

Course Requirements:

Flooded—The Foundations of Science

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Course Description:

This course teaches students the true foundations of scientific study, as defined by God and implied through His works, especially Creation week and the biblical Flood of Genesis 6-9. Using the details provided in Scripture concerning the biblical Flood, students will learn how to properly interpret physical evidence in the Universe around them scientifically. They will get hands on experience engaging in observational science at famous sites that are relevant to the Flood.

[For a note about using this course as credit towards a high school diploma, see page 3.]

Objectives:

Upon completion of this course, the student will:

- 1) Understand the purpose and importance of science, as defined by God (Genesis 1:28; Psalm 19:1).
- 2) More deeply understand and appreciate what occurred scientifically during and as a result of the Flood (Genesis 6-9).
- 3) Understand the value of using science to study the great works of the Lord (Psalm 111:2).
- 4) Be more prepared to respond to typical challenges to belief in Scripture, defending their faith (1 Peter 3:15).
- 5) See how the physical evidence supports biblical Creation, building their confidence in the reliability of Scripture (Romans 1:20).

Requirements:

- Before the trip:
 - Students will be responsible for purchasing a copy of *Flooded* and **reading** all of it prior to the trip to Arizona (store.apologeticspress.org).
 - While reading the book, students should be sure to **study** the relevant vocabulary for the section they are reading. On the FloodedBook.org site, go to “Teaching Tools > Vocabulary Lists” to study the vocabulary in the order in which it appears in the reading.
 - Students should **watch** all of the short videos found on the FloodedBook.org site. The videos are found under: “Teaching Tools > Helpful Videos > Short Videos.”

- Students should sign up (or be signed up by parents) to use the FloodedQuizzes.org site. Once signed in, click “Change My Group,” and enter the group shortname for the course. Students should then **complete** all of the quizzes on the FloodedQuizzes.org site.
 - Note: the quizzes cover the videos, the vocabulary terms, and the *Flooded* end-of-part questions.
 - Students may use notes, their book, and the videos to complete the quizzes (**except** the vocabulary quizzes), keeping in mind that the final exam will be closed notes/book.
- On the trip:
 - Students will attend and take notes during all daily **lectures**.
 - Students will participate in all **laboratories**.
 - Students will participate in all **fieldtrips**.
 - Students will attend all **devotionals** and evening **activities**.
 - A lab/field book will be provided to the students that must be **filled out** during the trip. The book will include laboratories, fieldtrip assignments, and pages for lecture notes.
 - A **final exam** will be administered towards the close of the trip, testing the students’ knowledge of *Flooded* and the material covered during the trip.
 - Note: Students will be responsible for making use of free time to study and **prepare** for the final exam.
 - The exam will be closed notes and closed book.
- After the trip:
 - Students will select a topic from a given list and write a 4-page, typed **essay** on the subject, to be turned in (e-mailed) by the stated deadline (to be determined).

A NOTE ABOUT RECEIVING HIGH SCHOOL CREDIT FOR THE COURSE:

Regulations for receiving high school credit for a course are state dependent. Some states are more flexible than others. For those who wish to use the course towards their high school diploma, they will need to work out the logistics of how to do so with their school/parents. Time-wise, the course would fill the requirement for a year's worth of science credit in many cases and an elective requirement in virtually all other cases.

Obviously, homeschoolers and private schoolers will have an easier time making the case to their cover school/private school for the course than public schoolers, but it is our opinion that a strong case can be made regardless of a student's school situation:

- (1) The course is being taught by a highly credentialed teacher with:
 - a. Four science degrees (B.S., Physical Science, Freed-Hardeman University; B.S., Mechanical Engineering, University of Texas at Arlington), including two graduate level degrees (M.S, Mechanical Engineering, University of Texas at Arlington; Ph.D., Bio-mechanical Engineering, Auburn University) and three minors;
 - b. Exhaustive first-hand experience in science fieldwork, much of which has been published in peer-reviewed journals and presented at conferences;
 - c. Extensive experience teaching/lecturing at middle school, high school, and college levels, including teaching science/engineering courses at the University level (Auburn University).
- (2) Between lectures, laboratories, field trips, and outside assignments, the course is easily over 120 hours of work for each student—a full year's worth of high school credit.
- (3) The material in the *Flooded* textbook was written on a high school level.
- (4) Note also that the course would be comparable to a high school version of "Foundations of Life and Physical Science." The College of Liberal and Professional Studies at the University of Pennsylvania has similar courses which go towards a Science Foundations certificate at the college level ([Certificate in Science Foundations Online | Penn LPS Online \(upenn.edu\)](#)).

From the University of Pennsylvania College of Liberal & Professional Studies site:

"The physical and life sciences enable us to better understand the workings of the universe and living things. The courses in this certificate program, which are designed to enhance your understanding of science, provide you with the foundations needed for further studies in this area. The objective of this certificate is to enable you to increase your skills as both a consumer and communicator of scientific information while at the same time honing the foundational skills required for careers in the sciences."

A couple of the courses they offer:

Phyl 1200: Foundations of Life Science

Phyl 1600: Foundations of Physical and Chemical Science