

**EARTH REVEALED****SUMMER TERM 2009**COURSE NUMBER: GS 142 (3-4 credits) CRN 10128Variable Credit: 3 credits or 4 with LabOFFICE HOURS: M - Th 10:30-11:30amWEBSITES: <http://classes.lanecc.edu/> (see below and p.5)INSTRUCTOR: MIKE MITCHELLOFFICE: Bldg 16, Rm 190BEMAIL: [mitchellm@lanecc.edu](mailto:mitchellm@lanecc.edu)PHONE: 463-5050FAX: 463-3961QUIZ PACKET- Gives a good hard copy for recording answersTEXT: PHYSICAL GEOLOGY: Earth Revealed, 7<sup>th</sup> or 8<sup>th</sup> edition, by Charles C. Plummer, David McGeary, Diane CarlsonLAB KIT: Geology Laboratory Kit for Distance Learning, (see p. 4)Note: A copy of the text, older text editions and old Telecourse Guides are on reserve in the Science Resource Center, room 193Science. These **Telecourse Guides contain multiple choice questions that are sometimes used on tests and quizzes.**MAIN CAMPUS BOOKSTORE HOURS: Mon., Tues., June 22, 23, 8am.- 7:30pm; June 25, 26, 8am - 4:30pm. Open June 29-Aug.18, 8am - 4:30pm. **Closed Tuesday, June 30 and Fridays.** Financial aid/Agency and CreditLine charges end one hour before Bookstore closure.Distance learning students may have books shipped by using VISA/MasterCard. For details, call the LCC Bookstore, (541) 463-5676, or e-mail [bollenbaugh@lanecc.edu](mailto:bollenbaugh@lanecc.edu)**OVERVIEW/ ESSENTIALS:**

1. There are two quizzes due each week (see schedule p.2). The quiz questions are taken mainly from the **video programs**, but a few are from the **self-test section in the Telecourse Guide**. Also, the **Study Focus** pages that precede each quiz in the Quiz Packet often contain answers to quiz questions.
2. There are three multiple-choice tests to be completed (see schedule p.2 and 3). The test questions are taken from, but are not always identical to, the quiz questions.
3. **Log** into and become familiar with the **Moodle** website (<http://classes.lanecc.edu/>). This is the best way for you to take quizzes and answer lab questions. The Login procedure is the same as for **ExpressLane**. Also see page 5 for more details on accessing this website.
4. **Extra Credit:** Several opportunities for extra credit in addition to what is given on page 3, will be posted on the **Moodle** site **along with the list of quizzes and labs**.
5. **Work may be turned in early; tests taken early:** You may submit quizzes, labs and **take tests anytime** before the due dates indicated on p. 2.
6. **Any assignment not done online** may be FAXED, dropped off in room 193 or in the Science Drop Boxes.
7. **The Grades Page on Moodle is not my official grade sheet.**

**STUDENT RESPONSIBILITIES:** For successful completion of the course, a student must satisfactorily fulfill the following:

1. View 19 telelessons
2. Read the appropriate material in the Text.. **Reading Assignments** for each lesson/program are give on the Moodle website.
3. Complete the assigned quizzes.
4. Take three required examinations.
5. For a 4th Credit: Complete the laboratory lessons listed on page 4.
6. **Log in to Moodle.** See #3,4 above in the OVERVIEW Section above **and page 5. Check Moodle often.**

**VIEWING SCHEDULE and OPTIONS:**

Comcast Channel 23 &amp; Charter Communications Ch 9 - See page 6 &amp; 7 for a complete schedule.

The videos for this course can also be viewed in the following places:

1. LCC Library: Open June 22-August 27, Mon.-Thurs. 8am – 5:00 pm; **Closed Fri.-Sun.**  
When asking for television lessons in the Videotape Library, use the numbers MV #2070 and the specific lesson number (i.e.1-24). There are several sets of videotapes available for check out from the library for one week. Photo ID is required for checking out materials.
2. The **Science Resource Center (SCI 193) M-Th 7:30am-4:00pm, Saturdays 9:00am-3:00pm. (Week 1, 10-2)**
3. Watch them online with a broadband connection at no charge at [http:// learner.org/view\\_programs/view.programs.html](http://learner.org/view_programs/view.programs.html)
4. In case of major technical problems with the telelessons as they are being telecast, call 463-5319.
5. Also, a complete set of videotapes are available to rent from ACT/RMI Media for \$55.00 (plus shipping). To order call RMI @ 1-800-745-5480 or online at [www.rmimedia.com](http://www.rmimedia.com).

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**EARTH REVEALED WEEKLY SCHEDULE:**

<u>Week</u>	<u>Date</u>	<u>Program/Lesson Titles</u>	<u>Quizzes &amp; Labs Due</u>	<u>Television Program No.</u>
1	June 22-28	Earth's Interior #3 The Sea Floor #4, The Birth of a Theory #5, Plate Dynamics #6	QUIZ 1 over Lesson 3: DUE June 26 QUIZ 2 over Lessons 4,5: DUE June 27 LAB LESSON 1 Due June 28	3,4,5,6
2	June 29 - July 5	Mountain Building #7, Earth's Structures #8, Earthquakes #9	QUIZ 3 over Lesson 6: DUE July 1 QUIZ 4 & 5, Lesson 7,8,9: DUE July 7 LAB LESSON 3 DUE July 6	7,8,9
3	July 6-12	Minerals:Materials of The Earth #12 Volcanism #13, Intrusive Igneous Rocks #14 Weathering and Soils # 15	<u>TEST #1</u> Programs/Lessons 4-9 <u>ONLY</u> (Quizzes 2-5) Tues.-Thurs. July 7-9 Sat., July 11 QUIZ 6, Lesson 12: DUE July 11 QUIZ 7, Lessons 13,14: DUE July 12 LAB LESSON 4 DUE July 12	12,13,14,15
4	July 15-19	Mass Wasting #16, Sedimentary Rocks #17 Running Water I #19, Running Water II #20	QUIZ 8, Lesson 15: DUE July 14 QUIZ 9, Lessons 16,17: DUE July 17 LAB LESSON 5 DUE July 19	16,17,19,20
5	July 20-26	Groundwater # 21 Wind, Dust and Deserts #22	QUIZ 10, Lessons 19,20: DUE July 20 TEST #2 Programs 12-17 <u>ONLY</u> (Quizzes 6-9) Tues.-Thur, July 21-23, Sat., July 25 QUIZ 11, Lessons 21: DUE July 26 LAB LESSON 6 DUE July 26	21,22
6	July 27- Aug. 2	Glaciers #23 Waves, Beaches and Coasts #24 ANY LATE WORK or EXTRA CREDIT (Like Quizzes or Labs Due by Sun., Aug. 2)	QUIZ 12, Lessons 22,23: DUE July 28 QUIZ 13, Lesson 24: DUE July 29 <u>TEST #3</u> Programs 19-24 (Quizzes 10-13) Wed. or Thurs., July 29,30, Sat., Aug.1 NOTE: 10 BONUS POINTS will be given if Test 3 is <u>Completed by Aug. 1</u> Last Lab #9 is Due Aug. 2	23,24

Monday, August 3 Last Day to take Test 3 (7:30am-4:00pm)

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**QUIZZES/TESTS:**

Quizzes are due beginning **Friday, June 26**. The quizzes are in the Quiz Packet and online. The quizzes should be completed by midnight on the date indicated above. Points will be deducted for late quizzes. **Quiz questions are worth one half point each**. Be sure to use the **Study Focus pages** that precede each quiz in the Quiz Packet. They often give helpful information for quiz questions.

**Quizzes will be done on-line** by going to the Moodle website (<http://classes.lanec.edu/>). To access the quizzes, 'click' on the quiz you want, read the directions, and 'click' on the "**Attempt quiz now**" button. You will be able to take the quiz twice. Your score will be available after each attempt. Correct answers will be emailed to you before every test after you have submitted each quiz twice. See the section on **Quizzes, page 5** for more instructions on quizzes and for specifics on logging into the Moodle website.

Tests may be taken **before** the dates listed above in the Science Resource Center, Rm 193,Bldg.16, during **open times**. Each test will be composed of multiple choice questions. Many of the questions are similar to those on the quizzes and self-tests. Tests will be taken in the **Science Resource Center either online or on paper**.



### **LAB INFORMATION:**

The **LAB LESSONS** to be completed are listed below. **A lab is due every Sunday starting June 28** until the requirement is fulfilled on Aug. 2 or before.

Labs that are over one week late may be given half credit. The lab scores will be posted on Moodle.

The following are the required LAB LESSONS 1, 3, 4, 5, 6, 9. They should be done in this order if possible. If the necessary resources are unavailable for a given lab, another lab may be done in its place for that week. **Please answer the lab questions online by going to Online Labs on the Moodle website.**

LAB LESSON 1 Topographic Maps p. 9, Lab Manual; Answer questions **online**

LAB LESSON 3 Earthquakes p. 39, Lab Manual; Answer questions **online**

LAB LESSON 4 Minerals p. 65, Lab Manual; Answer questions **online**

LAB LESSON 5 Volcanoes p.79, Lab Manual; Answer questions **online** (**Video 1 is required** for this lab)

LAB LESSON 6 Igneous Rocks p 91, Lab Manual; Answer questions **online**

LAB LESSON 9 Surface Water p. 129, Lab Manual; Answer **10 questions only**. (No video is **required for this lab**)

#### **EXTRA CREDIT (5 points each)**

LAB LESSON 10 Groundwater p. 141, Lab Manual; Answer questions **online** (**Video 1 is required** for this lab)

#### **AND/OR**

LAB LESSON 12 Alternative Energy Systems p. 165; Answer **online** (**Video 2 is required** for this lab)

The lab exercises above require a variety of materials and resources. **These resources may be obtained and used in **THREE** ways.**

1. They may be **purchased** as a Kit in the bookstore and all the labs done at home. The **kit contains the Lab Book**, map, mineral specimens, igneous rock samples and videotapes/DVD's (required for lab lessons 5, 10 & 12 listed above).
2. They may be **used in** the Science Resource Room, SCI 193, main campus. M-Th 7:30am-4:00pm; Sat 9:00am-3:00pm.
3. There are limited numbers of lab manuals, maps, minerals and rocks that may be **checked out from** the Science Resource Room, SCI 193. **Only one lab may be checked out at a time and only for three days**. Notice, the video for Lab Lessons 5 & 10 has the title, **Video 1** and for Lab Lesson 12, the title, **Video 2**.

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### **TUTORS & SPECIAL HELP:**

Science Resource Room, 193 Science. The person in charge (7:30am-4:00pm, M-Th) is a geologist and is very good at answering questions. Others also are very helpful. Lab work, video viewing, picking up materials can be done any time the room is open. **SCI 193 Schedule: M-Th 7:00am-4:00pm & Sat. 9am-3pm. Week 1, Saturday, hours 10-1pm. Closed on Saturday July 4<sup>th</sup>.**

### **FROM THE ADMINISTRATION: WITHDRAWAL INFORMATION:**

Students are responsible for all charges for classes not dropped by the full refund deadline. **After SUNDAY, June 28, at midnight, no tuition or fees will be refunded. Students withdrawing from a course after the refund period is over, will NOT receive a refund. It is the student's responsibility to officially drop.** For college policy regarding refunds see the current class schedule.

Students enrolling after the beginning of the class should immediately go to the Moodle website to obtain the syllabus and contact the instructor.

**COURSE GOALS/OBJECTIVES:** Upon successful completion of this class, the student should be able to:

1. Discuss why the intelligent preservation of our environment depends on the knowledge and application of geology.
2. Examine the beginnings of our Earth and solar system.
3. Describe the general topography of the ocean floor.
4. Describe the origins of the ideas of continental drift and sea floor spreading and how they contributed to the theory of plate tectonics.
5. Describe and give examples of three types of plate boundaries including their characteristic geologic features.
6. Discuss the factors that contribute to the occurrence of earthquakes.
7. Discuss the origin, classification and use of minerals.
8. Compare the major types of volcanoes and how they are formed.
9. Describe the erosional and depositional characteristics of moving water.
10. Explain the importance of waves in affecting coastal landforms.
11. Give examples of how civilization affects the Earth.

**Moodle Website:** <http://classes.lanecc.edu/> **Our Quizzing, Testing, Communication Center**

This website is vital because all of required class work like, **Quizzes, Tests**, plus any changes in this syllabus, reminders, **EXTRA CREDIT** personal messages, point totals will be posted here (<http://classes.lanecc.edu/>).

**You will be checking Moodle often**, especially for quizzes, **email and EXTRA CREDIT**.

When you go to this website, <http://classes.lanecc.edu>, you will **Login like you do on ExpressLane**. Use your **L number (including the L)** as your **Login ID** and the first 6 characters only of the **PIN** you use for **ExpressLane**. Then select **GS 142 Earth Science:Earth Revealed**.

For **technical questions** concerning Moodle, logging in etc., contact the **Student Help Desk** at 463-3333 or [SHeD@lanecc.edu](mailto:SHeD@lanecc.edu). Their website is at <http://www.lanecc.edu/icl/shed.htm>.

**QUIZZES:**

1. Quizzes (and Labs) should be completed by **midnight of the dates given on the WEEKLY SCHEDULE** page 2.
2. **Once you are on the Moodle Website**, ‘click’ on the quiz you want, read the instructions and then ‘click’ on the button **“Attempt quiz now”**
3. **You should either print the quiz from the website or buy a Quiz Packet**. As long as you do not ‘click’ Submit twice, you may reenter the quiz.
4. **You will have two attempts to take the quiz**. Your score will appear after the first attempt. If you are not satisfied with your score, you may change answers and try again immediately or later. You will receive the highest of the two scores.
5. **The correct answers will be emailed to you before the test if you have submitted all the quizzes up to that point**.

**COURSE DESCRIPTION:**

EARTH REVEALED is a one term television course consisting of 19 half-hour programs about geology. The programs document evidence of geologic principles at work using on-site footage at such geographically diverse locations as Nevado del Ruiz volcano in Columbia and urban neighborhoods destroyed by San Francisco's Loma Prieta earthquake. Many programs use a case study approach to involve students and viewers in the process of scientific discovery. The series attempts to provide students with the tools to understand both the slow pace of geologic change and the dynamic nature of the relationship between Earth and its inhabitants. The course is divided into the following areas:

- Introduction: An overview of Earth's geology.
- Plate Tectonics: The development of plate tectonic and its varied processes.
- The Rock Cycle: An analysis of the three major types of rock and how they were formed.
- Carving the Landscape: An examination of the forces that help shape the Earth's surface.
- Living With Earth: A discussion of why we must preserve Earth's natural resources.

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**Summer Term 2009**

**SIGNIFICANT DATES**

June 28 (Midnight)..... Last Day to Drop with Full Refund  
July 10 (Friday)..... Last day to make Schedule changes  
Aug. 2 (Sunday)..... **ALL EXTRA CREDIT or LATE WORK IS DUE**  
Aug. 3 (Monday)..... Last Day to take TEST # 3

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**Students With Disabilities** If you need **Support or assistance** because of a disability, you may be eligible for **academic accommodations** through **Disability Services**. For more information contact **Disability Services** at (541) 463-5150 (voice), or 463-3079 (TTY), or stop by **Building 1, Room 218**.

<p><b>IN CASE OF EMERGENCY CALL X 5555</b></p>	<p><b>For all Emergencies call X 5555</b></p>	<p><b>Outside Public Phone</b> Courtesy phones are located on the second floor of the Science Building.  There is no cost to call 911.</p>
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# "ARE TELECOURSES FOR ME?"

## This Questionnaire May Help You Decide

*Are Telecourses for You?*

How well would telecourses fit your circumstances and lifestyle? Circle one answer for each question and score as directed.

1. **My need to take this course now is:**
  - A. High - I need it immediately for degree, job, or other important reason.
  - B. Moderate - I could take it on campus later or substitute another course.
  - C. Low - it's a personal interest that could be postponed.
2. **Feeling that I am part of a class is:**
  - A. Not particularly necessary to me.
  - B. Somewhat important to me.
  - C. Very important to me.
3. **I would classify myself as someone who:**
  - A. Often gets things done ahead of time.
  - B. Needs reminding to get things done on time.
  - C. Puts things off until the last minute.
4. **Classroom discussion is:**
  - A. Rarely helpful to me.
  - B. Sometimes helpful to me.
  - C. Almost always helpful to me.
5. **When an instructor hands out directions for an assignment, I prefer:**
  - A. Figuring out the instructions myself.
  - B. Trying to follow the directions on my own, then asking for help as needed.
  - C. Having the instructions explained to me.
6. **I need faculty comments on my assignments:**
  - A. Within a few weeks, so I can review what I did.
  - B. Within a few days, or I forget what I did.
  - C. Right away, or I get very frustrated.
7. **Considering my professional and personal schedule, the amount of time I have to work on a telecourse is:**
  - A. More than enough for a campus class or a telecourse.
  - B. The same as for a class on campus.
  - C. Less than for a class on campus.
8. **When I am asked to use VCRs, computers, voice mail, or other technologies new to me:**
  - A. I look forward to learning new skills.
  - B. I feel apprehensive, but try anyway.
  - C. I put it off or try to avoid it.
9. **As a reader, I would classify myself as:**
  - A. Good - I usually understand the text without help.
  - B. Average - I sometimes need help to understand the text.
  - C. Slower than average.
10. **If I have to go to campus to take exams or complete work:**
  - A. I can go to campus anytime.
  - B. I may miss some lab assignments or exam deadlines if campus labs are not open evenings and weekends.
  - C. I will have difficulty getting to the campus, even in the evenings and on weekends.

### **SCORING:**

Add 3 points for each "A" that you circled, 2 for each "B," and 1 for each "C." If you scored 20 or over, a telecourse is a real possibility for you. If you scored between 11 and 20, telecourses may work for you, but you may need to make a few adjustments in your schedule and study habits to succeed. If you scored 10 or less, telecourses may not currently be the best alternative for you; talk to your counselor.



Earth Science - GS142  
 Earth Revealed MV#2070  
 Lane Community College  
 Comcast channel 23 & Charter Communications channel 9  
 Summer Term 2009

Monday	June	22	8:00 a.m.	Earth's Interior (Program 3)
			8:30 a.m.	The Sea Floor (Program 4)
			9:00 a.m.	The Birth of a Theory (Program 5)
			9:30 a.m.	Plate Dynamics (Program 6)
Tuesday	June	23	7:00 p.m.	Repeat - Program 3
			7:30 p.m.	Repeat - Program 4
			8:00 p.m.	Repeat - Program 5
			8:30 p.m.	Repeat - Program 6
Wednesday	June	24	1:00 p.m.	Repeat - Program 3
			1:30 p.m.	Repeat - Program 4
			2:00 p.m.	Repeat - Program 5
			2:30 p.m.	Repeat - Program 6
Friday	June	26	8:00 a.m.	Repeat - Program 3
			8:30 a.m.	Repeat - Program 4
			9:00 a.m.	Repeat - Program 5
			9:30 a.m.	Repeat - Program 6
Monday	June	29	8:00 a.m.	Mountain Building (Program 7)
			8:30 a.m.	Earth's Structures (Program 8)
			9:00 a.m.	Earthquakes (Program 9)
Tuesday	June	30	7:00 p.m.	Repeat - Program 7
			7:30 p.m.	Repeat - Program 8
			8:00 p.m.	Repeat - Program 9
Wednesday	July	1	1:00 p.m.	Repeat - Program 7
			1:30 p.m.	Repeat - Program 8
			2:00 p.m.	Repeat - Program 9
Friday	July	3	8:00 a.m.	Repeat - Program 7
			8:30 a.m.	Repeat - Program 8
			9:00 a.m.	Repeat - Program 9
Monday	July	6	8:00 a.m.	Minerals: The Materials of the Earth (Program 12)
			8:30 a.m.	Volcanism (Program 13)
			9:00 a.m.	Intrusive Igneous Rock (Program 14)
			9:30 a.m.	Weathering and Soils (Program 15)
Tuesday	July	7	7:00 p.m.	Repeat - Program 12
			7:30 p.m.	Repeat - Program 13
			8:00 p.m.	Repeat - Program 14
			8:30 p.m.	Repeat - Program 15
Wednesday	July	8	1:00 p.m.	Repeat - Program 12
			1:30 p.m.	Repeat - Program 13
			2:00 p.m.	Repeat - Program 14
			2:30 p.m.	Repeat - Program 15
Friday	July	10	8:00 a.m.	Repeat - Program 12
			8:30 a.m.	Repeat - Program 13
			9:00 a.m.	Repeat - Program 14
			9:30 a.m.	Repeat - Program 15

Monday	July	13	8:00 a.m.	Mass Wasting (Program 16)
			8:30 a.m.	Sedimentary Rocks: The Key to Past Environments (Program 17)
			9:00 a.m.	Running Water I: Rivers, Erosion and Deposition (Program 19)
			9:30 a.m.	Running Water II: Landform Evolution (Program 20)
Tuesday	July	14	7:00 p.m.	Repeat - Program 16
			7:30 p.m.	Repeat - Program 17
			8:00 p.m.	Repeat - Program 19
			8:30 p.m.	Repeat - Program 20
Wednesday	July	15	1:00 p.m.	Repeat - Program 16
			1:30 p.m.	Repeat - Program 17
			2:00 p.m.	Repeat - Program 19
			2:30 p.m.	Repeat - Program 20
Friday	July	17	8:00 a.m.	Repeat - Program 16
			8:30 a.m.	Repeat - Program 17
			9:00 a.m.	Repeat - Program 19
			9:30 a.m.	Repeat - Program 20
Monday	July	20	8:00 a.m.	Groundwater (Program 21)
			8:30 a.m.	Wind, Dust, and Deserts (Program 22)
Tuesday	July	21	7:00 p.m.	Repeat - Program 21
			7:30 p.m.	Repeat - Program 22
Wednesday	July	22	1:00 p.m.	Repeat - Program 21
			1:30 p.m.	Repeat - Program 22
Friday	July	24	8:00 a.m.	Repeat - Program 21
			8:30 a.m.	Repeat - Program 22
Monday	July	27	8:00 a.m.	Glaciers (Program 23)
			8:30 a.m.	Waves, Beaches, and Coasts (Programs 24)
Tuesday	July	28	7:00 p.m.	Repeat - Program 23
			7:30 p.m.	Repeat - Program 24
Wednesday	July	29	1:00 p.m.	Repeat - Program 23
			1:30 p.m.	Repeat - Program 24
Friday	July	31	8:00 a.m.	Repeat - Program 23
			8:30 a.m.	Repeat - Program 24