

NASC 1100 Our Physical World - Matter & Energy – Fall 2019

(Updated 10-02-2019)

Instructor: Dr. Xunming Deng
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Email for missed class: nasc1100fall2019@yahoo.com
Office hours: Mon & Wed 2:30-3:30pm, Fri 9:30-10:30am, MH5002
Class time: MW: 1:00pm -- 2:20pm
Classroom: MH2002
Textbook: Conceptual Physical Science, Sixth Edition, Hewitt, Suchocki, & Hewitt. By Pearson.

Month	Mon		Wed	
Aug	26	Ch. 1	28	Ch. 2
Sept	2	Labor Day	4	Ch. 3
	9	Ch. 4	11	Ch. 5
	16	Ch. 6	18	Ch. 7
	23	Ch. 8	25	Midterm 1
	30	Ch. 9	2	Ch. 10A
Oct	7	Ch. 10B, 11A	9	Ch. 11B
	14	Review Ch. 1-11	16	Ch. 14
	21	Ch. 15	23	Midterm2
	28	Ch. 16	30	Ch. 17
Nov	4	Ch. 18	6	Ch. 22
	11	Veterans Day	13	Ch. 23
	18	Ch. 24	20	Midterm 3
	25	Ch. 26	27	Thanksgiving
Dec	2	Ch. 27	4	Ch. 28
	Final Exam on December 13 (Friday), 12:30--2:30pm			

Grades: Midterm 1: 20%
Midterm 2: 20%
Midterm 3: (Will pick the best 2 of three midterms)
Final Exam: 40%
Quizzes: 20%
Total: 100%

Quizzes:

There will be 4 to 8 quizzes, without pre-announcement. Each will last ~15min.

Class attendance: Class attendance is required. If you need to skip a class, you need to send me an email to NASC1100Fall2019@yahoo.com, with subject line "John DOE to miss NASC1100 class mm-dd-yyyy", before the class begins and provide reasonable and sufficient reason why you need to skip this class. If we conduct a quiz while you skipped this class with an accepted excuse, this quiz will not be counted for you, and your score on the quiz will be calculated based on your performance in the rest of quizzes.

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*0. Prologue: The Nature of Science

PART 1: PHYSICS

1. Patterns of Motion and Equilibrium
2. Newton's Laws of Motion
3. Momentum and Energy
4. Gravity, Projectiles, and Satellites
5. Fluid Mechanics
6. Temperature, Heat, and Thermodynamics
7. Heat Transfer and Change of Phase
8. Static and Current Electricity
9. Magnetism and Electromagnetic Induction
10. Waves and Sound
11. Light

PART 2: CHEMISTRY

- *12. Atoms and the Periodic Table
- *13. The Atomic Nucleus and Radioactivity
14. Elements of Chemistry
15. How Atoms Bond and Molecules Attract
16. Mixtures
17. How Chemicals React
18. Two Classes of Chemical Reactions
- *19. Organic Compounds

PART 3: EARTH SCIENCE

- *20. Rocks and Minerals
- *21. Plate Tectonics and Earth's Interior
22. Shaping Earth's Surface
23. Geologic Time—Reading the Rock Record
24. The Oceans, Atmosphere, and Climatic Effects
- *25. Driving Forces of Weather

PART 4: ASTRONOMY

26. The Solar System
27. Stars and Galaxies
28. The Structure of Space and Time

*) Chapters for self study