

The Earth in Space  
Physics 203  
Spring 2023

Section 010 – M 1-2:20      TLH1  
   R 11:30-12:50      ECEC 100

**Instructor**

**Dr. George E. Georgiou**

**Tier 423E**

**[georgiou@njit.edu](mailto:georgiou@njit.edu)**

**Office Hours:** R 1-2 or after class or By appointment (send email)

**Canvas:** [canvas.njit.edu](https://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 (19% each), Final Exam (33%) and 10% Participation/Attendance.** The examinations will be administered on the following dates.

|            |   |
|------------|---|
| Exam 1     | Thursday 2/16 (covers thru week 4)          |
| Exam 2     | Thursday 3/23 (Covers week 5-8)             |
| Exam 3     | Thursday 4/13 (Covers week 9-11)            |
| Final Exam | TBD (all inclusive but ~1/2 after week 11)) |

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.

|             |    |
|-------------|----|
| 85% to 100% | A  |
| 80% to 85%  | B+ |
| 70% to 79%  | 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.

**Course Schedule**

|          |                                  |  |
|----------|----------------------------------|--|
| Week 1   | R Jan. 19, 2023                  | introduction to Earth Science System (Chapter One)   |
| Week 2   | R Jan. 26, 2023                  | Earth in Space (Exosphere)(Chapter Two)<br>review of physics and chemistry (Chapter Seven)   |
| Week 3 , | R Feb. 2,2022                    | mineralogy (Chapter Seven)<br>petrology (Chapter Seven)  |
| Week 4   | R Feb. 9 2023                    | Plate Tectonics (Chapter Four)<br>Mountains – Orology (Chapter Six)  |
| Week 5   | M Feb.13, 2023<br>R Feb 16, 2023 | seismology (Chapter Five)<br><b>First examination (covers through Week 4)</b>  |
| Week 6   | R Feb.23,2023                    | vulcanology (Chapter Six)<br>paleogeology (Chapter Eight)  |
| Week 7   | R Mar. 2, 2023                   | introduction to the ocean (Chapter Thirteen)<br>geological oceanography (Chapter Thirteen)<br>chemical oceanography (Chapter Thirteen)<br>biological oceanography (Chapter Thirteen) |
| Week 8   | R Mar. 9, 2023                   | physical oceanography: ocean currents (Chapter Thirteen)<br>physical oceanography: ocean waves (Chapter Thirteen)<br>coasts and shores (Chapter Thirteen)                            |

## SPRING BREAK

**Mar. 13-18**

|          |                                    |  |
|----------|------------------------------------|--|
| Week 9   | M Mar. 20, 2023<br>R Mar. 23, 2023 | ATMOSPHERE (ch 14)<br>Second examination (Covers Weeks 5-8)      |
| Week 10  | R Mar. 30, 2023                    | ATMOSPHERE (Ch 14)<br>WEATHER (Ch.15)                            |
| Week 11, | R Apr. 6, 2023                     | CLIMATE (Ch.16)  |
| Week 12  | M Apr. 10, 2023<br>R Apr. 13, 2023 | GLOBAL WARMING (Ch. 17)<br>Third examination (Covers Weeks 9-11) |
| Week 13  | R Apr. 20, 2023                    | More Climate and Global Warming                                  |
| Week 14  | R Apr. 27, 2023                    | REVIEW   |

## Reading Days

May 3-4

# FINAL EXAM

TBD May 5-11

Cummulative, ~1/2 same topics as exams1-2  
~1/2 atmosphere, weather  
climate/climate change

**Spring 2023 Calendar:**

|          |    |           |   |
|----------|----|-----------|---|
| January  | 16 | Monday    | Martin Luther King, Jr. Day   |
| January  | 17 | Tuesday   | First Day of Classes  |
| January  | 23 | Monday    | Last Day to Add/Drop a Class  |
| January  | 23 | Monday    | Last Day for 100% Refund, Full or Partial Withdrawal  |
| January  | 24 | Tuesday   | W Grades Posted for Course Withdrawals  |
| January  | 30 | Monday    | Last Day for 90% Refund, Full or Partial Withdrawal, No Refund for Partial Withdrawal after this date |
| February | 13 | Monday    | Last Day for 50% Refund, Full Withdrawal  |
| March    | 6  | Monday    | Last Day for 25% Refund, Full Withdrawal  |
| March    | 13 | Monday    | Spring Recess Begins - No Classes Scheduled - University Open   |
| March    | 18 | Saturday  | Spring Recess Ends  |
| April    | 3  | Monday    | Last Day to Withdraw  |
| April    | 7  | Friday    | Good Friday - No Classes Scheduled - University Closed  |
| April    | 9  | Sunday    | Easter Sunday - No Classes Scheduled - University Closed  |
| May      | 2  | Tuesday   | Friday Classes Meet   |
| May      | 2  | Tuesday   | Last Day of Classes   |
| May      | 3  | Wednesday | Reading Day 1   |
| May      | 4  | Thursday  | Reading Day 2   |
| May      | 5  | Friday    | Final Exams Begin   |
| May      | 11 | Thursday  | Final Exams End   |
| May      | 13 | Saturday  | Final Grades Due  |
| TBA      |    |           | Commencement  |
|          |    |           |   |