

# **GEOL 10100 - Introductory Geology Laboratory Syllabus (Fall 2021)**

## **Lab Meeting Time/Location:**

Section1: 9:45am – 11:00am Mon/Thu

Section2: 11:10 am -12:25 pm Mon/Thu

**Instructor:** Rahul Sahajpal

**Office Hours:** By appointment:

**E-mail:** Rahul.Sahajpal51@myhunter.cuny.edu (communications to me must have GEOL 101 in the subject line and you must sign your full name as it appears in CUNYFirst.)/  
Rahul.sahajpal@gmail.com/Skype: Rahul.sahajpal2019@outlook.com.

## **Brief description/purpose of course:**

GEOL 10100, Introductory Geology Lab, is a hands-on laboratory science course. GEOL 10100 assists you, in learning and expanding your understanding of the scale of the Earth and the forces that shape it. This course will serve as an introduction to the earth sciences and will prepare you for further coursework in the Environmental Studies program. It will also give you a working knowledge and vocabulary to take other physical geography and geology courses. Moreover, it will introduce you to some of the cutting-edge technologies used in the earth sciences, potentially drawing some of you into an earth science related career path

\*This course will fulfill the Common Core Requirement for category C, Life and Physical Sciences.

## **Learning Objectives:**

The objectives and goals of this course include:

- Describe the key components of the scientific method
- Describe and identify rocks and minerals based on detailed observations
- Relate geologic processes and the distribution of rocks, minerals.

## **Required textbook / materials:**

*Laboratory Manual in Physical Geology,*

By AGI American Geological Institute, NAGT - National Association of Geoscience Teachers, Vincent Cronin, Dennis G. Tasa, Pearson, 11/e, 2018 ISBN-13: 978-0-13-444660-8

Please make sure that you have the following items on hand: a pen, No. 2 pencil(s), eraser, calculator, metric ruler, and colored pencils. All other lab materials will be supplied by your instructor.

### **Course evaluation/grading:**

**Attendance- 10%**

**Quiz- 20%**

**Assignments- 10%**

**Mineral Exam- 20%**

**Rock Exam- 20%**

**Final Exam- 20%**

While the exams are technically not cumulative, material covered in the latter part of the course is dependent on the material from the earlier part of the course. Do NOT miss an exam. Make-up exams will NOT be given except under the most extraordinary circumstances such as documented illness, documented death in the family, documented alien abduction, etc. Make up exams will be given at a mutually convenient time and while they will cover the same information as the original exam, the questions and/or practical materials will be different.

**Participation** is a very important part of your final course grade. It can include anything from asking questions and participating in class discussions during the lab, via email, before, and/or after class session.

A final grade of IN (incomplete) is not normally given in this course except, again, under the most extraordinary and documented circumstances. You must contact me within 48 hours of the scheduled day/time of the final exam and complete a Contract to Resolve an Incomplete Grade. Otherwise, I will average your laboratory, exam, and attendance and participation grades and record what you have earned. To qualify for Credit/No Credit you must have completed all eight laboratory exercises, taken the three exams, and have satisfactory attendance and participation. Credit/No Credit forms will be accepted up to 15 minutes prior to the start time for the third exam. I will not accept a Credit/No Credit slip after the final exam is distributed. The Hunter College grading system will be used in this class and can be viewed in the latest undergraduate catalog available online at <http://catalog.hunter.cuny.edu/>.

As per CUNY, an Unofficial Withdraw (WU) is assigned to students who attended a minimum of one class and subsequently stopped attending. It is important to understand the definition of a WU and the difference between this grade and an F grade. The conditions for assigning the WU grade include:

1. A student's enrollment has been verified by the course instructor, and
2. The student has severed all ties with the course at any time before the final exam week and, consequently, has failed to complete enough course work -- as specified in the course syllabus -- to earn a letter grade, and
3. The student has not officially withdrawn from the course by completing the process for a W grade, or made arrangements to receive an IN

### **Laboratory Preparation:**

I expect you to have read the laboratory exercise listed for each class prior to the beginning of that class period. Laboratory exercises are complex, and if you do not read them before class you will have difficulty turning them in on time.

**Laboratory assignment submission:**

Lab assignments and exams will be submitted in word/pdf document via Blackboard.

## Tentative Syllabus for Fall 2021

<b>Dates</b>	<b>Topics</b>
<b>8/26/2021</b>	Introduction to GEOL101 and syllabus
<b>8/30/2021</b>	Lab-1 Minerals-Properties, Uses and Identification
<b>9/2/2021</b>	Lab-2 Minerals-Properties, Uses and Identification
<b>9/6/2021</b>	No Classes
<b>9/9/2021</b>	Review of Minerals
<b>9/13/2021</b>	Lab-3 Mineral Exam
<b>9/16/2021</b>	No Classes
<b>9/20/2021</b>	Lab-4 Rock Forming Processes and Rock Cycle
<b>9/23/2021</b>	Lab-5 Review of Rock Forming Processes and Rock Cycle
<b>9/27/2021</b>	Lab-6 Igneous Rocks and Processes
<b>9/30/2021</b>	Lab-7 Igneous Rocks and Processes
<b>10/4/2021</b>	Lab-8 Review of Igneous Rocks
<b>10/7/2021</b>	Lab-9 Sedimentary Processes Rocks and Environments
<b>10/11/2021</b>	No Classes
<b>10/14/2021</b>	Lab-10 Sedimentary Processes Rocks and Environments
<b>10/18/2021</b>	Lab-11 Review of Sedimentary Rocks
<b>10/21/2021</b>	Lab-12 Metamorphic Rocks, Processes. and Resources
<b>10/25/2021</b>	Lab-13 Metamorphic Rocks, Processes, and Resources
<b>10/28/2021</b>	Lab-14 Review of Metamorphic Rocks
<b>11/1/2021</b>	Rock Exam
<b>11/4/2021</b>	Lab-15 Dating of Rocks, Fossils and Geologic Events
<b>11/8/2021</b>	Lab-16 Dating of Rocks, Fossils and Geologic Events
<b>11/11/2021</b>	Lab-17 Review of Dating of Rocks, Fossils and Geologic Events
<b>11/15/2021</b>	Lab-18 Stream Processes, Geomorphology, and Hazards
<b>11/18/2021</b>	Lab-19 Stream Processes, Geomorphology, and Hazards
<b>11/22/2021</b>	Lab-20 Review of Stream Processes, Geomorphology, and Hazards
<b>11/25/2021</b>	No Classes
<b>11/29/2021</b>	Lab-21 Glaciers and the Dynamic Cryosphere
<b>12/2/2021</b>	Lab-22 Glaciers and the Dynamic Cryosphere
<b>12/6/2021</b>	Lab-23 Review of Glaciers and the Dynamic Cryosphere
<b>12/9/2021</b>	Review for Final Exam
<b>12/13/2021</b>	Final Exam

## **Academic Integrity:**

Hunter College statement on Academic Integrity: Hunter College regards acts of academic dishonesty (e.g., plagiarism, cheating on examinations, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The College is committed to enforcing CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures. Plagiarism, dishonesty, or cheating in any portion of the work required for this course will be punished to the full extent allowed according to Hunter College regulations.

**ADA Policy:** In compliance with the American Disability Act of 1990 (ADA) and with Section 504 of the Rehabilitation Act of 1973, Hunter College is committed to ensuring educational parity and accommodations for all students with documented disabilities and/or medical conditions. It is recommended that all students with documented disabilities (Emotional, Medical, Physical, and/or Learning) consult the Office of AccessABILITY, located in Room E1214B, to secure necessary academic accommodations. For further information and assistance, please call: (212)772-4857 or (212)650-3230.

## **Hunter College Policy on Sexual Misconduct**

In compliance with the CUNY Policy on Sexual Misconduct, Hunter College affirms the prohibition of any sexual misconduct, which includes sexual violence, sexual harassment, and gender-based harassment retaliation against students, employees, or visitors, as well as certain intimate relationship. Students who have experienced any form of sexual violence on or off campus (including CUNY-sponsored trips and events) are entitled to the rights outlined in the Bill of Rights for Hunter College.

- a. Sexual Violence: Students are strongly encouraged to immediately report the incident by calling 911, contacting NYPD Special Victims Division Hotline (646-610-7272) or their local police precinct, on contacting the College's Public Safety Office (212-772-4444)
- b. All Other Forms of Sexual Misconduct: Students are also encouraged to contact the College's Title IX Campus Coordinator, Dean John Rose (jtrose@hunter.cuny.edu or 212-650-3262) or Colleen Barry (colleen.barry@hunter.cuny.edu or 212-772-4534) and seek complimentary services through the Counseling and Wellness Services Office, Hunter East 1123.

CUNY Policy on Sexual Misconduct Link:

<http://www.cuny.edu/about/administration/offices/la/Policy-on-Sexual-Misconduct-12-1-14-withlinks.pdf>