

APSci Syllabus

Genius is talent set on fire by courage.

Henry Van Dyke¹

We will do our best to light as many fires as possible in this course.

Class Information:

Tutor: Elizabeth Wachtler

cell/text: 909-319-4601 or email: wachtlerelizabeth@gmail.com

Term: Fall 2019, Spring 2020

Prudentia Christian Co-op

What will you do in APSci?

- 15 modules physical science topics
- independent scientific research project, experiment, and presentation

Bring to Class each week

1. textbook: *Exploring Creation with Physical Science, 2nd ed.* Apologia ISBN-13:9781932012774
2. student notebook: *Exploring Creation with Physical Science Student Notebook, 2nd ed.* (spiral)
3. completed assignments to turn in

Other Required Materials

- online access to my science website: wachtler.org
- online access & a free account with Thinkwave.com, a website to access your grades in APSci
- binder or report cover for independent scientific experiment, mostly kept at home
- science project display board, needed in March and April

Class Websites

- I have a science website (wachtler.org) directly related to this course.
Check wachtler.org each week for required videos and links.
- The APSCI Google Classroom website has extra handouts and PowerPoint presentations shown in class. Check Google Classroom anytime you need that information.

Independent Scientific Research Project and Experiment

You will research, plan, carry out, and present an independent scientific experiment this year.

There are 6 components:

- 1) background research report
- 2) testable question and experimental plan
- 3) executing the science experiment and collecting data
- 4) graphing your data
- 5) cumulative lab report
- 6) display board with an oral presentation of your work

Weekly Assignments:

• Student Notebooks (SNB)

1. **On Your Own (OYO) questions:** Complete all answers and **correct your work with a different color pen.** OYO answers are in the textbook after each module.
2. **SNB charts & diagrams:** found only in the SNB, based on graphics and info in the textbook.
3. **Study Guide (SG) pages:** The SG questions are review questions for the test. Complete, **check and correct your SG answers with a different color pen,** then take the module test. I will email you the answer key for the SG each week after you complete the SG.

¹ Henry Van Dyke. (n.d.). Amer. author, educator, pastor. Retrieved 06/12/2016, BrainyQuote.com http://www.brainyquote.com/quotes/authors/h/henry_van_dyke.html

• Tests

Module tests will be sent home in a test envelope every other week. These are "closed book" tests.

• Lab Reports

Some labs require a typed lab report that you email to me. Use MLA formatting for all typed reports.

• Independent Science Experiment

In addition to the above textbook-based assignments, students will have additional assignments to plan, execute, summarize, and present their independent scientific experiment.

Course Requirements & Grading:

Assignment:	% of Class Grade
- SNB (OYO, charts, etc. and Study Guides)	20%
- Lab Reports	30%
- Tests	20%
- Independent Science Experiment (research report, experiment plan, graphs, lab report, and board/presentation)	30%

Grading scale:	
98 – 100%	A+
93 – 97%	A
90 – 92%	A-
87 – 89%	B+
83 – 86%	B
80 – 82%	B-
77 – 79%	C+
73 – 76%	C
70 – 72%	C-
67 – 69%	D+
63 – 66%	D
60 – 62%	D-
59 or below	F

Extra Credit

If a student wants to earn extra credit, the student may revise a previously graded assignment for a higher grade. Because it requires a lot of time and energy to re-grade assignments, assignments revised for extra credit must show significant improvement to earn a grade adjustment. There is no promise the revised assignment will be graded higher than the original.

Calculators

You may use a calculator on homework and tests, but always **show your math work. Write out all equations and corresponding answers.** **Answers that don't include the equation(s) will not receive credit.**

Turning in Work and Absences

Email all typed reports to me on or before the due date: wachtlerelizabeth@gmail.com

Turn in student notebooks (SNBs) and tests during class. I will collect SNBs to grade at the end of each module. Work turned in late may lose points.

Let me know right away if you are absent or know in advance that you will be absent and we can arrange an alternative schedule for your assignments. Even when you are absent, you are still responsible for the work on the APSci calendar.

Honor Code

Let us honor God with honesty and integrity in this class. Students please sign the APSci Honor Code. Copying answers from answer keys is not allowed and you will lose my respect.

Why do I teach Science?

I love learning something new. I love to understand things, especially in the realm of science.

Acts 17:10 tells us the Bereans "received the Word with all readiness of mind, and searched the Scriptures daily, whether those things were so." Like them, we can test all that we learn about God's creation to make sure that it is God-honoring and consistent with God's design.

In this class, we will experience beautiful moments when it all fits together and expands our understanding of our Creator. Praise God!

♥ Mrs. Wachtler