

## **GEOG106/GEOL 106 Introduction to Natural Hazards and Disasters (5 credits - Natural Science)**

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Classroom: **D273** - 1:30-2:20 Daily

Fall Quarter, 2014  
Phone: 425-564-2290  
Office Hours: 12:20-1:20

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

### **Course Description/Objectives:**

Geography/Geology 106 transfers as natural science survey course. Students may enroll in either **GEOGRAPHY 106** or **GEOLOGY 106** but **NOT BOTH**. The course is 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 course '**Case in Point**' examples are used to illustrate the various types of hazards, and record significant disasters. Also, they are useful to help understand the complexities of environmental policies, societal behaviors, and governmental responsibilities regarding hazards. A variety of relevant DVD's along with digital images, and slides will be used to enhance the delivery of information. Practice Quizzes for all sections will be distributed prior to each assessment.

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### **Required Text:**

**Natural Hazards and Disasters:** 4th edition, Hyndman and Hyndman, 2014. Brooks/  
Cole CENGAGE Learning  
Text can be rented from the College Bookstore for \$45.00.

**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, Handouts and DVD's*. In addition, the end of Chapter *Cases in Point* will become an important component beginning with Chapter Three.

Proceed through the *Textbook Reading Assignments*. The Course Outline below identifies which chapters of the textbook you need to read to enable you to answer questions on both the Practice Exams and Module Exams and Final.

Questions will be taken from all of the above sections (Class Notes etc.) to be included in the Practice Quizzes, Module Exams and Final. **Extra Credit** questions will be embedded in each exam including the Final.

To successfully complete the exams, it is imperative that you complete all of the *Chapter Practice Quizzes*. **All** of the module exam questions are **directly** based on the *In Class Notes, Text Readings, DVD's and Cases in Point*.

The Seven Modules are sequenced in the following order.

**MODULE 1: Chapter 1: Introduction to Natural Hazards and Disasters**  
**Chapter 2: Plate Tectonics and Physical Hazards**

**MODULE 2: Chapter 3: Earthquakes and Their Causes**  
**Chapter 4: Earthquake Predictions, Forecasts and Mitigation**

**MODULE 3: 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 12: Stream and Flood Processes**  
**Chapter 13: Floods and Human Interactions**

**MODULE 7: Chapter 10: Weather, Thunderstorms and Tornadoes**  
**Chapter 15: Hurricanes and Nor'easters**

Assessment format will be **multiple-choice, true and false, and matching**. The seventh and last module will be material that you study for the Final, Weather Thunderstorms and Tornadoes – Hurricanes and Nor'easters. There is no comprehensive Final.

### **Course Requirements and Policies:**

A minimum of **60%** is required to pass. **SIX** exams and a **Final** are scheduled.

The best **five** scores on the first six exams will be recorded. The lowest score of the first six exams will automatically be dropped. **The Final cannot be dropped.**

The Final is not comprehensive. The Final is scheduled for **Mon. Dec. 8**, at **1:30** terminating at **2:30**. **Final will be in Room D273. Finals are not given early. No exceptions! NO EXAM MAKEUPS. EVERYONE MUST TAKE FINAL!**

Last day to withdraw from class: **4:00PM - November 7, 2014 (in person)** or by **11:59 pm November 8, 2014, (online)**. **“W”** will be posted on transcript. Failure to withdraw by the above deadlines will result in an **“F”** posted on transcript.

This course transfers as natural science credit.

### **G R A D I N G**

<b><u>GRADE</u></b>	<b><u>GPA</u></b>	<b><u>PERCENTILE</u></b>
A	4.0	95-100
A-	3.7	90-95
B+	3.3	87
B	3.0	83-86
B-	2.7	80-82
C+	2.3	77-79
C	2.0	73-76
C-	1.7	70-72
D+	1.3	67-69
D	1.0	60-66
F	0.0	<60

**Smart Phones, electronic dictionaries, iPads, iWatches, and laptops cannot be used during assessments. Please turn off all communication devices before coming to class.**



## **PROCEDURES AND GUIDELINES OF THE SOCIAL SCIENCE DIVISION SP 2014**

### 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 Resource Centre (DRC) office located in B132 (telephone 425.564.2498 or TTY 425.564.4110), to establish their eligibility for accommodation. The DRC office will provide each eligible student with an accommodation letter. Students who require accommodation in class should review the DRC 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 Resource Centre, 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.

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*\*If you are accused of cheating, stealing exams and/or plagiarism, there is a Bellevue College Student Discipline*