

GEOG/GEOL 106

Introduction to Natural Hazards and Disasters (5 credits Natural Science)

Welcome to Geography/Geology 106. This is a five-credit, natural science course that fulfills a Science distribution requirement for the Associate in Arts and Sciences (AAS) Degree at Bellevue College. There are no prerequisites for this class.

The course satisfies **General Education Requirements** in the following areas:

The Nature of Science: Rating 3

Science and the Natural World: Rating 3

The course transfers as natural science credit. The class can be taken as Geography OR Geology credit to satisfy the College's distribution requirement in Sciences.

Course Description/Objectives:

This is a survey course designed to introduce students to earth and atmospheric potential hazards as reflected or evidenced by actual catastrophes or disasters. The course will strive to elevate student awareness regarding dangerous interactions between earth processes and humans, as well as the interrelationships among potential disasters. In doing so, students may be able to make more informed/educated decisions such as determining the best site location for a future home purchase. Throughout the text Case Studies are used to facilitate in understanding the complexities of environmental policies, societal behaviors, and governmental responsibilities. Other than the textbook visuals, a variety of images from numerous sources will be used to enhance the delivery of course information.

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Required Text:

Natural Hazards and Disasters: 2nd edition, Hyndman and Hyndman, 2009. Brooks/ Cole CENGAGE Learning

Format:

The coursework is divided into **Seven (7) Course Modules**.

Course Modules:

The modules are designed to follow the general format of chapter content in your textbook. The textbook, however, is best viewed as a support tool for your studies as there are additional resources - *Class Notes*, *Articles and Images*, and *Chapter Practice Quizzes* - that will need to be carefully studied to provide a foundation for this class.

All modules begin with *Class Notes*. These notes will aid you to better understand the topics covered in the particular module. Often, I will provide my own personal images and experiences. **You should begin each**

module by reading the introductory *Class Notes*.

The next step is to read through the *Textbook Reading Assignment Section*. The instructions identify which chapters of the textbook you need to read to enable you to answer questions in the Chapter Practice Quizzes, Module Quizzes and Final.

Each Module has an *Articles and Images Section*. This is your next step. Carefully read through these articles and view the images. Questions will be taken from this section to be included in the Chapter Practice Quizzes, and Module Quizzes.

Having carefully read through and completed the *Class Notes*, *Textbook Readings*, and *Articles and Images Section*, you will then be prepared to attempt the respective *Chapter Practice Quiz*. Having successfully completed the Chapter Practice Quiz (quizzes) you are now ready to take the final step by taking the appropriate Module Quiz. Taking the Chapter Practice Quizzes will help prepare you for the respective module quiz. **The majority** of the module quiz questions are **directly** based on the *Textbook Readings*. In addition, a variety of questions will be taken from the Class Notes and from the Articles and Images. **All** quizzes are open book/note. **All** the online quizzes are multiple choice/true false formats. Be aware that the module quizzes are time limited that is you will have a limited time to answer the module questions. You can only make **ONE** attempt and are allocated 90 minutes to complete the quiz.

The Seven (7) Modules and textbook readings are sequenced in the following order:

- Module 1** Chapter 1: Natural Hazards and Disasters
Chapter 2: Plate Tectonics and Physical Hazards
- Module 2** Chapter 3: Earthquakes and Their Causes
- Module 3** Chapter 4: Earthquake Prediction and Mitigation
Chapter 5: Tsunami
- Module 4** Chapter 6: Volcanoes: Tectonic Environments and Eruptions
Chapter 7: Volcanoes Hazards and Mitigation
- Module 5** Chapter 8: Landslides and Other Downslope Movements
- Module 6** Chapter 11: Streams and Flood Processes
Chapter 12: Floods and Human Interactions
- Module 7** Chapter 14: Hurricanes and Nor'easters
Chapter 15: Thunderstorms and Tornadoes

All seven (7) modules have an open book/open note, **multiple-choice**, and **true/false** online quiz. The seventh module quiz is the Final. The Final is not comprehensive. The Final must be taken by everyone.

Course Grading:

Total possible points including the Final is 300. If you complete all of the Chapter Practice Quizzes by the closing date, then ten (10) Extra Credit points will be added to your total accumulated points before determining your quarter grade. I have included the following table so that you can evaluate your grade at the end of the quarter.

Grading Scale:

A	4.0	279-300
A-	3.7	270-278
B+	3.3	258-269
B	3.0	246-257
B-	2.7	240-245
C+	2.3	228-239
C	2.0	218-227
C-	1.7	210-217
D+	1.3	195-209
D	1.0	165-194
F	0.0	< 165

Participation:

The student is responsible for:

1. the technical aspects of your computer/email/printer etc.
Please refer to the Bellevue College Distance Education website for the Vista Tutorial and for minimum hardware requirements.
The Distance Education Office telephone number is listed above.
2. reading the specified materials.
3. taking part in email discussions. Contacting me/fellow students can be helpful.
4. keeping comprehensive notes/diagrams/maps relevant to course topics.
5. timely completions of the module quizzes.
You should not leave quizzes to the last minute in case you have a technical problem this is a very important consideration.
6. reviewing the Bellevue College academic calendar
posted at <http://bellevuecollege.edu/distance> for all details regarding registration and withdrawal policy and procedures and distribution of final grades.
7. reading the Social Science Division's policy statement.
8. if special needs are necessary contacting Disability Support Services
at (425) 564-2498

PROCEDURES AND GUIDELINES OF THE SOCIAL SCIENCE DIVISION
Revised Fall 2007

Cheating, Stealing and Plagiarizing*

Cheating, stealing and plagiarizing (using the ideas or words of another as one's own without crediting the source) and inappropriate/disruptive classroom behavior are violations of the Student Code of Conduct at Bellevue College. Examples of unacceptable behavior include, but are not limited to: talking out of turn, arriving late or leaving early without a valid reason, allowing cell phones/pagers to ring, and inappropriate behavior toward the instructor or classmates. The instructor can refer any violation of the Student Code of Conduct to the Dean of Student Services for possible probation or suspension from Bellevue College. Specific student rights, responsibilities and appeal procedures are listed in the Student Code of Conduct, available in the office of the Dean of Student Services.

Incomplete

If a student fails to complete all the required work for a course, an instructor may assign the grade of Incomplete ("I"). The student must complete the coursework by the end of the next quarter, or receive the assigned letter grade (usually an "F").

F Grade

Students who fail a course will receive a letter grade of "F".

Final Examination Schedule

The Social Science Division will adhere to the final examination schedule as stated in the BC Schedule. Final examinations will be held at the end of each quarter at fixed times. Instructors will not give examinations in advance of the regular schedule. A student who is absent from any examination held at any time during the quarter may forfeit the right to make up the examination. If, for illness or some other circumstance beyond the student's control, the student is unable to be present at any scheduled examination and has contacted the instructor on a timely basis, the student may be permitted to take such examination at a time designated by the instructor.

Withdrawal From Class

College policy states that students must formally withdraw from a class by the end of the seventh week of the quarter (Registration Office, B125). If a student has not withdrawn by that date, an appropriate letter grade will be assigned for the course.

Hardship Withdrawal

Instructors may assign the grade of "HW" (hardship withdrawal) at their discretion in the event that a student cannot complete the coursework due to extreme and exceptional circumstances. Students may also contact the Enrollment Services office BEFORE grades are assigned in cases of hardship.

Students Who Require Disability Accommodations:

Students with disabilities who have accommodation needs are encouraged to meet with the Disability Support Services (DSS) office located in B132 (telephone 425.564.2498 or TTY 425.564.4110), to establish their eligibility for accommodation. The DSS office will provide each eligible student with an accommodation letter. Students who require accommodation in class should review the DSS accommodation letter with each instructor during the first week of the quarter.

Students with mobility challenges who may need assistance in case of an emergency situation or evacuation should register with Disability Support Services, and review those needs with the instructor as well.

Distribution of Grades

Grades will not be posted in the Social Science Division or in faculty offices, and secretaries will not give out grades. Students should access their grades through the BC Web site.

Return of Papers and Tests

Paper and/or Scantron score sheet returns will be arranged in the following ways ONLY: by mail, if student supplies the instructor with stamped, self-addressed envelope (with appropriate postage); or by the instructor designating a time and place whereby the student may retrieve his/her papers. Unclaimed papers and/or Scantron score sheets must be kept by the instructor for a minimum of sixty (60) instructional days following the end of the quarter.

**If you are accused of cheating, stealing exams and/or plagiarism, there is a Bellevue College Student Discipline and Appeals Procedure (the right to due process), which you may pursue. Contact the office of Division Chair (A251), the Dean of Student Services (B231A) or the Associated Student Body (C212) for information regarding the appeals process.*

