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2022

Syllabus GEO101

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Dynamic Earth (undergraduate course): **GEO 101-81** (lecture)
Earth Processes (graduate course): **GEO 501-81** (lecture)

Location: **Online, via Bb Collaborate Ultra**

Day/Time: **Tuesdays** 11:00 a.m. - 1:40 p.m.

Teacher: Dr. Yuri Gorokhovich; yuri.gorokhovich@lehman.cuny.edu; 718-960-1981

Office Hours: by appointment, see contact info above

Textbook (free): <https://pressbooks.cuny.edu/gorokhovich/>

Smartwork5 (need for homework assignments and tests): you have to purchase an access to this tool for \$30. This is the only expense for this course!

See on the BlackBoard (in the section Course Materials) a document “Registering for Smartwork5” with instructions.

NOTE: every Tuesday we have a deadline at 11 a.m. to deliver homework and After Homework assignments that you do at home. In class we will have discussion of your After Homework assignment and you will be able to check your knowledge during class discussions. All answers will be discussed in class at that time. Because of this, **IF YOU MISSED A HOMEWORK OR ASSIGNMENT DUE TO THE VARIOUS REASONS (NO INTERNET CONNECTION, BROWSER FROZE, BROKEN LAPTOP, ETC.) EXCEPT HEALTH REASONS, I AM NOT GOING TO RESET IT FOR YOU TO TAKE IT AGAIN.**

Class time will be spent on discussions and coverage of new material. Therefore, see syllabus for deadlines and make sure you have all resources you need (time, location, good internet connection, reliable PC or laptop) to do homework and assignments. Do it at least few days before the deadline. It is also advisable to review class material before the lecture to present questions to professor.

Homework (weekly deadlines, see below in the table): will be available from **Smart Works Assignments** section on the BlackBoard (see under Class Materials); **timing is unlimited; many attempts are accepted;** deadline is strict! It is 11 a.m. every Tue (see syllabus below for the schedule)

After Homework Assignments (weekly deadlines, see below in the table): will be available from **Smart Works Assignments** section on the BlackBoard (see under Class Materials); take it after you finished your homework assignment; **only two attempts are accepted, time is limited.** Start answering and DO NOT miss questions and go back to answer them! System does not allow this and you can get stuck.

Tests (four): will be available from **Smart Works Assignments** section on the BlackBoard (see under Class Materials); prepare yourself using Key Terms (see section Class Materials); includes approx. 50 questions and offered online with a limited period (60 - 80 min) for completion. **Only two attempts are accepted and time is limited.** Test material includes only material from previous lectures since the last test. Start answering and DO NOT miss questions and go back to answer them! System does not allow this and you can get stuck.

Attendance: will be recorded every class, this is a compulsory element. Each full attendance is 1.0 per class. For example, if we have 14 classes, your 100% attendance should be 14.

Course Calendar and deadlines (each Tue, 11 a.m.):

Date	Lecture Topic
Feb 1	Introduction to class, logistics; Science of Geology: why it matters? Homework 1 and After Homework 1 posted
Feb 8	NO CLASS! College follows Friday schedule
Feb 15	Deadline for the Homework 1 and After Homework Problems 1
	Science of Geology: discussion of problems; lecture on Earth History. Homework 2 and After Homework 2 posted
Feb 22	Deadline for the Homework 2 and After Homework Problems 2
	Earth History: discussion of problems; Lecture on Geologic Time Homework 3 and After Homework 3 posted
March 1	Deadline for the Homework 3 and After Homework Problems 3
	TEST 1 (posted online, deadline is March 1, 11 a.m.) Geologic Time: discussion of problems; lecture on Rock Forming Minerals. Homework 4 and After Homework 4 posted
March 8	Deadline for the Homework 4 and After Homework Problems 4
	Rock Forming Minerals: discussion of problems; lecture on Rocks and Rock Cycle (I). Homework 5 and After Homework 5 posted
March 15	Deadline for the Homework 5 and After Homework Problems 5

	Rocks and Rock Cycle (I): discussion of problems; lecture on Rocks and Rock Cycle (II). Homework 6 and After Homework 6 posted
March 22	Deadline for the Homework 6 and After Homework Problems 6
	Rocks and Rock Cycle (II): discussion of problems; lecture on Plate tectonics. Homework 7 and After Homework 7 posted
March 29	Deadline for the Homework 7 and After Homework Problems 7
	TEST 2 (posted online, deadline is March 30, 11 a.m.) Plate Tectonics: discussion of problems; lecture on Earth Interior Homework 8 and After Homework 8 posted
April 5	Deadline for the Homework 8 and After Homework Problems 8
	Earth Interior: discussion of problems; lecture on Crustal Deformations Homework 9 and After Homework 9 posted
April 12	Deadline for the Homework 9 and After Homework Problems 9
	Crustal Deformations: discussion of problems; lecture on Earthquakes. Homework 10 and After Homework 10 posted
April 19	NO CLASS! Spring Recess
April 26	Deadline for the Homework 10 and After Homework Problems 10
	Earthquakes: discussion of problems; lecture on Volcanoes Homework 11 and After Homework 11 posted
May 3	Deadline for the Homework 11 and After Homework Problems 11
	TEST 3 (posted online, deadline is May 4, 11 a.m.) Volcanoes: discussion of problems; lecture on Mass Wasting (Landslides) Homework 12 and After Homework 12 posted
May 10	Deadline for the Homework 12 and After Homework Problems 12
	Landslides: discussion of problems; lecture on Hydrology: surface water. Homework 13 and After Homework 13 posted
May 17	Deadline for the Homework 13 and After Homework Problems 13
	Hydrology: surface water: discussion of problems; conclusion of the course. Lecture on Climate Change/Global Warming
May 18	TEST 4 (FINAL) (posted online, deadline is May 23)

Final Grade (multiple assignments will be averaged):

Homework (self-quizzes, open book):	15%
After homework problems:	20%
Tests (four tests, during the semester, closed book):	50%
Participation/Attendance:	15%

In addition, I leave myself a right to add or subtract 5-10 subjective points to/from the final grade, depending on your performance (class participation, attendance, distraction, etc.).

Final project (ONLY FOR GRADUATE STUDENTS, GEO501): start working at the beginning of the semester and deliver by the last lecture. Select a product of interest (cement, toothpaste, car tire, perfume, etc.) and demonstrate its relationship (including production process and use of technology and various materials) with a certain geologic resource that it is based on. Need to add to your explanation relevant information from at least three topics covered in class (e.g. Plate Tectonics, Minerals, Structural Deformations, etc.). For example, asbestos (fireproof product) contains mineral chrysotile; it is a specific mineral with origin in metamorphism, associated with plate tectonics. In this case, you would describe specifics related to mineral structure and composition, specific kind of metamorphism and plate tectonics. You need to add information on geographic location of the resources and use it in your explanation.

How to study: read content on the web site; take notes, write your own short summaries and pay attention to new terminology; see posted (on BlackBoard) key terms for each test; read your own notes few times, make sure you understand key terms, new terminology and definitions.

To prepare for tests: review your homework assignments and after homework tests; review key terms: write each key term (provided in course materials on BlackBoard) and its definition + one-two examples. Go through the homework and review questions material. Use regular notepad; when you write with your hand you engage more memories (motoric and cognitive). Read your notebook content at least three times before the test. You can also show me your notes before the test.