

Spring 2022

## PHYS 203-104: The Earth in Space

George Georgiou

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### Recommended Citation

Georgiou, George, "PHYS 203-104: The Earth in Space" (2022). *Physics Syllabi*. 448.  
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The Earth in Space  
Physics 203  
Spring 2022

Section 104 – Thursday 6-8:50      KUPF 202

**Instructor**

**Dr. George E. Georgiou**

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

**Canvas:** [canvas.njit.edu](https://canvas.njit.edu) – Syllabus, Lecture Notes and Videos in Files section

**Synchronous online via webex until 1/31**

**<https://njit.webex.com/meet/georgiou>**

**Textbook**

David McConnell and David Steer. *The Good Earth: Introduction to Earth Science*, McGraw-Hill Education. (any edition)

**Grade**

Your numerical final grade will be based upon **3 in-class exams (19% each), Final Exam (33%) and 10% Participation/Attendance.** The examinations will be administered on the following dates.

<b>(covers thru week 4)</b>	<b>Exam 1</b>	<b>Monday</b>	<b>2/21</b>
<b>(Covers week 5-8)</b>	<b>Exam 2</b>	<b>Monday</b>	<b>3/28</b>
<b>(Covers week 9-11)</b>	<b>Exam 3</b>	<b>Monday</b>	<b>4/18</b>
<b>5/9 -- all inclusive but ~1/2 after week 11))</b>	<b>Final Exam</b>	<b>TBD</b>	<b>(probably</b>

**Grading formula:**       $.19(\text{exam } 1+2+3) + .33(\text{Final}) + .10(\text{Participation})$

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.

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

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.

Course Schedule

Week 1	M Jan. 24, 2022	introduction to Earth Science System (Chapter One)
Week 2	M Jan. 31, 2022	Earth in Space (Exosphere)(Chapter Two) review of physics and chemistry (Chapter Seven)
Week 3	M Feb. 7, 2022	mineralogy (Chapter Seven) petrology (Chapter Seven)
Week 4	M Feb. 14, 2022	Plate tectonics – Earth’s crust (Chapter Four) orology (Mountains) (Chapter Six)
Week 5	M Feb. 21, 2022	seismology (Chapter Five) <b>First examination (through Week 4)</b>
Week 6	M Feb. 28, 2022	vulcanology (Chapter Six) Paleogeology – Geologic Time (Chapter Eight)
Week 7	M Mar. 7, 2022	introduction to the ocean (Chapter Thirteen) geological oceanography (Chapter Thirteen) chemical oceanography (Chapter Thirteen) biological oceanography (Chapter Thirteen)
	M Mar. 14, 2022	Spring Break
Week 8	M Mar. 21, 2022	physical oceanography: ocean currents (Chapter Thirteen) physical oceanography: ocean waves (Chapter Thirteen) coasts and shores (Chapter Thirteen)
Week 9	M Mar. 28, 2022	ATMOSPHERE (ch 14) <b>Second examination (Week 5-8)</b>
Week 10	M Apr. 4, 2022	ATMOSPHERE (Ch 14) WEATHER (Ch.15)
Week 11,	M Apr. 11, 2022	CLIMATE (Ch.16)
Week 12	M Apr. 18, 2022	GLOBAL WARMING (Ch. 17) <b>Third examination (Week 9-11)</b>
Week 13	M Apr. 25, 2022	More Global Warming
Week 14	M May 2, 2022	REVIEW

Reading days 5/4 (Wednesday) and 5/5 (Thursday)

FINAL EXAM M May 9 (PROBABLY) Cumulative, ~1/2 same  
 topics as exams 1-2 ~1/2  
 atmosphere, weather climate/climate  
 change

**Spring 2022 Calendar:**

January 18 (T)	First day of class
January 24 (M)	Last Day for 100% Refund, Full or Partial Withdrawal
February 14 (M)	Last Day for 50% Refund, Full Withdrawal
March 7 (M)	Last Day for 25% Refund, Full Withdrawal
March 14-19	Spring Recess Begins - No Classes Scheduled - University Open
April 4 (M)	Last Day to Withdraw
April 15 (F)	Good Friday - No Classes Scheduled - University Closed
May 3 (T)	Friday Classes meet – Last Day of Classes
May 4-5 (W-R)	Reading Days
May 6 – 12 (F-R)	Final Exam week
May 14 (Sat)	Final Grades Due