

Practical Science advice for High School Planning

This document is designed to help students plan for their High School education. If students do not plan carefully for their High School sciences they may find themselves taking a class that they are not interested in or do not feel comfortable with.

In the High School level (grades 9-12) many of the **sciences become much more math intensive**. While this should not be used to dissuade a student from a science they are interested in, it should be considered before they miss out on an opportunity to select a different class.

In particular if a student is interested in an Earth Science class they must take it as a 9th grader as in almost all cases it is offered exclusively to 9th graders. Without taking an Earth Science class a student will **have** to take one of the more math intensive sciences; chemistry, physics or AP computer science (normal computer science classes do not count).

Students are required to take 2 years of a **Foundation Course** science class from two different fields of science and one year of either a **Foundation Course** or **Applied or Advanced Courses** in order to graduate from High School.

Foundation Courses – Accepted by the state, each class is not necessarily offered at every high school

Biological Science	Chemistry	Earth Systems	Physics	Computer Science*
<ul style="list-style-type: none"> • Biology • Biology: Agricultural Science & Technology+ • AP or IB Biology • Biology with Lab CE* 	<ul style="list-style-type: none"> • Chemistry • AP or IB Chemistry • Chemistry with Lab CE 	<ul style="list-style-type: none"> • Earth Science • AP Environmental Science • IB Environmental Systems 	<ul style="list-style-type: none"> • Physics • Physics with Technology • AP or IB Physics • Physics with Lab CE 	<ul style="list-style-type: none"> • AP Computer Science* • Computer Science Principles • Computer Programming II

Applied or Advanced Courses – Accepted by the state, each class is not necessarily offered at every high school

Agricultural Biotechnology+ Agricultural Science+ I, II, III, IV Aquaculture+ Animal Science+ I or II Astronomy** Biotechnology+ Biology Elective CE No SEEd Botany Chemistry Elective CE No SEEd Electronics+ 1, 2, 3 Engineering Principles+ 1, 2	Engineering Capstone+ Environmental Science** Equine Science+ Genetics** Geology** Human Anatomy Marine-Biology/Oceanography Material Science+ Medical Anatomy and Physiology+** Medical Forensics+ Meteorology** Natural Resource Science+ I, II	Physics No Lab CE No SEEd Plant and Soil Science+ I**, II Engineering+ Robotics+ 1, 2 Veterinary Assistant+ 1, 2 1, 2 Wildlife Biology Zoology + CTE Courses ** Include Applied/Advanced CE Courses
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University of Utah Entrance Requirements – High School Graduations requirements with a focus on Rigorous Courses (Honors, AP, IB and Dual/Concurrent Enrollment) ACT/SAT Requiredish

Utah State University – High school Diploma or GED required or 3 years of Lab-Based Science Recommended (one each: biology, chemistry, and physics) Test optional Entrance (if you want to you can, if you have a GPA below 2.8 they can help you get in)

BYU – Recommended 2-3 years of laboratory science

UVU – Open Admission (but must submit a high school Diploma or GED)

Snow College – Open Admission (but must submit a high school Diploma or GED)