

Fall 2024

PHYS 203 - 101: The Earth In Space

George Georgiou

Follow this and additional works at: <https://digitalcommons.njit.edu/phys-syllabi>

Recommended Citation

Georgiou, George, "PHYS 203 - 101: The Earth In Space" (2024). *Physics Syllabi*. 745.
<https://digitalcommons.njit.edu/phys-syllabi/745>

This Syllabus is brought to you for free and open access by the NJIT Syllabi at Digital Commons @ NJIT. It has been accepted for inclusion in Physics Syllabi by an authorized administrator of Digital Commons @ NJIT. For more information, please contact digitalcommons@njit.edu.

The Earth in Space
Physics 203
Spring 2024

Section 101 – M 6-8:50 ECEC 100

Instructor

Dr. George E. Georgiou

TIER 423E

georgiou@njit.edu

Office Hours: M 4-5:30 or 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*, McGraw-Hill Education. (any edition)

Grade

Your numerical final grade will be based upon **3 in-class exams (22% each), and a Final Exam (34%)**. The examinations will be in class and administered on the following dates.

Exam 1	Monday 10/7 (covers thru week 4)
Exam 2	Monday 11/4 (Covers week 5-8)
Exam 3	Monday 11/25 Covers week 9-11)
Final Exam	TBD, probably 12/16 (all inclusive but ~1/2 after week 10)

Grading formula: $.22(\text{exam } 1+2+3) + .34(\text{Final})$

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.

90% to 100%	A
85% to 90%	B+
70% to 85%	B
65% to 70%	C+
55% to 65%	C
40% to 54%	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.

Course Schedule

Week 1	M Sep. 9, 2024	introduction to Earth Science System (Chapter One)
Week 2	M Sep.16, 2024	Earth in Space (Exosphere)(Chapter Two) review of physics and chemistry (Chapter Seven)
Week 3 ,	M Sep. 23, 2024	mineralogy (Chapter Seven) petrology (Chapter Seven)
Week 4	M Sep 30 2024	Plate Tectonics (Chapter Four) Mountains – Orology (Chapter Six)
Week 5	M Oct. 7, 2024	seismology (Chapter Five) First examination (through Week 4)
Week 6	M Oct. 14, 2024	vulcanology (Chapter Six) paleogeology (Chapter Eight)
Week 7	M Oct. 21, 2024	introduction to the ocean (Chapter Thirteen) geological oceanography (Chapter Thirteen) chemical oceanography (Chapter Thirteen) biological oceanography (Chapter Thirteen)
Week 8	M Oct. 28, 2024	physical oceanography: ocean currents (Chapter Thirteen) physical oceanography: ocean waves (Chapter Thirteen) coasts and shores (Chapter Thirteen)
Week 9	M Nov. 4, 2024	ATMOSPHERE (ch 14) Second examination (Weeks 5-8)
Week 10	M Nov. 11, 2024	ATMOSPHERE (Ch 14) WEATHER (Ch.15)
Week 11,	M Nov. 18, 2024	CLIMATE (Ch.16)
Week 12	M Nov. 25, 2024	GLOBAL WARMING (Ch. 17) Third examination (Weeks 9-11)
Week 13	M Dec. 2, 2024	More Climate and Global Warming
Week 14	M Dec 9, 2024	REVIEW
Last Day of Class		W Dec. 11,2024
Reading Days		R and F Dec. 12 and 13
FINAL EXAM		TBD Probably 12/16 Cumulative, ~1/2 same topics as exams1-2 ~1/2 atmosphere, weather climate/climate change

Sept	2	Monday -- Labor Day. University Closed
Sept	3	Tuesday -- First Day of Classes
Sept	9	Monday -- Last Day to Add/Drop a Class
Sept	9	Monday -- Last Day for 100% Refund, Full or Partial Withdrawal
Sept	10	Tuesday -- W Grades Posted for Course Withdrawals
Sept	16	Monday -- Last Day for 90% Refund, Full or Partial Withdrawal - No Refund for Partial Withdrawal after this date
Sept	30	Monday -- Last Day for 50% Refund, Full Withdrawal
Oct	21	Monday -- Last Day for 25% Refund, Full Withdrawal
Nov	11	Monday -- Last Day to Withdraw from Classes
Nov	26	Tuesday -- Thursday Classes Meet
Nov	27	Wednesday -- Friday Classes Meet
Nov	28	Thursday -- Thanksgiving Recess Begins. No Classes
Dec	1	Sunday -- Thanksgiving Recess Ends
Dec	11	Wednesday -- Last Day of Classes
Dec	12	Thursday -- Reading Day 1
Dec	13	Friday -- Reading Day 2
Dec	14	Saturday Classes Meet
Dec	15	Sunday -- Final Exams Begin
Dec	21	Saturday -- Final Exams End
Dec	23	Monday -- Final Grades Due