40. Change in Curriculum

**College of Geosciences**
- Department of Oceanography
- Minor in Oceanography
CHANGE IN CURRICULA
CHANGE IN CURRICULUM

COLLEGE OF GEOSCIENCES
DEPARTMENT OF OCEANOGRAPHY
MINOR IN OCEANOGRAPHY
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (ex. DVM, JD, MD, etc.)

2. Request change for: ☐ Degree Program ☑ Minor ☐ Certificate

3. Request submitted by (Department or Program Name): Oceanography

Program Designation and Name
(e.g. B.A. in History, Minor in History, Certificate in European Union): Minor in Oceanography

5. Brief description of change: Replace the list of OCNG courses with "any of the undergraduate OCNG courses. However, only one of OCNG 251 or OCNG 401 can be used for the minor."

6. Rationale for change: We are changing catalog text to reflect that all undergraduate oceanography courses are part of the pool of applicable courses. This reduces changes in the future as other course may be offered. The change is also to make it clear to students that OCNG 251 and OCNG 401 cannot both be used for credit in the minor. While the level of each of those courses is distinctly different, the topics covered are essentially the same. OCNG 401 uses is a quantitative approach designed for students with math and science backgrounds, while OCNG 251 is more descriptive and designed for students without math and science backgrounds.

---

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached. ☑ Yes ☐ No

b. Current catalog curriculum with handwritten edits attached. ☑ Yes ☐ No

c. Current Howdy degree evaluation with handwritten edits attached. ☑ Yes ☐ No

Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? ☐ Yes ☑ No

b. If yes, degree program hours will change from: ________ to: ________

8. c. If yes, is the Texas Higher Education Coordinating Board form attached? ☑ Yes ☐ No

http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBF01D60

9. If proposed changes affect other unit(s), are letters of support attached? ☐ Yes ☑ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

---

Approval recommended by:

Debbie Thomas
Department Head or Program Chair (Type Name & Sign) Date

Chris Houser
Dean of College Date

Chris Houser
Chair, College Review Committee Date

Chair, GC or UCC Date

Questions regarding this form should be directed to Curricular Services at 843-8201 or sandra-williams@tamu.edu
Curricular Services • 04/14

RECEIVED
CURRICULAR SERVICES

R NOV 24 2014
November 21, 2014

MEMORANDUM

TO: Office of the Registrar

THROUGH: Dr. Chris Houser
AOC Dean College of Geosciences

FROM: Dr. Debbie Thomas
Department Head, Department of Oceanography

SUBJECT: Change in Oceanography Minor

The OCNG minor description is being changed to better reflect how the minor is actually administered and to reduce confusion for students. This reduces the need for changes in the future as other course may be offered. The change is also to make it clear to students that OCNG 251 and OCNG 401 cannot both be used for credit in the minor. While the level of each of those courses is distinctly different, the topics covered are essentially the same. OCNG 401 uses is a quantitative approach designed for students with math and science backgrounds, while OCNG 251 is more descriptive and designed for students without math and science backgrounds. There is no change to the material that students cover or the learning outcomes for the minor. If you have any questions please contact our Advisor, Missy Mathews, by email at missy@tamu.edu, or by phone at 979-845-7688.
Studies in
Oceanography

Oceanography is an interdisciplinary science that focuses on the oceans, their contents and their boundaries. Degree programs are offered at the graduate level, leading to the Master of Science and the Doctor of Philosophy degrees in oceanography. In addition, various undergraduate courses are offered, and qualified undergraduate students may participate in a 15-credit minor in Oceanography. A minor consists of at least 15 hours selected from OCNG 251, OCNG 252, OCNG 291, OCNG 401, OCNG 410, OCNG 420, OCNG 430, OCNG 440, OCNG 451, OCNG 485, OCNG 489, and OCNG 491. At least 6 hours must be upper division courses in the minor. In addition, the department is initiating a 3+2 Program.

Oceanography is unusual as a graduate discipline. Whereas graduate programs in most disciplines lead to progressively greater degrees of specialization, oceanography as an interdisciplinary field takes graduates of biology, chemistry, geology, mathematics, physics, geophysics, meteorology or engineering and initially generalizes and broadens their education with a core of required courses. These core courses include the four subject areas of the oceanography program (biological, chemical, geological/geophysical and physical oceanography) and a seminar covering the state of the science. The student then refocuses in a particular subject area to pursue research and further study.

Effective study of oceanography requires a thorough undergraduate training in one of the pertinent undergraduate sciences, mathematics or engineering. During the undergraduate years, a student should consult with the oceanography faculty while enrolled in an appropriate undergraduate curriculum.
unofficial evaluation

Area: Work Not Applied - Met

Description: See advisor for acceptable substitutions.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Courses</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ATMOSPHERIC SCIENCE</td>
<td>201</td>
<td>3.000</td>
<td>C</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FUNCTNS TRIG &amp; LRK 5TH</td>
<td>150</td>
<td>4.000</td>
<td>B</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OCEANOGRAPHY</td>
<td>251</td>
<td>3.000</td>
<td>A</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OCEANOGRAPHY LAB</td>
<td>252</td>
<td>1.000</td>
<td>A</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MARINE POLLUTION</td>
<td>350</td>
<td>3.000</td>
<td>R</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>INTERDISCIPLINARY</td>
<td>401</td>
<td>3.000</td>
<td>R</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>INTRO TO CHEMICAL PROD</td>
<td>440</td>
<td>1.000</td>
<td>B</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits and GPA: 18.000 \( \sum \) 3.281

unofficial evaluation

Area: Oceanographic Minor (15.000 credits) - Not Met

Description: A minimum GPA of 2.0 must be maintained in order to pursue an OCEG Minor and at least 6 hours of minor requirements must be taken at the 300-400 level.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Courses</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OCEG Minor 15cr</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select from OCEG 251, 252, 401, 410, 420, 430, 440, 485, 489, 491.

unofficial evaluation

Area: University Writing Requirement - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Courses</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>WRTING</td>
<td>OCEG 311</td>
<td>WRITING</td>
<td>1.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits and GPA: 1.000 \( \sum \) 0.00

unofficial evaluation

Area: Int'l & Cult Diversity - Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Courses</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>GEG 302</td>
<td>GEG 302</td>
<td>VILLAG</td>
<td>3.000</td>
<td></td>
<td>A</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>HORTICULTURE</td>
<td>335</td>
<td>3.000</td>
<td>R</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits and GPA: 6.000 \( \sum \) 4.905

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp_P.VerifyDispEvalViewOption