

Spring 2020

## PHYS 203-102: The Earth in Space

George Georgiou

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**The Earth in Space  
Physics 203 Section 102  
Spring 2020  
Tuesdays, 6-8:50 p.m. KUPF 207**

**Instructor**

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**Office Hours:** T 4-5:30 or after class or by appointment (send email)

**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 five examinations (16% each) and one Final Examination (20%). The examinations will be administered on the following dates.

|                    |                            |
|--------------------|----------------------------|
| First Examination  | Tuesday, February 04, 2020 |
| Second Examination | Tuesday February 25, 2020  |
| Third Examination  | Tuesday, March 24, 2020    |
| Fourth Examination | Tuesday, April 7, 2020     |
| Fifth Examination  | Tuesday, April 28, 2020    |
| Final Examination  | Tuesday, May 12, 2020      |

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 84%  | B+ |
| 70% to 79%  | B  |
| 65% to 69%  | C+ |
| 50% to 64%  | C  |
| 40% to 49%  | D  |
| 0% to 39%   | F  |

The examination grades will not be curved. Examinations 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. Each examination, including the Final Examination, will be closed book and closed notes. No formula sheet or cheat sheet will be provided, nor will either be permitted for any of the examinations.

The Earth in Space (Phys 203) and The Earth in Space Laboratory (Phys 203A) are two separate courses for which you will receive two separate and independently-determined grades. Moreover, you are free to be registered for either one of these courses without being registered for the other course. If you are registered for both courses, withdrawal from one course does not mean you must withdraw from the other course.

**Academic Integrity**

All students who are disruptive in the classroom are in violation of the Academic Honor Code. All such students will be dismissed from the classroom and will be reported to the Dean of Student Services.

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

|            |                   |   |
|------------|-------------------|---|
| Tuesday,   | January 21, 2020  | introduction to Earth Science (Chapter One)   |
| Tuesday,   | January 28, 2020  | physical geography, cartography, and topography<br>review of physics and chemistry (Chapter Seven)  |
| Tuesday,   | February 04, 2020 | First Examination<br>mineralogy (Chapter Seven)<br>petrology (Chapter Seven)  |
| Tuesday,   | February 11, 2020 | structure and composition of the geosphere (Chapter Two)<br>the theory of plate tectonics (Chapter Four)<br>orology (Chapter Six)   |
| Tuesday,   | February 18, 2020 | seismology (Chapter Five)<br>vulcanology (Chapter Six)<br>paleogeology (Chapter Eight)  |
| Tuesday,   | February 25, 2020 | Second Examination<br>introduction to the ocean (Chapter Thirteen)  |
| Tuesday,   | March 03, 2020    | geological oceanography (Chapter Thirteen)<br>chemical oceanography (Chapter Thirteen)<br>biological oceanography (Chapter Thirteen)  |
| Tuesday,   | March 10, 2020    | physical oceanography: ocean currents (Chapter Thirteen)<br>physical oceanography: ocean waves (Chapter Thirteen)<br>coasts and shores (Chapter Thirteen)   |
| Tuesday,   | March 17, 2020    | spring break (no classes)   |
| Tuesday,   | March 24, 2020    | Third Examination<br>introduction to the atmosphere (Chapter Fourteen)  |
| Tuesday,   | March 31, 2020    | basic concepts in meteorology (Chapter Fourteen)<br>the fundamental models of meteorology (Chapter Fifteen)<br>applications of meteorological models (Chapter Fifteen)<br>climatology (Chapter Sixteen) |
| Tuesday,   | April 07, 2020    | Fourth Examination<br>introduction to geomorphology (Chapter Nine)  |
| Friday,    | April 10, 2020    | Good Friday (no classes)  |
| Tuesday,   | April 14, 2020    | soil science (Chapter Nine)<br>mass wasting (Chapter Ten)<br>fluvial processes (Chapter Eleven)   |
| Tuesday,   | April 21, 2020    | groundwater processes (Chapter Twelve)<br>aeolian processes (Chapter Sixteen)<br>glaciology (Chapter Sixteen)   |
| Tuesday,   | April 28, 2020    | Fifth Examination   |
| Tuesday,   | May 05, 2020      | NO CLASS -- NJIT follows a Friday schedule  |
| Wednesday, | May 06, 2020      | reading day   |
| Thursday,  | May 07, 2020      | reading day   |
| Tuesday,   | May 12, 2020      | Final Examination   |

## Spring 2020 Academic Calendar

|          |       |           |  |
|----------|-------|-----------|--|
| January  | 20    | Monday    | Martin Luther King, Jr. Day  |
| January  | 21    | Tuesday   | First Day of Classes   |
| January  | 31    | Friday    | Last Day for 100% Refund, Full or Partial Withdrawal   |
| February | 3     | Monday    | Last Day for 90% Refund, Full or Partial Withdrawal –<br>No Refund for Partial Withdrawal after this date. |
| February | 17    | Monday    | Last Day for 50% Refund, Full Withdrawal   |
| March    | 9     | Monday    | Last Day for 25% Refund, Full Withdrawal   |
| March    | 15-22 | Sun.-Sun. | Spring Recess - No Classes Scheduled - University Open   |
| April    | 6     | Monday    | Last Day to Withdraw   |
| April    | 10    | Friday    | Good Friday - No Classes Scheduled - University Closed   |
| May      | 5     | Tuesday   | Friday Classes Meet, Last Day of Classes   |
| May      | 6-7   | Wed-Thurs | Reading Days   |
| May      | 8-14  | Fri-Thurs | Final Exams  |
| May      | 16    | Saturday  | Final Grades Due   |