## NEW COURSE PROPOSAL FORM

**ACADEMIC AREA:** MATH AND SCIENCES

**PROGRAM:** AA GENERAL EDUCATION

**PROPOSEd by**: JosepH Van Gaalen

**PRESENTER:** Joseph van gaalen

**SUBMISSION DATE:** 10/14/2011

**CURRENT COURSE PREFIX, NUMBER AND TITLE:**

### GLY 1010C --- Physical geology

### SECTION I

**COURSE INFORMATION: TYPE iN THE APPROPRIATE INFORMATION FOR EACH ITEM:**

**DEPARTMENT:** MATH AND SCIENCES

**COURSE PREREQUISITE(S):** successful completion of all college prep courses

**MINIMUM GRADE OF prereqUISITE(s):** C

**COURSE COREQUISITE(S):** LIST ALL COREQUISITES IN SEQUENTIAL ORDER

**COURSE CREDITS OR CLOCK HOURS:** 4

**credit type:** COLLEGE CREDIT (TRANSFERABLE)

**CONTACT HOURS:** 4

**COURSE DESCRIPTION:**

This course is an introduction to the study of the materials, structures and features of the Earth and the processes that produced them. Topics addressed include classification of rocks, their origin, seismicity and plate tectonics in the Earth, glaciation, mountain building (orogeny), hydrology, weathering/erosion and geologic time. For both science and non-science majors. May be taken before or after GLY 1100C.

**GENERAL TOPIC OUTLINE:**

* Plate tectonics as a theory and association with uniformitarianism
* Rocks and minerals; compare/contrast major rock and mineral types
* Rock cycle
* Geologic hazards
* Study of resources ranging from groundwater to fossil fuels
* Glaciers and factors affecting glacial/interglacial periods
* Structural features associated with the geomorphology
* Weathering from erosion, mass wasting and identify causes/effects of each
* Basis of geologic time
* General characteristics of mountain building (orogeny)
* General hydrologic circumstances in various geologic settings

**LEARNING OUTCOMES:**

TYPE IN ALL OF THE LEARNING OUTCOMES, ASSESSMENTS AND GEN ED COMPETENCIES AS THEY SHOULD BE DISPLAYED IN THE SYLLABUS

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| LEARNING OUTCOMES | ASSESSMENTS | GENERAL EDUCATION COMPETENCIES |
| Defend theory of plate tectonics, analyze and interpret orogeny as it applies to tectonic theory. | Short essay or presentation. | QR, COM |
| Identify zones of Earth’s interior and explain their significance. | Exams; quizzes. | QR |
| Infer rock type within the context of geologic setting. | Laboratory exercises. | CT |
| Define impacts of use of geologic resources and hazards on the environment. | Problem solving exercises; laboratory exercises | GSR, CT |
| Define geologic weathering types and give examples of mass wasting. | Exams; quizzes. |  |
| Explain the rock cycle and indicate examples of absolute and/or relative dating. | Exams; quizzes; laboratory exercises. |  |
| Identify and interpret groundwater data and produce hydrographs summarizing the hydrologic cycle. | Data analysis report or presentation. | TIM, COM |

### SECTION II (Must complete each item below)

**ICS CODE FOR THIS COURSE:** ADVANCED AND PROFESSIONAL - 1.11.19 - PHYSICAL SCIENCES

**IF YOU INTEND TO RESTRICT STUDENT REGISTRATION BASED ON THE STUDENTS’ MAJOR(S), ENTER ALL APPLICABLE MAJOR RESTRICTION CODE(S)—Enter “NA” OR MAJOR code(S):**

Click here to enter text

**GRADE MODE:** STANDARD GRADING

**IS THIS AN “INTERNATIONAL OR DIVERSITY FOCUS” COURSE?** NO

**IS THIS A GENERAL EDUCATION COURSE?** YES

**IS THIS A WRITING INTENSIVE COURSE?** NO

**iS THIS AN HONORS COURSE?** NO

**IS THIS A REPEATABLE\* COURSE?** NO

(A repeatable course may be taken more than one time for additional credits. For example, MUT 2641, a 3-credit hour course, can be repeated 1 time and a student can earn a maximum of 6 credits.)

\*not the same as Multiple Attempts or Grade Forgiveness

**IF “YES”, WHAT IS THE MAXIMUM NUMBER OF CREDITS A STUDENT CAN EARN FOR THIS COURSE? if “NO”, ENTER “na” BELOW.**

TYPE NUMBER HERE

**DO YOU EXPECT TO OFFER THIS COURSE THREE TIMES OR LESS?** NO

**WILL THESE CHANGES HAVE AN IMPACT ON OTHER COURSES, PROGRAMS OR DEPARTMENTS?** YES

**IF “YES,” please eXPLAIN or submit comments (ENTER “NA” or COMMENTS):**

This is a required course for the school of education (BS Middle grades)

**IF “YES,” HAVE YOU DISCUSSED THIS PROPOSAL WITH ANYONE (FROM OTHER DEPARTMENTS AND/OR PROGRAMS) REGARDING THE IMPACT? WERE ANY AGREEMENTS MADE (ENTER “NA” OR COMMENTS)?**

Dr. Harrel

**DO YOU ANTICIPATE THAT STUDENTS WILL BE TAKING ANY OF THE PREREQUISITES LISTED FOR THIS COURSE IN DIFFERENT PARTS OF THE SAME TERM?** NO

**IS ANY COREQUISITE LISTED ON THIS COURSE LISTED AS A COREQUISITE ON ITS PAIRED COURSE?** SELECT ANSWER

eXAMPLE: CHM 2032 IS A COREQUISITE FOR CHM 2032L AND CHM 2032L IS A COREQUISITE FOR CHM 2032.

### SECTION III (MUST COMPLETE EACH ITEM BELOW)

**PROVIDE JUSTIFICATION FOR EACH CHANGE ON THIS PROPOSED CURRICULUM ACTION (OTHER EXPLANATORY INFORMATION)—ENTER “na” OR TEXT:**

THIS IS A REQUIRED COURSE FOR THE SCHOOL OF EDUCATION (BS MIDDLE GRADES) and replaces a discontinued course.

**NOTE:**

CHANGES FOR THE UPCOMING FALL TERM MUST BE SUBMITTED AND APPROVED NO LATER THAN THE FEBRUARY CURRICULUM COMMITTEE MEETING PRIOR TO THE START OF THE NEXT ACADEMIC YEAR. CHANGES DURING MID-SCHOOL YEAR ARE NOT ALLOWED. EXTREME CIRCUMSTANCES WILL REQUIRE APPROVAL FROM THE DISTRICT DEAN OF INSTRUCTION AS WELL AS THE VICE PRESIDENT OF ACADEMIC AFFAIRS TO BEGIN IN EITHER THE SPRING OR SUMMER TERM.

**TERM IN WHICH PROPOSED ACTION WILL TAKE PLACE:**

FALL 2012 TYPE IN TERM IF “EXCEPTION” AND OBTAIN BOTH SIGNATURES BELOW OR TYPE “NA”

**oRDER OF APPROVAL FOR EXCEPTIONS IS AS FOLLOWS:**

SIGNATURE #1 NEEDED FOR EFFECTIVE TERM EXCEPTION:

SIGNATURE #2 NEEDED FOR EFFECTIVE TERM EXCEPTION:

**FACULTY ENDORSEMENTS:**PLEASE SEPARATE FACULTY MEMBERS WITH A COMMA (,)



**DEPARTMENT CHAIR / PROGRAM COORDINATOR ENDORSEMENT:**

 10/14/2011

**ASSOCIATE / ACADEMIC DEAN ENDORSEMENT:**

 10/14/2011

**DEANS’ COUNCIL ENDORSEMENT:**

 11/16/2011

**STUDENT ASSESSMENT COMMITTEE CHAIR ENDORSEMENT:**

 11/18/2011

**FOR CURRICULUM COMMITTEE MEETING DATE:**



AFTER REVIEWING AND SIGNING THIS PROPOSAL, THE DISTRICT DEAN WILL RETURN THE PROPOSAL TO THE DEPARTMENT CHAIR OR PROGRAM COORDINATOR WILL SUBMIT THE PROPOSAL TO THE VPAA OFFICE. THE DEPARTMENT CHAIR/PROGRAM COORDINATOR WILL SEND THIS PROPOSAL ALONG WITH ANY OTHER PROPOSALS FROM HIS/HER DEPARTMENT BEING SUBMITTED FOR REVIEW BY THE CURRICULUM COMMITTEE TO THE STUDENT ASSESSMENT COMMITTEE FOR REVIEW. ONCE APPROVED BY THE STUDENT ASSESSMENT COMMITTEE, SUBMIT THE PROPOSAL(S) TO DROPBOX BY THE MEETING DUE DATE. FOR MORE DETAILS, PLEASE REFER TO THE CURRICULUM COMMITTEE MANUAL: www.edison.edu/facultystaff/curriculum.php