ERTH 111 Introduction to Volcanoes Spring 2021

I. Instructor:

Dr. Terry Naumann
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Office location: St George, Utah (Mountain Time Zone)

This is an online course that requires students to be fairly skilled in the use of the Internet. We will be communicating using UH's course software Laulima, through which you will access and submit all course materials. Through Laulima you will also watch linked videos on YouTube and other outlets, along with the instructor's video lecture recordings.

For more information on how this course will work check out the "Start Here" module in the Laulima course shell.

II. Text: *Volcanoes* by Peter Francis and Clive Oppenheimer

The text is OPTIONAL. Believe it or not there is no single text that covers all the topics that are required for a course like this. Some of the more basic geology material in the early lectures is more closely aligned with a normal Physical Geology textbook while this book is the best option for the material in later chapters as well as excellent eruption case studies. You should buy, rent, borrow or share a copy of this book if you are interested in learning more about volcanoes. I may also scan and upload some other sources from time to time to supplement if needed.

III. Office Hours:

If you have questions or concerns just email me and I always respond as quickly as I can.

I will "officially" be able to answer emails 5x/week: Monday through Friday until 7 pm (HI time). If you have emailed me and haven't received an immediate reply, please be patient before you try me again. I will respond, I promise! Normally I may be able to get back to you very quickly.

IV. Course Technologies and Equipment:

This course uses Laulima. If you are new to Laulima, you can follow this link to the Laulima Support for Student help page. During the semester, if technology questions arise, call the Information Technology Services (ITS) at (808) 956-8853 or Toll Free (800)-558-2669.

You can also click on the "Help" button in the Laulima course shell and it will connect you to helpful resources to get you through just about any issue.

Since we will only communicate using Laulima and email you will need to use your UH student email. I may be able to respond to your personal email but when I send you a message it will be to your UH account.

V. Course Description:

Examines the origin and classification of volcanoes, volcanic eruptions, and volcanic deposits. Includes the history of volcanic studies, myths, and legends. Emphasis on volcanic eruptions, eruptive products, volcanic hazards and risk assessment.

VI. Course Objectives

To present you with a well-rounded introduction of how the volcanoes work and how their processes shape the landscape and impact your lives. This course satisfies the General Education Requirement (GER) so by design it is meant to cover a wide range of applicable topics to help make you a well-rounded citizen of planet Earth! At the completion of the course you will have a general understanding of volcanic processes including the description and classification of volcanoes, volcanic eruptions, and volcanic deposits.

The instructional goals for this class are:

1) Present the introductory concepts important in the study of volcanoes and guide students to an understanding of the basic principles and the scientific applications of the study of volcanoes.

2) Introduce students to the origin and eruptive behavior of volcanoes.

VII. Student Learning Outcomes

The students will:

1) Demonstrate an understanding of the history of scientific thought pertaining to the origin of volcanoes.

2) Demonstrate an understanding of the different theories of the origin of volcanoes.

3) Discover the ways magmas are formed within the earth and appreciate the wide diversity of rock types that are erupted.

4) Analyze the relationships between plate tectonics and volcano formation.

5) Learn the variety of eruption styles and understand the volcanic products that result from effusive and explosive eruptions.

6) Examine the factors that control the different eruption styles.

7) Learn the different volcano types and analyze the factors that promote each type.

8) Analyze what factors influence the growth of volcanoes.

10) Discover the number of people living near active volcanoes and detect why humans populate active volcanoes.

11) Learn the different types of volcanic hazards, the effects of these hazards on human populations, and discriminate which hazards pose the highest risk.

12) Learn the role that climate plays in influencing the effects of volcanic eruptions.

13) Learn the different methods used for monitoring active volcanoes.

14) Discriminate the difference between hazard and risk and know how volcanic risk assessment is determined.

VIII. Class participation:

Be sure to always read the Laulima Announcements to enhance your participation and stay current.

- **Students are expected to watch the presentations on Laulima, read the assigned readings, and complete all assignments on time.**
- Students are expected to read the assigned sections in the text and any other sources provided.
- Students are expected to ask relevant questions.
- Pay attention to announcements and course documents posted on Laulima.
- The instructor will send emails to individual students. **You must use your UH email account or make sure it is forwarded to other accounts if you use them. The instructor takes no responsibility if you fail to check your UH email account.**
- Students enrolled in this online class are expected to keep up with all assignments on a timely basis.

Please note: for any email you send me, please remember that I get a lot of emails so please include in the subject line: your full name, course name (ERTH 111), and the topic of your email (e.g. Valentino Rossi ERTH 111 Eruption Styles Learning Module Quiz). If you just sign off with "KC" and the email came from awesomestudent@hawaii.com I won't be able to figure out who it is! Keep to one topic (the one indicated in the subject line) in your discussion. End with your full name since other students may have your same first name.

IX. Types of Assignments

- Watch the video lecture and any other videos I have posted
- Chapter Readings (usually the textbook but I could post other stuff too)
- Quizzes based on the module topics
- Mid-term/Final exams

NOTE: Please read this section carefully and completely!

Late Work will **NEVER** be accepted and I cannot extend the deadlines for any reason. Since you will be submitting all your assignments through Laulima, missing the weekly deadlines for assignments for any reason results in an automatic zero. You will always have over a full week to complete the weekly lecture modules, quizzes and exams but when the final submission time passes there will be nothing I can do to help you. This also applies if you elect to wait until the last minute to complete the work and then have a sudden life crisis or a computer issue. Get your work done well before the deadline and your life (and mine!) will be smooth. Ok, so you got it??? Assignments, quizzes and exams may **NOT** be made up later than the due date so please do not ask. **All the due dates and times are listed in the syllabus.**

X. Network Outage Plan

Since this is an online course it relies heavily on the Internet and having a good Internet connection. Your quizzes and exams are taken over the Internet so make sure you are somewhere with a good connection. Occasionally there are internal problems with UH's network or Laulima. Usually these problems are temporary and your quizzes and exams will not be affected. More often than not there are external problems with your Internet service or your connection. For this reason, I would suggest that you get your assignments completed well before the deadline approaches on the due date and time. If you have issues taking a quiz or exam, and it is **NOT** within two hours of the deadline, I will always happily reset a quiz or exam for you. Just email me and will respond as promptly as I can. However, if it is within two hours of the deadline there may not be time for me to respond and you will not get a second chance. Just to be clear, you will normally have over seven days to complete your assignments. If you elect to complete them at the last minute and something goes wrong with your life or your Internet connection then I may not be able to reset your quiz or exam.

XI. Course Evaluation and Assessment:

Students will be final grades will be based on the total number of points received from weekly assignments, quizzes, and exams. To grade assignments, I must be able to read and understand them. Spelling, rules of English composition and legibility will count in grading. **Note: plagiarism and/or cheating will result with an F for the test or assignment.**

Grading Scale:

A=90-100%, B=80-89.99%, C=70-79.99%, D=60-69.99%, F=Less than 60%

XII: Audit Policy:

There are no requirements to auditing this class if you decide to change later in the semester.

XIII: Plagiarism and cheating policy:

As per university policy: Academic integrity is a basic principal that requires all students to take credit for the ideas and efforts that are their own. Cheating, plagiarism, and other forms of academic dishonesty are defined as the submission of materials in assignment, exams, or other academic work that is based on sources prohibited by the faculty member. Academic dishonesty is defined further in the "Student Code of Conduct." In addition to any adverse academic action, which may result from the academically dishonest behavior, the University specifically reserves the right to address and sanction the conduct involved through student judicial review procedures and the Academic Dispute Resolution Procedure specified in the University catalogue.

XIV. Protocols for Communicating with your Instructor and other Students Via the Internet:

- The most important rule of communicating electronically is, **"Think before you post!"**
- **Send emails from an educational or a military account only. The instructor will not respond to any other email addresses (I get a lot of spam so messages I receive from addresses I don't recognize I delete immediately.**

- In the subject line of emails indicate who you are, which class you're in and what the content of the email is, for example **"Kelsey Jones, ERTH 111: question on Chap 3 about Mantle Melting"**.
- Use appropriate greetings, **"Hello Dr. Naumann or Dr. T" (not "Yo")**,
- **Sign off with your full name** at the end of your email. Believe it or not, I may not recognize you if you just put "Chuckie".
- Emailing, messaging and posting on discussion boards in academia are different from emailing buddies and posting in newsgroups. You have to be courteous at all times, e.g. **"I would like to ask …"**. People are easily offended and take things the wrong way. If you have any question that what you are sending may not be ok, have somebody else read it first.
- Email doesn't have the subtleties of spoken or face-to-face conversation, and it's remarkably easy to be misunderstood or to offend someone. Therefore, stay polite, **"I have been working on this assignment for the past 2 hours – but am not getting any further. I like you to give me some advice." Be nice.**
- Assume that the instructor is willing to help you with problems, **"Dr. Naumann, please get back with me at your earliest convenience."** Hence intend to post using positive language. I am here to help you.
- Avoid internet slang such as btw (by the way), l8r (later), addy (address). Write in whole sentences with proper punctuation, grammar and spelling. Don't make it difficult for me to understand.
- If you are referring to a previous email, post, or textbook passage, include and quote the reference properly. It makes it more convenient for the instructor to be reminded of the original content and to not have to search for the original.
- If you believe someone has violated these procedures, do not post a follow-up to the offending post. Send a private email to your instructor about the violation and let the instructor handle the situation. Do not try to resolve it on your own. Be polite.
- Do not use all caps and do not use exclamation points. THAT'S LIKE SHOUTING!!!!!!
- Do not presume someone received your email – errors do occur. If it is an assignment or an important question, send it 'return receipt requested'.
- Allow the instructor time to respond. If you send an email or post a message on the weekend or on a weekday late afternoon, do not expect an instructor's response until the next business day.

XV: Academic Success and Disability Support Services

Please feel free to talk to your instructor anytime about your performance in the course or possible ways you can improve. Excellent references are available on the web and there are support texts in the library and classroom. I encourage you to organize study groups with your fellow students.

If you need disability-related accommodations, please notify the KOKUA Program (808) 956-7511. E-mail: kokua@hawaii.edu

http://www.hawaii.edu/kokua/

XVI: Title IX

The University of Hawai'i is committed to providing a learning, working and living environment that promotes personal integrity, civility, and mutual respect and is free of all forms of sex discrimination and gender-based violence, including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence, and stalking. If you or someone you know is experiencing any of these, the

University has staff and resources on your campus to support and assist you. Staff can also direct you to resources that are in the community.

Here are some of your options:

As members of the University faculty, your instructors are required to immediately report any incident of potential sex discrimination or gender-based violence to the campus Title IX Coordinator. Although the Title IX Coordinator and your instructors cannot guarantee confidentiality, you will still have options about how your case will be handled. Our goal is to make sure you are aware of the range of options available to you and haveaccess to the resources and support you need.

If you wish to remain ANONYMOUS, speak with someone CONFIDENTIALLY, or would like to receive information and support in a CONFIDENTIAL setting, use the confidential resources available here: http://www.manoa.hawaii.edu/titleix/resources.html#confidential

If you wish to directly REPORT an incident of sex discrimination or gender-based violence including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence or stalking as well as receive information and support, contact: Dee Unwood Title IX Coordinator (808) 956-2299 t9uhm@hawaii.edu.

Introduction to Volcanoes Learning Module Schedule for Spring 2021

Module	Date	Subject	Quiz/Exam Due Date
1	Jan 11	Introduction to Volcanoes Overview	1/18 @ 7 pm
2	Jan 18	History of Volcanology/Myths and Legends	1/25 @ 7 pm
3	Jan 25	Generation of Magmas	2/01 @ 7 pm
4	Feb 01	Magma Composition / Diversity of Volcanic Rocks	2/8 @ 7 pm
5	Feb 8	Transfer, Storage and Ascent of Magmas to the Surface	2/15 @ 7 pm
6	Feb 15	**Exam 1 (**Weeks 1 – 5)	2/22 @ 7 pm
7	Feb 22	Types of Volcanic Activity	3/01 @ 7 pm
8	Mar 01	Effusive Eruptions	3/08 @ 7 pm
9	Mar 08	Explosive Eruptions	3/15 @ 7 pm
	Mar 15	**Spring Break**	
10	Mar 22	Ash fall, Ash flows and Surges	3/29 @ 7 pm
11	Mar 29	**Exam 2 (**Weeks 7 – 10)	4/05 @ 7 pm
12	Apr 05	Lahars and Debris Avalanches	4/12 @ 7 pm
13	Apr 12	Human Population and Volcanoes	4/19 @ 7 pm
14	Apr 19	Volcanic Hazards and Risk Assessment	4/26 @ 7 pm
15	Apr 26	Volcano Monitoring	5/03 @ 7 pm
16	May 10	**Exam 3 Final (**Weeks 11 – 14)	5/14 @ 7 pm (Friday!)

***Please Note**: There are multiple single-day University holidays scattered throughout the semester. This schedule does not show their individual dates. You are not expected to perform University-related work on these holidays, so depending upon when they fall, please plan accordingly.