

Spring 2020

PHYS 203-002: The Earth in Space

Tao Zhou

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**New Jersey Institute of Technology
College of Science and Liberal Arts
Department of Physics**

The Earth in Space, Section 002

Phys 203–002

Spring 2020

Mondays, 01:00 p.m. to 02:20 p.m.

Kupfrian Hall, Room 203

Wednesdays, 01:00 p.m. to 02:20 p.m.

Kupfrian Hall, Room 203

Instructor

Professor Tao Zhou, Ph.D.
Tiernan Hall, Room 478
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Textbook

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

Grade

Your final grade will be based upon class participation and quizzes (10%), 3 examinations (20% each) and one Final Examination (30%). The examinations will be administered on the following dates.

First Examination	Wednesday, February 19, 2020
Second Examination	Wednesday, March 11, 2020
Third Examination	Wednesday, April 8, 2020
Final Examination	to be announced

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. The following table will determine your 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, nor will the final grades be curved. Each examination, including the Final Examination, 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.

Schedule

Wednesday, January 22, 2020	introduction to Earth Science (Chapter One)
Monday, January 27, 2020	Earth in space (Chapter Two)
Wednesday, January 29, 2020	fundamentals of chemistry and physics (Chapter Seven)
Monday, February 03, 2020	mineralogy (Chapter Seven) petrology (Chapter Seven)
Wednesday, February 05, 2020	structure and composition of the geosphere (Chapter Two)
Monday, February 10, 2020	the theory of plate tectonics (Chapter Four)
Wednesday, February 12, 2020	seismology (Chapter Five)
Monday, February 17, 2020	orology and vulcanology (Chapter Six)
Wednesday, February 19, 2020	First Examination
Monday, February 24, 2020	paleogeology (Chapter Eight)
Wednesday, February 26, 2020	introduction to the ocean (Chapter Thirteen) geological oceanography (Chapter Thirteen)
Monday, March 02, 2020	chemical oceanography (Chapter Thirteen) biological oceanography (Chapter Thirteen)
Wednesday, March 04, 2020	physical oceanography: ocean currents (Chapter Thirteen) physical oceanography: ocean waves (Chapter Thirteen)
Monday, March 09, 2020	coasts and shores (Chapter Thirteen)
Wednesday, March 11, 2020	Second Examination
Monday, March 16, 2020	spring break (no classes)
Wednesday, March 18, 2020	spring break (no classes)
Monday, March 23, 2020	introduction to the atmosphere (Chapter Fourteen)
Wednesday, March 25, 2020	basic concepts in meteorology (Chapter Fourteen)
Monday, March 30, 2020	the fundamental models of meteorology (Chapter Fifteen)
Wednesday, April 01, 2020	applications of meteorological models (Chapter Fifteen)
Monday, April 06, 2020	climatology (Chapter Sixteen)
Wednesday, April 08, 2020	Third Examination
Friday, April 10, 2020	Good Friday (no classes)
Monday, April 13, 2020	introduction to geomorphology (Chapter Nine)
Wednesday, April 15, 2020	soil science (Chapter Nine) mass wasting (Chapter Ten)
Monday, April 20, 2020	fluvial processes (Chapter Eleven)
Wednesday, April 22, 2020	groundwater processes (Chapter Twelve)
Monday, April 27, 2020	aeolian processes (Chapter Sixteen) glaciology (Chapter Sixteen)
Wednesday, April 29, 2020	Global change (Chapter Seventeen)
Monday, May 04, 2020	review
Tuesday, May 05, 2020	NJIT follows a Friday schedule
Wednesday, May 06, 2020	reading day
Thursday, May 07, 2020	reading day
to be announced	Final Examination