

Introduction to Physical Science I, PS1315

Summer I, 2022

Online Course

Professor: Dr. Eddie Frank 'Trey' Holik III, VIN 121, 325-486-5452

Office Hours: MTWRF 11a-12p and by appointment

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Texts: "The Physical Universe", 17th edition or earlier, by Krauskopf and Beiser from McGraw-Hill, 2003 through 2021. You do not need to purchase a physical copy. To purchase the required online access, you need to attempt the first homework assignment, follow the prompts and create a user ID. More information can be found from a [video from McGraw-Hill](#). You may also purchase access through the Angelo State bookstore.

Course Description: An introductory physical science course to increase science appreciation by experiencing the scientific method and understanding Motion, Matter, and Fields.

Student Learning Outcomes: Upon completion of this course, the student will gain factual knowledge in science, learn fundamental principles of science, and gain a broader understanding and appreciation of science. Learning outcomes will be assessed through Article Mark-ups (CT1), in-home activities (EQS1 and EQS2), reading assignments, three exams, and a group project (CS3 and TW2).

Grading: Your course grade consists of an Article Markup worth 70 points, at-home activities worth 90 points, reading assignments worth 180 points, three exams worth 270 points, and a group project worth 90 points for a total of 700 points. An 'A' for the course is above 630 points, 'B' above 560 points, 'C' above 490 points, 'D' above 420 points, and 'F' below 420 points.

Exams: The three exams are 30 questions and one hour time limit. You have access to a practice exam for each to help you understand if you have studied enough for the grade you want. The practice exam does not have any point value and thus does not affect your final grade. You may only use a blank piece of paper and pen for calculations and a simple calculator for the exams. This implies not using notes, books, google, texting, calling, or any other means of cheating. A RAM does not lie, cheat, or steal, or tolerate those who do. There are no exam extensions or exceptions because ample time is given to complete all work ahead of schedule.

Course Schedule:

Chapter	Topic	Date	Activities and SmartBook Reading Assignments	Due Date
1	The Scientific Method	6-Jun	Solar System/ Article Markup	8-Jun/ 13-Jun
1	The Scientific Method	7-Jun	Gravity	19-Jun
2	Motion	8-Jun	Describing Motion	13-Jun
2	Motion	9-Jun	Gravitation	13-Jun
3	Energy	10-Jun	Work and Energy/ Falling Bodies	13-Jun/ 13-Jun
3	Energy	13-Jun	Momentum and Relativity	14-Jun
1-3	Exam	14-Jun		15-Jun
	Group Project	15-Jun	Group Project Intro	16-Jun
4	Energy and the Future	16-Jun	Fossil Fuels	20-Jun
4	Energy and the Future	17-Jun	Alternative Energy Sources	20-Jun
5	Matter and Heat	20-Jun	Fluids	21-Jun
5	Matter and Heat	21-Jun	Solids	22-Jun
	Group Project	21-Jun	Group Project Proposal Due	22-Jun
6	Electricity and Magnetism	22-Jun	Charge and Current/ Static Electricity Activity	23-Jun/ 27-Jun
6	Electricity and Magnetism	23-Jun	Magnets and Forces	27-Jun
4-6	Exam	25-Jun		27-Jun
7	Waves	27-Jun	Wave Sources and Types/ Wave Activity	28-Jun/ 30-Jul
7	Waves	28-Jun	Wave Behavior	29-Jul
	Group Project	29-Jun	Group Project Report	1-Jul
8	The Nucleus	30-Jun	Nuclear Structure and Energy	5-Jul
8	The Nucleus	1-Jul	Fission and Fusion	5-Jul
9	The Atom	4-Jul	Light and Matter Waves	7-Jul
9	The Atom	5-Jul	The Hydrogen Atom	8-Jul
7-9	Exam	6-Jul		8-Jul

Student Disability Services: ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA), and subsequent legislation. The Office of Student Affairs is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a

disability, and it is the student's responsibility to initiate such a request by contacting Ms. Dallas A. Swafford at dallas.swafford@angelo.edu.

Title IX: Angelo State University is committed to the safety and security of all students. If you or someone you know experience sexual harassment, sexual assault, domestic or dating violence, stalking, or discrimination, you may contact ASU's Title IX Coordinator Michelle Nicole Miller J.D. at michelle.miller@angelo.edu.

Student Absence for Observance of Religious Holy Days: A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for [Observance of Religious Holy Day](#) for more information.

Incomplete Grade Policy: It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 [Grading Procedures](#) for more information.

Academic Integrity: Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU. The College of Science and Engineering adheres to the Statement of [Academic Integrity](#).

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