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| hcc logo | **HOUSTON COMMUNITY COLLEGE SOUTHWEST****SYLLABUS FOR GEOL. 1403- PHYS.GEOLOGY****Spring ,2014 CNR 80939** |
| **Discipline/Program** | **Geology.**  |
| **Course Level** | **First year (freshman)** |
| **Course Title** | **Physical Geology** |
| **Course Rubric and number** | **Geol. 1403** |
| **Semester with CNR** | **Spring 2014. CNR # 80939.** |
| **Course location/Times** | **Tuesday & Thursday 12:30 Pm – 03:30 pm. Room # S114. Stafford campus.** |
| **Course Semester credit Hours** | **5 ( 3 lect , 3 lab.)** |
| **Total Course Contact Hours** | **96 hours** |
| **Course Length ( # weeks)** | **16 weeks** |
| **Type of instruction** | **Direct instruction** |
| **Instructor contact information** | **Dr. Jalaluddin.Qureshi****e-mail:jalaluddin.qureshi@hccs.edu** |
| **Office location and hours** | **Tue – wed , 8:30 am - 4:30 pm @ Faculty workroom.** |
| **Course description: Hcc Catalog description** | Science and engineering majors study the Earth’s geological processes operating today and in the past. Students will know the main aspects of the Plate Tectonics Theory; identify the Earth plates and their boundaries. The course will focus on the features resulting from geologic processes such as mountain building, earthquakes and volcanoes, and the impact of these processes on the environment.The types of rocks (sedimentary, Igneous, metamorphic) and their way of forming will also be addressed. |
| **Course Prerequisite** | **One year of high school earth science and MATH 1314 (College Algebra).** **4 credit (3 lect, 3 labs).** |
| **Academic discipline Program Learning Outcomes** | 1.   Program SLO #\_ 1 \_: Students will recognize scientific and quantitative methods.  Students will evaluate the differences of scientific approaches and communicate these findings, analyses, and interpretations in oral and written communication. Program SLO #\_ 2 \_: Students will demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, religion, and public policies. Program SLO #\_ 3 \_: Students will demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture. Program SLO #\_ 4 \_: Students will identify and recognize the differences in competing scientific theories. |
| **Course Student learning Outcomes (SLO) / Assignment S.** | Level 1: Knowledge: 1. Define Physical Geology in terms of the Earth's materials, features, and processes that shape landforms. 2. Define the formation and position of the Earth in the Solar System. 3. Define the major features of the Oceanic and Continental Crusts. Level 3: Application 1. Interpretation and application of topographic maps and geologic profiles. Level 4: Analysis 1. Analyze, organize and contrast Minerals and Rocks in terms of physical properties, textures, and compositions. Level 6: Evaluation 1. Evaluate the models of Continental Drift and Plate Tectonics. Student should work on short term project s under supervision of instructor, like resistivity survey ,Environmenmental impact Assessment (EIA ) Field survey Near Houston area , Effect of Droughts In Houston TX, Ground Water contamination, Impact of Hydraulic Fracturing on Drinking water Resources or any other assignment relevant to course and world water day 2014. |
| **Learning objectives****(Numbering system linked to SLO)** | Level 1: Knowledge:1. Define Physical Geology in terms of the Earth's materials, features, and processes that shape landforms.2. Define the formation and position of the Earth in the Solar System.3. Define the major features of the Oceanic and Continental Crusts.Level 3: Application1. Interpretation and application of topographic maps and geologic profiles.Level 4: Analysis1. Analyze, organize and contrast Minerals and Rocks in terms of physical properties, textures, and compositions.Level 6: Evaluation1. Evaluate the models of Continental Drift and Plate Tectonics. 1. Level 1: Knowledge:1. Name the Geological terms used in describing Earth's materials, features, and processes that shape landforms.2. Identify the position of the Earth in the Solar System.3. Identify the major of the Oceanic and Continental Crusts. Level 3: Application |
| **Course Calendar** | 01/14: Presentations, Chapter 1: Introductions, Overview of CoursePhysical Geology Lecture and Lab Manual. 01/ 16 - 21, Chapter 1.Understanding Earth: A Dynamic and Evolving. 01/23 Chapter 3: Minerals – The Building Blocks of Rocks. 01/ 28 : Chapter 4: Igneous rocks and plutons 01/30. Assignment. No. 1. Presentation.  02/04. Lecture # exam 1 (chap 1,2 ,3 ,4 ) 02/06: Chapter 5. Volcanoes and volcanism 02/11 Chapter 7 : Sediment and sedimentary rocks 02/13: Chapter 8: Metamorphism and Metamorphic rocks. Practical.02/ 17 .President Holiday. **02/18: Lecture Exam -2.** 02/20 .Chapter 9. : Earthquakes and Earth Interior.02/ 25. Chapter10: Deformation, Mountain Building, and earth crust.02/27. LAB EXCERSICES / PRESENTATION OF ASSIGNMENT 2. 03/04 .Chapter 12 Running water- Streams and glaciers. 03 /06. Chapter. Ground water. 03/ 18/ field visit and compilation of field report. 03/ 20. Assignments .3. Presentation. (wwd )**03/ 22 world water Day Conference**. 04/ 01 Review and lab exercise 04/03 LAB WORK / Natural History Museum visit .04/ 08 .SWITCH MOVE. 04/ 10 Review. 04/ 17 Chapter 17. Geologic time scale , concept and principle s04/ 22 Final exam Review. 04 / 24. Student REPORTS PRESENTATIONS.  04/ 29. CLASS DISSCUSSION.05 / 6 Reports / assignments final. **05 / 8 Final Exam** **NOTE:** Course Syllabus and Class Schedule subject to modification. Any updates to the syllabus and schedule will be posted on Learning Web. This is tentative syllabus and can be change accordingly. |
| **Instructional methods** | **Standard class lectures using white board, power point, and hands-on activities for lab.** |
| **Instructor’s requirements** | **Attendance:**Students are supposed to be on time for calls, and have a perfect attendance. Instructor will check attendance daily. No more then 3 excused absences are accepted. Failure to break the rule leads to student withdrawal from the course.**Course materials:**Students should bring textbook and lab. Manual to class. No copies are accepted. This non- negotiable matter.**Classroom policy:**Food and drinks are strictly prohibited, as well as the use of cell phone in class. |
| **EGLS – Evaluation for Greater Learning Survey System** | **EGLS3 -- Evaluation for Greater Learning Student Survey System** **At Houston Community College, professors believe that thoughtful student feedback is necessary to improve teaching and learning. During a designated time, you will be asked to answer a short online survey of research-based questions related to instruction. The anonymous results of the survey will be made available to your professors and division chairs for continual improvement of instruction. Look for the survey as part of the Houston Community College Student System online near the end of the term.** |
| **Grading Scale** | **The grading scale used is the following:****A = 90 – 100****B = 80 – 89****C = 70 – 79****D = 60 – 69****F = < 60** Assignments = 10 % of final grade Lecture Exam 1 = 5 % of final grade Lecture Exam 2 = 5 % of final gradeWorld water Day conference. = 10% of Final Grade  Field work = 10% of final gradeVideo # 1 & 2. Quiz #2 = 10 % of final grade Final Exam = 20% of final gradeResearch Project = 10% of final gradeLab Assignments = 20% of final grade Total = 100% ***Extra Credit:*** There will be a few extra credit opportunities during the semester. These are good opportunities to add more points to your total score. Opportunities and value to be announced. |
| **Instructional materials** | The Changing Earth: …,9780840062086 **C:\Users\Jalal uddin\Desktop\ipad pHOTOS 118 (2).jpg**  **Textbook**: *The Changing Earth, 6th ed.,* by Monroe & Wicander; Cengage, 2012 (ISBN 9781285914886) Textbook website: [click here](http://www.cengage.com/aushed/instructor.do?disciplinenumber=1075&product_isbn=9780840062086&courseid=EH01&codeid=673A&sortBy=copyrightYear&sortByShow=all)This is a custom printed book. Loose-leaf 3-hole punched wrapped in plastic. Bundled in it is a card with passcode to Virtual Field Trips in Geology.**Textbook:**Lecture: The Changing Earth. Exploring Geology and Evolution. Sixth Edition. By: Monroe & Reed. **Lab. Manual:**Laboratory Manuel in Physical Geology, 9th Edition: Edited by R.M. Busch; Prentice-Hall publishers. EACH STUDENT MUST HAVE HIS OWN LAB MANUAL. **COPIES ARE NOT ACCEPTED**. |
| **Academic Honesty** | Students are responsible for conducting themselves with honor and integrity in fulfilling course requirements. Disciplinary proceedings may be initiated by the college system against a student accused of scholastic dishonesty. Penalties can include a grade of "0" or "F" on the particular assignment, failure in the course, academic probation, or even dismissal from the college. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion |
| **Disability Support Services**  | HCCS is committed to compliance with the American with Disabilities Act and the Rehabilitation Act of 1973 (section 504)***"Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the Disability Services Office at the respective college at the beginning of each semester. Faculty are authorized to provide only the accommodations requested by the Disability Support Services Office”***If you have any special needs or disabilities which may affect your ability to succeed in college classes or participate in college programs/activities, please contact the office of disability support services at the college. Upon consultation and documentation, you will be provided with reasonable accommodations and/or modifications. Please contact the DSS office as soon as you begin the term. For questions, contact Donna Price at 713 718 5165 or the Disability Counselor at HCC-Southwest: Dr. Becky A. Hauri at 713 718 7909; also see the Schedule of Classes for additional DSS numbers.**Also visit the ADA web site at:** [**http://www.hccs.edu/students/disability/index.htm**](http://www.hccs.edu/students/disability/index.htm)**. Faculty Handbook/ Faculty Orientation is also available at** [**http://www.hccs.edu/students/disability/faculty.htm**](http://www.hccs.edu/students/disability/faculty.htm) |
| **HCCS Sexual Harassment Policy** | HCC shall provide an educational, employment, and business environment free of sexual harassment. Sexual harassment is a form of sex discrimination that is not tolerated at HCC. Any student who feels that he or she is the victim of sexual harassment has the right to seek redress of the grievance. HCC provides procedures for reviewing and resolving such complaints through its Grievance Policy. Substantiated accusations may result in disciplinary action against the offender, up to and including termination of the employee or suspension of the student. In addition, complainants who make accusations of sexual harassment in bad faith may be subject to equivalent disciplinary action. |

**Important Dates.**

**January 13, 2014 Classes Begin**

**January 20, 2014 MLK Day Holiday**

**January 27, 2014 official Day of Record**

**January 29, 2014 70% Refund**

**February 4, 2014 25 % Refund**

**February 17, 2014 president Holiday**

**March 10- 16, 2014 Spring Break.**

**March 31, 2014 Last day of Students with Drawl @ 4:30 pm**

**April, 18- 20, 2014 spring Holidays**

**May 4 Instruction Ends**

**May, 16 Grades available to Students.**

**Field visit. Site 8589 F.M. 359, Pattison TX 77466 .**