Biology
Scott Fields - Honors Biology (Department Chair)
Alan Klasek - Physics, Science
Rick Leuschner - AP Chemistry, Organic, Chemistry
Paul Matia - Honors Chemistry, Chemistry
Rahat Quli - AP Physics I + II, Science
Sandy Ramsey - Human Influences on the Environment
Dennis Smith - Earth Systems Science
Jason Reckner - Biology
Nancy Ringler - Chemistry
Brian Zellers - Biology, Science

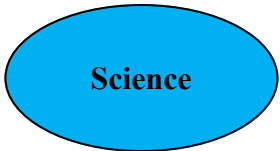


SCIENCE DEPARTMENT COURSE SELECTION

Other than Science, Medicine, or Engineering (Blue Track)
Recommended for students NOT majoring in science, medicine or engineer-

Science, Medicine, or Engineering (Green Track)
Recommended for students majoring in science, medicine or engineering.

Students failing 9th grade Science MUST repeat the course for 1 year before moving on

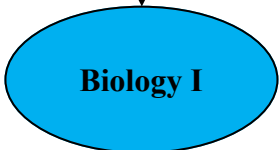


9th Grade Courses

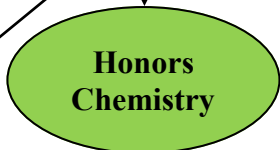


Prerequisites:
Must have 88% in Algebra I and 8th grade teacher recommendation

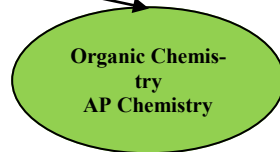
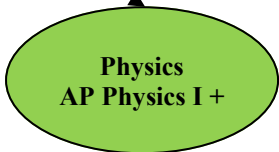
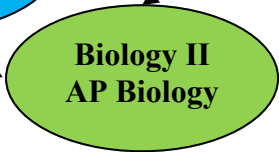
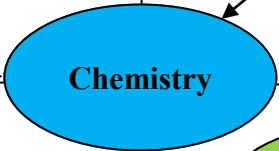
District/State graduation requirement:
Students failing Biology, MUST repeat the course.



10th Grade Courses



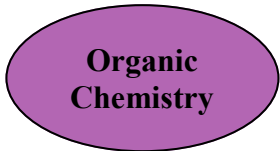
Prerequisites:
Honors Biology; taken or taking Algebra II; teacher recommendation



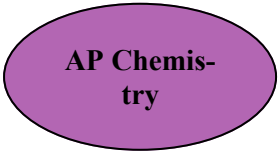
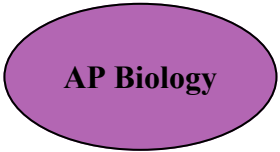
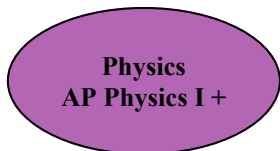
Only 3 science credits are required to graduate.

11th Grade Courses

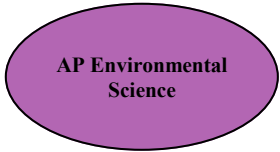
Must have Pre-Calculus A or higher.



Students may take these courses out of the regular sequence or concurrently along with other courses provided the prerequisites have been satisfied.



12th Grade Courses



Students are encouraged to take 4 or more courses during their 4 years.