Syllabus

Earth and Space Science
Geology 110
3.0 Credits

Instructor: Mr. Steven Williams, PG, CEG. Since I am not a full time professor at IVC, I do not have an office in which to meet students. I will try to meet with students at a convenient time for the both of us. I can best be reached by email at the following address: swilliams@landmark-ca.com or steven.williams@imperial.edu.

Class Schedule: Class times are Mondays from 6:30 pm to 9:40 pm. Class will be held in Building 2700, Room 2733.

Textbook: The Good Earth – Introduction to Earth Science, by McConnell, Steer, Knight, and Owens (2nd Edition).

Course Objective: The objective of this course is to provide students with a better understanding and appreciation of their physical environment and the knowledge of how the earth's systems (geosphere, hydrosphere, biosphere, and atmosphere) work and interact. Students will also gain an understanding of the planets and the universe.

Student Learning Objectives

1. Gain critical thinking skills while working on and completing weekly homework assignments which include applying methods such as Venn diagrams, rubrics, and concept maps. (ILO2)

2. Gain awareness of geological events, weather and climate patterns and oceanic circulation on a global scale and understand/evaluate why events/features occur where they do. Assessment done through various homework assignments. (ILO5)

3. Gain knowledge of geological, meteorological, astromomical and oceanic features and processes through lectures, research papers, exams and presentations. Ties to all objectives. (ILO4)

Class Description: This class in an introduction to earth and space science and will cover basic principles from the fields of geology, oceanography, meteorology, and astronomy. Topics to be covered during this course will include: minerals and rocks, natural earth processes, plate tectonics, geologic time, composition of the earth, water movements, oceans, weather and climate, the solar system, origin and life cycles of stars, galaxies, and other related topics.

Attendance: Regular attendance of class is important for students to accomplish the work necessary to successfully complete this course. You are responsible for **all** material presented in class even if you miss for a legitimate reason (e.g., illness, family emergency, etc.). Please arrange to get class notes from another student if you miss class. Class assignments and scheduled tests cannot be made up if missed.

Dropping Class: ***It is your responsibility to drop the class.*** If you do not attend class and do not drop it, you will fail the class and receive a grade of F. If you want to drop the class, you must follow the current IVC guidelines to drop a class.

Please Note: Not all chapters in the text book are assigned and not all chapters (that are assigned) will be covered in their entirety; furthermore, as the class progresses, reading assignments may be altered. There may be reading assignments to replace or supplement the text material (so it is important to show up to class; you are responsible for knowing any changes made that will be announced during class hours). Also assignment due dates may change, another reason to attend class regularly.

Grading: Your grade for this course will be comprised of chapter questions, exams, written papers, and other class assignments.

- Chapter Questions. Chapter questions will be assigned for each chapter and will due at the quiz for those chapters covered by the quiz. Chapter questions will generally be worth between 10 and 20 points per set. You may work in groups on chapter questions. **Chapter questions must be turned in on time for full credit (no exceptions). Chapter questions will be due on the day of the exam. Chapter questions will not be accepted after the due date and will be given a score of zero.**

- Online Quizzes: Quizzes for every chapter will be posted on Blackboard. The quizzes will cover information from the textbook and from any online materials. **Each of the online quizzes will be worth about 20 points**. See the *Quiz Schedule* at the end of this syllabus for due dates. You can use your textbook or your notes to answer these quizzes, but not another person. Each quiz will have a time limit of 45 minutes (and two attempts), which will not be enough to look up every answer from scratch during a quiz. In other words, you will need to read the textbook, view online materials, and study your notes *before* beginning the time-limited online quiz. Use the *Key Concepts and Terms* as your guide of what to study in preparation for the online quizzes. Some of the quiz questions might relate to assigned readings that are not discussed in lecture; you are thus expected to read all of the assigned reading. Quizzes **close on the due dates.** No late or make-up quizzes.

- Exams: Exams will be given after we have covered several similar chapters. Exams will be worth 100 points each. Exams will cover material presented in the class, textbook, homework, quizzes, and class discussion. **There will be three (3) exams during the semester. All three exam scores will be included in your**

final grade. Exams must be taken on the scheduled day. You can make up exams only if you have a note from a doctor, a letter from the university regarding your participation in a university-sponsored activity, a copy of a jury summons, etc. This legitimate proof for why you cannot attend class that day must be provided to the instructor as far in advance of the exam as possible in order to determine a time to make up the exam.

- Research Paper: A research paper will be assigned about midway through the semester and will be due the final day of class. The research paper will be worth 100 points.

All work will be weighted equally, that is, I will add up all your scores and determine the percentage from the total points possible. Exams will be curved based on the overall performance of the class. The grading scale is as follows:

A = 88 – 100%
B = 75 – 87.9%
C = 60 – 74.9%
D = 50 – 59.9%
F = <49.9%

I want to emphasize, it is important to show up to class and turn your work in complete (demonstrating knowledge of the topic) and on time. You will do well in this class if you do this.

Research Paper: A research paper on a topic covered in this class (earthquakes, volcanoes, geologic processes, climate, or other related topic) is required for this class. The research paper is due the last day of class. You must submit one research paper. These reports must be at least 5 pages, double space, typewritten, with properly referenced and appropriate visual attachments (such as maps and diagrams) if needed. ***This work must be done on your own.*** We will go over proper scientific referencing procedures and presentation in class.

There may be unannounced short assignments presented (in class) that will generally cover the practical application of course studies to our life (and hopefully answer the question: why do we need to know this?); or on recent events related to earth and space science. Another reason to show up for class as these cannot be made up!

Exam Policy: All exams must be taken at the time scheduled. You will be given at least one week notice prior to exams. No exams will be given early for any reason. If you miss an exam, a make-up exam will be given on the last day of class to replace the missing exam. You may only miss one exam.

Behavior
You are all adults and I expect you to have behavior appropriate to a college level class - this is not High School. The classroom environment should be professional and friendly. Anyone showing disruptive behavior will be asked to leave. Disruptive behavior includes but is not limited to:

a) using profanities,
b) intentionally damaging classroom or laboratory materials,
c) using cellular phones (Cell phones are to be turned off during class and exams),
d) playing video games, surfing the internet or using a computer for anything other than class related activities while the instructor is addressing the class,
e) placing feet on the table tops while class is in session,
f) excessive talking while the instructor is addressing the class, and
g) creating an environment that is not conducive to learning for others.

Cheating in any form will not be tolerated. Copying another's work, plagiarism and cheating on tests may be punishable by a failing grade on that assignment or exam. The student will be referred to .

Disabled Student Program. Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible. DSP&S is located in room 2117 of the Health Sciences Building, phone (760) 355-6312.

Schedule: The following schedule is tentative. Depending how the class discussions proceed, the schedule may change.

Week	Topic / Lecture / Test	Readings
Week 1 January 20	Holiday – No Class	
Week 2 January 27	Syllabus & Introduction Chapter 1 – Introduction to Earth Science	Chapter 1 and 2
Week 3 February 3	Chapter 2 – Earth in Space	Chapter 3
Week 4 February 10	Chapter 3 – Near Earth Objects	Chapter 4
Week 5 February 17	Holiday – No Class	Chapter 4
Week 6 February 24	Chapter 4 – Plate Tectonics	
Week 7 March 3	Test #1 – Chapters 1-4 Chapter 5 – Earthquakes	Chapter 5
Week 8 March 10	Chapter 5 – Earthquakes	Chapter 6
Week 9 March 17	Chapter 6 – Volcanoes	Chapter 7
Week 10 March 24	Chapter 7 – Rocks and Minerals	Chapter 8
Week 11 March 31	Chapter 8 – Geologic Time	
Week 12 April 7	Test #2 – Chapters 5-8 Term Paper Discussion	Chapter 10
Week 13 April 14	Chapter 10 – Landslides	Chapters 14 and 15
Week 14 April 21	Holiday – No Class	Chapters 14 and 15
Week 15 April 28	Chapter 14/15 – Atmosphere/Weather	Chapters 16 and 17
Week 16 May 5	Chapter 16/17 – Climate/Global Change	
Week 17 May 12	Test #3 – Chapters 10, 14-17	

Quiz Schedule (through Blackboard) for Geol 110 Spring 2014
Quizzes (below) are due on Blackboard by 11:59 p.m. on the day indicated. Due by 11:59 pm on this date

Due by 11:59pm on this date	Quiz # / Chapter	Readings
Feb 2	Quiz 1, Chapter 1: Introduction to Earth Science	Chapter 1
Feb 9	Quiz 2, Chapter 2 Earth in Space	Chapter 2
Feb 16	Quiz 3, Chapter 3: Near-Earth Objects	Chapter 3
Mar 2	Quiz 4, Chapter 4: Plate Tectonics Chapter 4	Chapter 4
Mar 16	Quiz 5, Chapter 5: Earthquakes	Chapter 5
Mar 23	Quiz 6, Chapter 6: Volcanoes	Chapter 6
Mar 30	Quiz 7, Chapter 7: Rocks and Minerals	Chapter 7
Apr 6	Quiz 8, Chapter 8: Geologic Time	Chapter 8
Apr 28	Quiz 9, Chapter 10: Landslides	Chapter 10
May 4	Quiz 10, Chapters 14/15: The Atmosphere/Weather	Chapter 14/15
May 11	Quiz 11, Chapter 16/17: Climate/Global Change	Chapter 16/17