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|  | **HOUSTON COMMUNITY COLLEGE SOUTHWEST**  **TENTATIVE COURSE OUTLINE FOR**  **GEOL. 1403- PHYS.GEOLOGY**  **Summer II, 2015**  **CRN # 15133** |
| **Discipline/Program** | **Geology** |
| **Course Level** | **First year (freshman)** |
| **Course Title** | **Physical Geology** |
| **Course Rubric and number** | **Geol. 1403** |
| **Semester with CNR** | **Summer II. CRN# 15133** |
| **Course location/Times** | **Stafford- Scarcella Center /Rm S114/MoTuWeTh 12:00pm – 4:45pm** |
| **Course Semester credit Hours** | **4 (3lect, 3 lab.)** |
| **Total Course Contact Hours** | **96 hours** |
| **Course Length ( # weeks)** | **5 weeks** |
| **Type of instruction** | **Direct instruction** |
| **Instructor contact information** | **Dr. Atinuke Akingbade**  **e-mail:** [**atinuke.akingbade@hccs.edu**](mailto:atinuke.akingbade@hccs.edu)  **learning web: http://learning.hccs.edu/faculty/** |
| **Office location and hours** | **By appointment Only. Please set up via email request to instructor** |
| **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 lab).** |
| **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)** | 1. 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. |
| **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: 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.  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** | **Week 1**  07/11 Mon.: ***Chapters 1&2*** : Nature of Geology/Investigating geologic que.  07/12 Tues. : Lab #1  07/13 Wed. : ***Chapter 3 :*** Plate tectonics/Minerals and Rocks.  07/14: Thur.: Lab#2: Plate tectonics and origin of Magma.  **Week 2**  07/18: Mon.: ***Chapter 4:*** Earth Material/ Lab#3: Mineral property, identification and uses  07/19: Tue. : ***Chapter 5***: Igneous Environment/ Lab # 4  **07/20: Wed.: Lect. Exam#1**  **07/21: Thur.: Lab. Exam#1**  **Week 3**  07/25: Mon.: ***Chapter 6***: Volcanoes and volcanic hazard/Lab 5  07/26: Tue. : ***Chapter 7***: Sedimentary Environments and rocks.  07/27: Wed.: Lab#6: Sedimentary processes, rocks.  07/28: Thur.: ***Chapter 8***: Deformation and Metamorphism.  **Week 4**  08/01: Lab # 7: Metamorphic rocks processes and resources.  08/02: Lab#9: Topographic maps.  **08/03: Lect. Exam #2**  **08/04: Lab Exam # 2**  **Week 5**  08/08: Chapter 12: Earthquakes and Earth Interior.  **08/09: Final Exam Review.**  **08/11: Final Exam.**  ***Class participation points will be awarded during class only.*** |
| **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 than 3 excused absences are accepted. Failure to keep 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 is a non- negotiable policy.  **Classroom policy:**  Food and drinks are strictly prohibited.  The use of cell phones and other electrical gadgets are forbidden in class.  I Repeat**: No Cell phone, head phones and other electronic gadgets in Class for any reason**.  No sleeping in class and no heads on any desk or table.  There will be consequences for disrespect of rules, including but not limited to deduction of class participation points. Offending students may also be required to leave the class for the rest of the day.  **Examination Policy:**  Students will not be allowed to use the restrooms during an examination or quiz that is taken in class. Please ensure that restroom visits are done before coming in to sit for an exam. If a student leaves the examination room for any reason, such student will not be allowed to continue writing that exam should they return to the exam room. |
| **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 and Grades weight** | **The grading scale used is the following:**  **A = 90 – 100**  **B = 80 – 89**  **C = 70 – 79**  **D = 60 – 69**  **F = < 60**  **Break down of grades Points Percentage of final grade**  **Quiz/class 200 20%**  **Exam1 100 10%**  **Exam2 100 10%**  **Lab work and Lab exams 300 30%**  **Class Participation 50 5%**  **Class Project 50 5%**  **Final exam 200 20%**  **Total 1000 100%**  Total |
| **Instructional materials** | **Textbook:**  Lecture: Exploring Geology. 4th Edition: Raynolds, Johnson, Morin & Carter.  **Lab. Manual:**  Laboratory Manuel in Physical Geology, 10th Edition: Edited by R.M. Busch; Prentice-Hall publishers.  EACH STUDENT MUST HAVE HIS OWN LAB MANUAL. **COPIES ARE NOT ACCEPTED**.  **Online line to Text/Assignments and quizzes on Connect**  <https://connect.mheducation.com/class/d-akingbade-summer-ii-2016--motuweth-1200pm--445pm-1>  **Students will access text publication, other resources and link up with the instructor through the link provided above.** |
| **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** | **July 11 Classes begin**  **July 14 Official day of record**  **July 15 70% refund**  **July 18 25% refund**  **August 09 Instruction ends**  **August 11 Final examinations** |