

INSTRUCTOR	Name: TBA and E-mail: TBA
OFFICE HOURS	Hours and Location: TBA
TEXTBOOK	Earth Science Laboratory Manual (Physics 203A), sold by NJIT bookstore.
DESCRIPTION	PHYS 203A is a laboratory course associated with The Earth in Space course (PHYS 203). The manual is also used as a lab report.
HELP	<ul style="list-style-type: none"> - Visit or email your instructor if you are having trouble with the lab course. - If you need an accommodation due to a disability, please contact Scott Janz (scott.p.janz@njit.edu 973-596-5417), Associate Director of the Office of Accessibility Resources and Services, Kupfrian Hall 201 to discuss your specific needs.
GENERAL INFORMATION	<ul style="list-style-type: none"> - There is no exam in the lab course. - No make-up for missing labs is allowed. - No eating or drinking in the laboratory room. - Experiments are a group effort. - Laboratory reports should be individual ones submitted by each student. - Lab computer login method: Username: your UCID and Password: your UCID password
DELIVERY MODE	<p>Face-to-Face:</p> <p>Delivery of instruction is structured around in-person classroom meeting times. Instruction is delivered in person and students are expected to attend class.</p>
LEARNING OBJECTIVES	<ul style="list-style-type: none"> - Students will master basic physics concepts by performing an experiment relevant to corresponding course work. - Students will gain hands-on experiences with experimental processes. - Students should develop collaborative learning skills by working in a group.
LEARNING OUTCOMES	<ul style="list-style-type: none"> - Students will demonstrate basic experimental skills by practicing setting up and conducting an experiment. - Students will demonstrate an understanding of the analytical methods required to interpret and analyze results and draw conclusions as supported by their data. - Students will demonstrate basic communication skills by working in groups on laboratory experiments and the thoughtful discussion and interpretation of data.
ATTENDANCE	<ul style="list-style-type: none"> - Attendance policy is very strict. It is a student's responsibility to confirm his/her attendance with the Lab instructor. - It is required for students to attend all lab experiments since grading is based on attendance, participation, and lab report. - It is required for a student to sign the attendance sheet in every lab class. If a student fails to sign it, it is treated as being absent. - Attendance will be checked in the beginning and middle of each class by your instructor. - If a student does not appeal and resolve his/her attendance within 7 days, no further complaint will be accepted. - If a student makes more than 3 unexcused absences, the student is very likely to fail the lab course. - If a student has excusable absences, the student should contact the dean of student office to email an official excuse to his/her lab instructor.
GRADING POLICY	<ol style="list-style-type: none"> 1. The grading guidelines are as follows: Attendance (20%); Participation (20%); Laboratory Report (60%) 2. A grade of zero (0) will be given for any missed experiment with no excuse. 3. It is required to submit a lab report at the end of each lab – penalty for lateness is 10 % per day.
GRADING SCALE	90 - 100 % = A, 85 – 89 % = B+, 80 – 84 % = B, 75 – 79 % = C+, 65 – 74 % = C, 50 – 64 % = D, 0 – 49 % = F

LAB COURSE SCHEDULE

Week	Period	Experiment
1*	1/16(T) - 1/22(M)	Introduction
2	1/23(T) - 1/29(M)	Earth's Geography I
3	1/30(T) - 2/5(M)	Earth's Geography II
4	2/6(T) - 2/12(M)	Rock Identification
5	2/13(T) - 2/19(M)	Properties of Water: Latent Heat of Fusion
6	2/20(T) - 2/26(M)	Earthquakes: Locating the Epicenter
7	2/27(T) - 3/4(M)	Understanding Density
8**	3/5(T) - 3/18(M)	The Archimedes Principle
9	3/19(T) - 3/25(M)	The Acceleration due to Gravity
10***	3/26(T) - 4/1(M)	Properties of Water: Specific Heat
11	4/2(T) - 4/8(W)	Properties of Water: Dissolved Oxygen
12	4/9(T) - 4/15(M)	Properties of Water: Salinity
13	4/16(T) - 4/22(M)	The Ideal Gas Law: Determining the Absolute Zero of Temperature
14****	4/22(T) - 4/30(T)	No Lab

* 1/22 (Monday) Last Day to add/drop a class

** 3/11 (Mon.) through 3/16 (Sat.) NJIT Spring Recess. No Classes.

*** 3/29 (Fri.) Good Friday. No Classes.

*** 4/1 (Mon.) Last Day to Withdraw

***** 4/30 (Tue.) Friday classes meet. The lab experiment in Week 10 (skipped on Good Friday) will be performed.

Physics Laboratory Safety

1. Food and drink are not permitted during class in the lab at any time.
2. Wear safety glasses all the time during lab experiments.
3. Do not come into the lab room early unless the instructor is present.
4. Do not wear loose hair or clothing around moving equipment.
5. Do not set equipment too close to the edge of the table.
6. Do not activate any electric circuit or apparatus until the instructor inspects it.
7. Never touch a possibly live circuit and do not touch electrical equipment with wet hands.
8. Only use laboratory equipment for the instructional purpose for which it was intended.
9. Never look directly at the beam of a laser and light from a lamp used for experiment.
10. All trash and waste materials should be disposed of in the proper container. Do not pour chemicals into the laboratory sink.
11. Do not shorten the electrical leads on any equipment.
12. Any equipment except computers not in use should be turned off.
13. Do not take apart any apparatus or piece of equipment.
14. All damaged equipment and chemical spills should be immediately reported to a laboratory instructor or laboratory staff.
15. Accidents and emergencies must be immediately reported to the laboratory instructor. (NJIT Emergency call number: 911)
16. Be aware that fire extinguishers are in Rooms 406T and 407T.