UNIVERSITY OF MARY WASHINGTON – PROGRAM CHANGE PROPOSAL

Electronically submit this completed form with attachments in one file to the Chair of the College Curriculum Committee.

<table>
<thead>
<tr>
<th>COLLEGE (check one):</th>
<th>Arts and Sciences</th>
<th>Business</th>
<th>Education</th>
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</thead>
<tbody>
<tr>
<td>Proposal Submitted By: Chuck Whipkey</td>
<td>Date Prepared: 1/7/2014</td>
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<tr>
<td>Department /Program:</td>
<td>Earth and Environmental Sciences/Geology Major</td>
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Note: for any program change entailing the addition any new courses, or revisions to existing courses, separate proposal for those course actions must also be submitted.

PROPOSAL TO CHANGE EXISTING PROGRAM (check no than one of the following)

| | 
|---|---|
| Revise requirements for existing major | X |
| Revise requirements for a concentration within an existing major |
| Revise requirements for an existing degree program |
| Revise requirements for existing certificate program |
| Revise requirements for existing minor |
| Implementation Date: FALL semester, year: 2014 |

REQUIRED ATTACHMENTS FOR CHANGES TO EXISTING PROGRAMS:

1. Rationale statement (Why is this program change needed? What purposes will it serve?)
2. Impact Statement (Provide details about the Library, space, budget, technology, and impacts created by this program change. Supporting statements from the Library, IT Department, etc. evaluating the resource impact and feasibility of the program change are required.)
3. Catalog Copy (Provide the existing Catalog Description and the complete statement of the proposed new Catalog description that reflects the program changes)

PROPOSAL TO CREATE NEW PROGRAM NOT REQUIRING STATE ACTION

(check no more that one of the following)

| | 
|---|---|
| New concentration within existing major | Name: |
| New minor | Name: |
| New Major but NOT a new degree* | Name: |

*Use ONLY for interdisciplinary majors that will be grouped as part of the "Special Majors/General Liberal Arts and Sciences" degree (CIP Code 24.0101) or reported as a BLS degree (CIP Code 24.0199)

Implementation Date (semester and year):

REQUIRED ATTACHMENTS FOR NEW PROGRAMS NOT REQUIRING STATE APPROVAL:

1. Rationale statement (Why is this additional program needed? What purposes will it serve?)
2. Impact Statement (Provide details about the Library, space, budget, technology, and impacts created by this program change. Supporting statements from the Library, IT Department, etc. evaluating the resource impact and feasibility of adding the new program are required.)
3. Catalog Copy (Provide the complete Catalog Description for the proposed new program)

Department Chair Approval: 
Date: 1-7-14

CCC Chair Approval: 
Date: 

Dean Approval:  
Date:  

UCC Chair Approval:  
Date:  

*Provost Approval:  
Date: 

*Required only in cases of proposals for new concentrations, new minors, or new majors that do not involve a new degree

Program Change Proposal Cover Sheet (July 2013)
This is a proposal to require that EESC 210 Oceanography and 211 Oceanography Laboratory (cross listed as GEOL 210 and GEOL 211) must be taken concurrently in order to count for elective credit in the Geology major.

1. Rationale: EESC/GEOL 210 Oceanography (3 cr) is a non-lab course that was originally taken primarily by majors within our department, and is currently a major elective in the Geology major. However, when the Natural Science General Education requirements were changed to allow non-lab courses, we modified this course to be suitable for the Gen Ed requirement. We do not believe that the current version of 210 as a stand-alone course is suitable as an elective in our department’s majors. A second course, EESC/GEOL 211 Oceanography Lab (1 cr), is designed to supplement 210 and, taken together, they are suitable as major electives in the Geology major. The supplementary material provided in 211 gives our students hands-on activities and field experiences suitable for all of our department’s major students.

2. There will be no library, space, budget, technology, or other impacts created by this program change. Most of our major students who desire to take 210 are advised to also take 211, so we expect minimal impact on enrollment.

3. The catalog descriptions of EESC/GEOL 210 and 211 will remain unchanged:

210 – Oceanography (3)
Prerequisite: GEOL 111. An introduction to the oceans. Physical and chemical processes affecting seawater; the geology of the seafloor; biological productivity in the oceans; and environmental challenges involving the oceans. Cross-listed as EESC 210.

211 – Oceanography Laboratory (1)
Corequisite: GEOL/EESC 210. Laboratory investigation of the chemical and physical properties of seawater; the tides; bathymetric measurements; coastal navigation; and marine biological processes. One or more field trips may be scheduled. Cross-listed as EESC 211

Catalog text that lists our major electives will be modified as shown:

**Current text:**
Requirements for Geology Major
Thirty-six (36) credits, to include Geology 111, 112, 301, 302, 311, and 412; an additional twelve (12) credits in other geology courses at the 200-level or above. With advisor approval, Chemistry 331 and 332 may be substituted for up to four (4) of these credits. Environmental Science 307, 321, 326, 330, and 493 may also be included for geology elective credit

**Proposed text (if changes in this proposal only are approved; proposed changes underlined):**
Requirements for Geology Major
Thirty-six (36) credits, to include Geology 111, 112, 301, 302, 311, and 412; an additional twelve (12) credits in other geology courses at the 200-level or above; note that 210 must be taken concurrently.
with 211 to count for elective credit. With advisor approval, Chemistry 331 and 332 may be substituted for up to four (4) of these credits. Environmental Science 307, 321, 326, 330, and 493 may also be included for geology elective credit.

NOTE: We are proposing other modifications (see other proposals) to the major elective requirements in the Geology major. **If the other changes are all approved**, the catalog copy for the Geology major will read as follows (proposed changes underlined):

Requirements for Geology Major

Thirty-six (36) credits, to include Geology 111, 112, 301, 302, 311, and 412; an additional twelve (12) credits in other geology courses including GEOL 201, 205, 210 **and 211 (211 must be taken concurrently with 210), 240, or other geology courses at the 300-level and above.** With advisor approval, Chemistry 331 or 332 may be substituted for up to four (4) of these credits. Environmental Science 307, 321, 326, 330, and 493 may also be included for geology elective credit.