

Hybrid GEOL/GEOG 106: Introduction to Natural Hazards & Disasters

5 credits - Bellevue College – Autumn 2014

Instructor: Gwyneth Jones (*Gwyn*)

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Class Meetings: Tuesdays, 11:30-1:20 in B-262

Office Hours: Online (or by appointment)

Canvas Site: <https://bc.instructure.com>

Backup Site: <http://scidiv.bellevuecollege.edu/gj>

Course Description

This course provides a general introduction to the interdisciplinary field of natural hazards and natural disasters. It is oriented toward non-science majors, but can also be a good starting point for those who may want to explore related academic and career opportunities. Primary focus is on earth and atmospheric hazards that appear rapidly, often without warning. Emphasis is placed on the interrelationships among hazards; the roles humans play in potential disasters; and how, through education, to minimize future problems.

Prerequisites

This course has no prerequisites.

Instructional Delivery

Our course section is in **hybrid mode**. There is one mandatory class meeting per week (Tuesdays 11:30-1:20, in B-262); the remainder of the course is delivered via Canvas. You will need to learn independently, and post work via Canvas (discussion boards, file uploads, etc). I will post course assignment instructions, official announcements, etc in Canvas (backup: <http://scidiv.bellevuecollege.edu/gj>).

If you are new to Canvas, or have struggled with technology in the past, I highly recommend that you: *Watch* the [Canvas Student Orientation videos](#) and *Register for and complete* a Canvas Online Workshop or a Canvas On-Campus Workshop.

- For Instructure help with Canvas: <http://help.instructure.com/home>
- For BC help with Canvas: <http://depts.bellevuecollege.edu/helpdesk/students/canvas/>
- For BC help with other tech issues: <http://depts.bellevuecollege.edu/helpdesk/students/>
- To contact the BC Distance Learning office: http://bellevuecollege.edu/distance/Canvas_classroom.asp

Required Texts/Materials

This course has been developed to reduce costs without compromising learning. New and used books are often available at a discount online, at used bookstores, and from former students. Our textbook is **Natural Hazards, 3rd edition, by Keller & DeVecchio** (ISBN: 9780321662644). Recently these were the prices of several options:

- From the BC Bookstore (<http://bcc.collegestoreonline.com>): Paperback: New \$93 / Used \$70
- From the publisher (<http://www.mypearsonstore.com>): Looseleaf: \$58 / E-book (instant access): 6 mo. \$53
- Kindle/Readers (<http://www.amazon.com>): Kindle (instant access): \$38 to own from Amazon.com
- Rent or buy, new or used, from Half.com, Chegg.com, Amazon, Powells, etc – Tell us what you find ☺ – It must be Natural Hazards, 3rd ed., by Keller & DeVecchio.
- I will try to put one or two library-use-only copies on reserve at the Bellevue College Library Media Center.

I have selected additional required readings from *free, online materials* (see readings lists for details); they will be posted in Canvas. You are welcome to supplement those with other credible reference materials of your choosing; I would be happy to put some on reserve or lend them directly.

Communicating with Your Instructor, Classmates, and College Staff

I respond to students in a timely manner, and expect the same in return. I expect students to check Canvas and their Bellevue College email account at least once a day, including weekends and holidays, and to ask *immediately* about any questions or concerns. ***It is up to you*** to resolve any technical issues with the assistance of the college and/or Canvas support staff, and to keep me informed of changes to your contact information or circumstances. NOTE: ***College policy requires*** that students use their Bellevue College student email account rather than a personal email account. Computers with email access are available on campus and at many public libraries.

- Most course information... Is posted in the applicable Canvas Module. *Please check there before asking a question.*
- I will announce most news... Via Canvas Announcements or BC email. *I dislike Canvas-Message and do not plan to use it. Please do not use it either.*
- To ask/discuss/answer a question... Post it to the Main discussion board. "Subscribe" to get updates and alerts. Interact with classmates. *It helps everyone learn!*
- For Canvas or technical issues... Contact BC's Canvas/technical help linked in the Modules. *I will focus on the course content (natural hazards).*
- To speak privately to me... Email me from your BC email account. *Please do this only if it is personal or confidential!*

Course Learning Objectives

By the end of the quarter, each student should be able to meet the Course Learning Objectives for this course.

Assessment of Student Learning

Assessment activities may include the following. The primary assessment activities are in **bold**:

- Book report
- Campus assessment project
- Case study assignment
- **Class discussions (online & in class sessions)**
- Concept map creation
- Critical reading activity
- Current-event research
- Diagram labelling
- Diagrams comparison activity
- Environmental impacts research
- Field trip activity
- Film evaluation
- Five-minute write
- **"Getting involved"**
- **"Go outside" activity**
- Hazard City assignment
- "How do you know what you know?" activity
- "Is this a good source?" activity
- Journal article evaluation
- **Journalling (on paper/online/via blogging)**
- Listserv activity
- Map reading activity
- Muddiest point
- Nature sketch
- Newspaper article evaluation
- Pros & cons list or paper
- **"Q&A" (summarize; write 4+ Qs; research 1 Q)**
- Quiz or exam question
- Role-play activity
- **Service-learning activity**
- Think-pair-share
- Timeline activity
- Websites list compilation
- "You be the professor" activity

Course Grading Policy

We are all busy people, juggling multiple activities and roles. To be fairest to everyone, **no late work** will be accepted for credit. Therefore, please work well ahead of the listed deadlines. Course grades will be earned as follows:

Weekly journalling & class discussions	30%	<i>Your lowest Journal score will be <u>dropped</u> at the end of the quarter.</i>
Weekly Q&A assignment & class discussions	30%	<i>Your lowest Q&A score will be <u>dropped</u> at the end of the quarter.</i>
Quarter-long service project	20%	
Current-event presentation	10%	
<u>Other assignments & discretionary</u>	<u>10%</u>	
Total	100%	95-100%+ = A (4.0); 90-94% = A- (3.7); 87-89% = B+ (3.3); 83-86% = B (3.0); 80-82% = B- (2.7); 77-79% = C+ (2.3); 73-76% = C (2.0); 70-72% = C- (1.7); 68-69% = D+ (1.3); 65-67% = D (1.0); 0-64% = F (0.0).

Per Bellevue College policy: Hardship withdrawals ("HW") are only for documented cases of extenuating circumstances occurring after the "W" deadline. Incompletes ("I") are only for unforeseen situations beyond the student's control occurring after the "W" deadline.

Other Course Policies and Resources

- **Mandatory Class Session Attendance:** This is a hybrid-mode course section. I expect everyone to attend class each week and fully participate in all of the class session activities. Missing class also greatly impacts your course grade, as you are not contributing to nor learning from the in-class discussions and other activities. Your course grade *will* become an F (0.0) if you miss more than 2 class sessions, barring an immediately documented emergency. (Note: Fully online sections are offered for students who prefer or require no on-campus requirements.)
- **Affirmation of Inclusion:** Bellevue College is committed to maintaining an environment in which every member of the campus community feels welcome to participate in the life of the college, free from harassment and discrimination. We value our different backgrounds at Bellevue College, and students, faculty, staff members, and administrators are to treat one another with dignity and respect.
- **Students with Special Needs:** The Disability Resource Center (DRC) serves students with a wide array of learning challenges and disabilities. The law states that a student may present documentation anytime and the DRC must make a good faith effort to accommodate. Please contact us as soon as possible if you have a disability or learning challenge for which you have documentation; or if you have seen someone for treatment and you feel you may need accommodations in order to be successful in college; or if you require assistance in case of an emergency situation, such as a fire, earthquake, etc. The DRC office is in Room B-132 at the college's main campus (telephone 425-564-2498 or TTY 425-564-4110; <http://www.bellevuecollege.edu/drc>).
- **Email Account and Computing Facilities:** *By college policy, you must use your student account when communicating via email.* The college offers a wide variety of computer and learning labs to enhance learning and student success. Find current campus locations for all student labs by visiting the [Computing Services website](#). In addition, please have at least two off-campus locations from which you can access email and work online. Be sure the **subject line** of all non-Canvas emails includes the following information. If it doesn't, your message will probably be spam-filtered; I will not receive it!

HybridG106 & WHAT THE EMAIL IS ABOUT! & YOUR INITIALS

- **File Names and File Formats:** I cannot keep track of files unless I know who is sending me what! Therefore...

- All of your course files – posted within Canvas or otherwise – must be named:

LASTNAME-Firstname-WhatTheFileIs-HybridG106.doc (or .pdf)

- When I open the file, what I read needs to start with a simple one-line header:

Your Name & What the Assignment Is & Hybrid GEOL/GEOG 106

- Note: Canvas and/or I *cannot* read Publisher (.pub), Open Document (.odt), or Word 2008 (.docx) files. If you use them, you must convert them to .doc or .pdf before uploading them.
- **"Netiquette" (Courtesy):** You are expected to behave in a mature, professional manner. Even if you're thick-skinned, many of your classmates are not and they shouldn't have to be — nor should I. I will take strong disciplinary action for improper behavior (rude, mean, offensive, discriminatory, dishonest, etc); violations will be reported to the Dean of Students.
- **Student Eco-Conduct:** Students are expected to make decisions that have the smallest environmental impact while maximizing student learning. This includes:

Think before you print...

- Refrain from printing lecture slides – Most figures can be downloaded electronically or are in course materials that you already have in your possession. Turn in papers electronically when assignment instructions allow. Print double-sided or use the back of paper that only has writing on one side. Single-space your work, unless otherwise instructed. Select font and size for paper savings and readability. Adjust pages with just one or two lines of text. Use narrow margins – Most printers allow 0.5" or 0.65" margins all around. Reuse any paper as scratch paper; recycle it when it cannot be used any more. Buy recycled paper with a high post-consumer-waste content, and soy-based inks.

Recycle...

- Recycle all paper, bottles, and cans into their proper containers – There are bins throughout campus. Compost food and other materials in the cafeteria (C building) or science building (S building).

Save energy...

- Turn off the lights in empty classrooms. Do not study alone in classrooms or without permission. Adjust your computer settings so the monitor and CPU will sleep after 10 minutes of inactivity. Unplug personal electronic devices when not in use. Ride-share, carpool, bus it, bike, or walk.
- **Science Division Policy on Cheating: *CHEATING IS STEALING*.** You, the student, are expected to conduct yourself with integrity. If you cheat*, or aid someone else in cheating, you violate a trust. If you cheat, the following actions will be taken:
 - You **will** receive a grade of “0” on the work (exam, quiz, lab, or other assignment), where the cheating occurred. This grade cannot be dropped.
 - A report of the incident **will** be sent to the Assistant Dean of Student Success. The Dean may file the report in your permanent record or take further disciplinary action such as suspension or expulsion from the college. If you feel you have been unfairly accused of cheating, you may appeal. (For a description of due process, see WAC 132H-120.)

*** Cheating includes, but is not limited to:** Providing or copying answers on any assignment; glancing at nearby assignments; swapping papers; stealing; plagiarizing; lying; use of electronic information storage or communication devices to store or share answers; and illicitly giving or receiving help on any assignment. **You must each do all of your own work, and cite all of your sources.** For more information, see the college Writing Lab or Dean.

- Some cheating and plagiarism is unintentional, but “**ignorance of the law is no defense**”. And, the college Science Division policy is clear (see above). Therefore, we require you to read and study “Avoiding Plagiarism, or How to Use Source Information Properly” at <http://www.bellevuecollege.edu/writinglab/plagiarism.html> and [PRINT OUT the PDF version](#). It applies to all courses, so keep it handy for your reference. If you are at all unclear on what cheating entails (e.g., plagiarism, group work), please ask far enough in advance to allow a reply.

Want to earn more than 5 credits?: *Current Issues in Environmental Science Seminar* (ENVS 281; 1 credit) addresses a different environmental theme each quarter. It meets approximately every other Monday. Contact Kent Short if you would like additional information (kent.short@bellevuecollege.edu, 425-564-2188, S240-G). *Also offered winter (ENVS 282) & spring (ENVS 283).*

Want to get involved & have fun?: Bellevue College has a wide variety of clubs and programs (<http://bellevuecollege.edu/stupro/club/default.asp>), and students are encouraged to start their own! Groups include: *Earth & Space Sciences (ESS) Club; Sustainability & Science Association (SSA); Bite Me (Garden Club); Relief for Disaster Club; Peer to Peer Volunteering & Tiered Mentoring Program; Service Learning Program; etc*

GEOL/GEOG 106 TEXTBOOK

Natural Hazards: Earth’s Processes as Hazards, Disasters, and Catastrophes – 3rd edition – by Keller & DeVecchio

Chapter 1 Introduction to Natural Hazards
 Chapter 2 Internal Structure of Earth & Plate Tectonics
 Chapter 3 Earthquakes
 Chapter 4 Tsunamis
 Chapter 5 Volcanoes
 Chapter 6 Flooding
 Chapter 7 Mass Wasting

Chapter 8 Subsidence & Soils
 Chapter 9 Atmosphere & Severe Weather
 Chapter 10..... Hurricanes & Extratropical Cyclones
 Chapter 11..... Coastal Hazards
 Chapter 12 ... Climate & Climate Change
 Chapter 13 ... Wildfires
 Chapter 14 ... Impacts & Extinctions

Appendices:

A Minerals
 B Rocks
 C Maps & Related Topics
 D How Geologists Determine Geologic Time
References, Glossary, Index

HYBRID Geology/Geography 106 Calendar – Autumn 2014

The schedule is tentative; contents and dates may be shifted to keep pace with your learning.

Week #	Dates (Sun-Sat)	Topic of the Week: Course Module	Textbook Readings	Due by MONDAY p.m.	In Class (Tuesday 11:30-1:20)	Due by FRIDAY p.m.
1	Sep 21 – Sep 27	"0": Getting Started	☺ WELCOME! ☺ ★ Course starts MONDAY September 22 ▪ Log in to Canvas & peruse our site right away (Monday!) ▪ Get your hands on our textbook (paper / e-book) now! ▪ First assignments are due by Friday – Aim for Wednesday! ▪ Watch Canvas Orientation. Canvas workshops are optional.		★ Introductions ★ Syllabus & Calendar (<i>bring printout & questions to class!</i>) ★ Current Event Scheduling ★ Discussion/Lecture/Activity	★ Biography ★ Journal 0 ★ Sign up for alerts ★ Read and start outlining textbook Chapter 1
2	Sep 28 – Oct 4	A: Introduction to Natural Hazards	Chapter 1, Appendices A, B, C, D	★ Q&A 1a (<i>covers Ch.1</i>) ★ Journal 1a: Geologic Hazards Around the World	★ Current Events ★ Discussion/Lecture/Activity	★ Q&A 1b ★ Journal 1b ★ Field Trip/Project Waiver
3	Oct 5 – Oct 11	B: Planet Earth & Plate Tectonics	Chapter 2	★ Q&A 2a ★ Journal 2a: Preparedness Planning	★ Current Events ★ Discussion/Lecture/Activity	★ Service Project Proposal ★ Q&A 2b ★ Journal 2b
4	Oct 12 – Oct 18	C: Earthquakes	Chapter 3	★ Q&A 3a ★ Journal 3a: Earthquake Case Studies	★ Current Events ★ Discussion/Lecture/Activity	★ Scientific Method ★ Q&A 3b ★ Journal 3b
5	Oct 19 – Oct 25	D: Tsunamis	Chapter 4	★ Q&A 4a ★ Journal 4a: Orphan Tsunami of 1700	★ (Current Events) ★ (Discussion/Lecture/Activity)	★ Q&A 4b ★ Journal 4b
6	Oct 26 – Nov 1	E: Volcanoes	Chapter 5	★ Q&A 5a ★ Journal 5a: Mt Rainier Role Play	★ <i>Role Play</i>	★ Q&A 5b ★ Journal 5b
7	Nov 2 – Nov 8	F: Floods	Chapter 6	★ Q&A 6a ★ Journal 6a: Water, Water Everywhere?	★ Current Events ★ Discussion/Lecture/Activity	★ Service Project Update ★ Q&A 6b ★ Journal 6b
8	Nov 9 – Nov 15	G: Mass Wasting & Coastal Hazards	Chapters 7 & 11 (& 8)	★ Q&A 7a ★ Journal 7a: Mass Wasting in Our Lives ★ Pre-AIT Climate Surveys	★ Current Events ★ Discussion/Lecture/Activity	★ Q&A 7b ★ Journal 7b
9	Nov 16 – Nov 22	H: Weather, Climate & Climate Change	Chapters 9 & 10 & 12 & 13	★ Q&A 8a—Week 1 (Ch.9&10) ★ Journal 8a: An Inconvenient Truth (<i>pre-film questions</i>)	★ Discussion/Activity/(Film) ★ (Current Events)	★ Q&A 8b—Week 1 ★ Journal 8b (<i>watch film</i>)
10	Nov 23 – Nov 29 (Thanksgiving)		▪ Week 1: Ch.9&10 ▪ Week 2: Ch.12&13	★ Q&A 8a—Week 2 (Ch.12&13) ★ Journal 8c (<i>reflection</i>)	★ Current Events ★ Discussion/Lecture/Activity	★ Q&A 8b—Week 2 ★ Journal 8d (<i>response</i>)
11	Nov 30 – Dec 6	I: Course Synthesis	—	★ Journal 10: Course Synthesis (<i>Note: This journal grade cannot be dropped</i>) ★ Service Project Completion	★ Synthesis Discussion & Potluck ★ (Current Events)	★ <i>You're done! Happy Winter Break! ☺</i>

Your **Current Event Presentation** date is: _____ and the topic is: _____

Your **Service Learning Project** topic is: _____