

Fall 2021

PHYS 203-101: The Earth in Space

George Georgiou

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The Earth in Space
Physics 203
Fall 2021

Section 101 – Thursday 6-8:50 KUPF 207

Instructor

Dr. George E. Georgiou

george.e.georgiou@njit.edu

Office Hours: After class or By appointment (send email)

Canvas: canvas.njit.edu – Syllabus, Lecture Notes and Videos in Files section

Textbook

David McConnell and David Steer. *The Good Earth: Introduction to Earth Science*, Fourth Edition. McGraw-Hill Education, United States of America, 2018. (or any earlier edition)

Grade

Your numerical final grade will be based upon **three examinations (22% each) and one Final Examination (34%)**. The examinations will be administered on the following dates.

Exam 1	Thursday 9/30 (covers thru week 4)
Exam 2	Thursday 10/28 (Covers week 5-8)
Exam 3	Thursday 11/18 (Covers week 9-11)
Final Exam	TBD during Finals week (all inclusive)

Grading formula: $.25(\text{exam 1+2}) + .15(\text{Project}) + .35(\text{Final})$

If you miss an examination, you will receive a grade of zero that will be calculated into your final grade. There are no make-up examinations (except for illness or work). The following table will determine your letter final grade.

80% to 100%	A
75% to 80%	B+
70% to 74%	B
60% to 69%	C+
50% to 59%	C
40% to 49%	D
0% to 39%	F

Exam grades will not be curved. Exams will consist of multiple-choice and/or true-false questions, all of which will come directly from topics discussed in class and/or topics discussed in the textbook. All exams are closed book and closed notes. Summary sheets will not be permitted

Earth in Space (Phys 203) and Earth in Space Laboratory (Phys 203A) are independent courses. You can register for either one of these courses without being registered for the other course. Withdrawal from one course does not mean you must withdraw from the other course.

Academic Integrity

All students who cheat during an examination are in violation of the Academic Honor Code. All such students will automatically fail the course and will be reported to the Dean of Student Services so that further action may be taken. Examples of cheating during an examination include, but are not limited to, talking with another student, copying work from another student's examination, allowing another student to copy work from your own examination, or use of any materials besides the examination paper and a writing utensil.

Course Schedule

Week 1	Sept. 2, 2021	introduction to Earth Science (Chapter One)
Week 2	Sept. 9, 2021	physical geography, cartography, and topography review of physics and chemistry (Chapter Seven)
Week 3,	Sept. 16, 2021	mineralogy (Chapter Seven) petrology (Chapter Seven)
Week 4	Sept. 23 , 2021	Earth in Space, structure and composition of the geosphere (Chapter Two) the theory of plate tectonics (Chapter Four) orology (Chapter Six)
Week 5	Sept. 30, 2021	seismology (Chapter Five) vulcanology (Chapter Six) paleogeology (Chapter Eight) First examination (through Week 4)
Week 6	Oct. 7, 2021	introduction to the ocean (Chapter Thirteen)
Week 7	Oct. 14, 2021	geological oceanography (Chapter Thirteen) chemical oceanography (Chapter Thirteen) biological oceanography (Chapter Thirteen)
Week 8	Oct. 21, 2021	physical oceanography: ocean currents (Chapter Thirteen) physical oceanography: ocean waves (Chapter Thirteen) coasts and shores (Chapter Thirteen)
Week 9	Oct. 28,2021	ATMOSPHERE (ch 14) Second examination (Week 5-8)
Week 10	Nov. 4,2021	ATMOSPHERE (Ch 14) WEATHER (Ch.15)
Week 11,	Nov. 11, 2021	CLIMATE (Ch.16)
Week 12	Nov. 18, 2021	GLOBAL WARMING (Ch. 17) Third examination (Week 9-11)
Thanksgiving Recess 11/25 – 11/28		
Week 13	Dec. 2, 2021	More Climate Change
Week 14	Dec. 9, 2021	REVIEW
Reading days	Monday and Tuesday December 13 and 14	

FINAL EXAM Dec. 16 (PROBABLY) **Cummulative,** ~1/2 same topics as exams1-2
~1/2 atmosphere, weather
climate/climate change