**Ogden College of Science and Engineering**

**Office of the Dean**

**745-4449**

**REPORT TO THE UNIVERSITY CURRICULUM COMMITTEE**

Date: March 9, 2011

The Ogden College of Science and Engineering submits the following items for consideration:

1. New Business

|  |  |
| --- | --- |
| **Type of item** | **Description of Item & Contact Information** |
| Consent | **Revise Course Prerequisites**  GEOG 310, Global Hydrology  Contact: Jason Polk, [jason.polk@wku.edu](mailto:jason.polk@wku.edu), x55105 |
| Consent | **Revise Course Prerequisites**  GEOL 310, Global Hydrology  Contact: Jason Polk, [jason.polk@wku.edu](mailto:jason.polk@wku.edu), x55105 |
| Consent | **Revise Course Prerequisites/Corequisites**  CHEM 314, Introduction to Organic Chemistry  Contact: Kevin Williams, [kevin.williams@wku.edu](mailto:kevin.williams@wku.edu), x58899 |
| Consent | **Revise Course Prerequisites/Corequisites**  MATH 307, Introduction to Linear Algebra  Contact: Mikhail Khenner, [Mikhail.khenner@wku.edu](mailto:Mikhail.khenner@wku.edu), x52797 |
| Consent | **Revise Course Title**  AMS 217, Materials for Manufacturing  Contact: Bryan Reaka, [bryan.reaka@wku.edu](mailto:bryan.reaka@wku.edu), x57032 |

Proposal Date: February 16, 2011

**Ogden College of Science and Engineering**

**Department of Geography and Geology**

**Proposal to Revise Course Prerequisites**

**(Consent Item)**

Contact Person: Jason Polk ([Jason.polk@wku.edu](mailto:Jason.polk@wku.edu)) 5-5105

**1. Identification of course:**

* 1. Course prefix (subject area) and number: GEOG 310
  2. Course title: Global Hydrology
  3. Credit hours: 3

**2. Current prerequisites:** None

**3. Proposed prerequisites:** GEOG 100, or GEOL 102, or GEOL 111

**4. Rationale for the revision of prerequisites:** A new course (GEOG 461) has been

developed to support a new concentration in karst geoscience within the geography

#674 major. This course requires GEOG 310 (or GEOG 459) and 420 as prerequisites.

As these courses are designed to be taken in sequence, it is appropriate that GEOG 310

has a foundational earth science course as a prerequisite, thus maintaining an

appropriate sequence of material.

**5. Effect on completion of major/minor sequence:** None

**6. Proposed term for implementation:** Fall 2011

**7. Dates of prior committee approvals:**

Department of Geography and Geology \_\_\_\_2/23/2011\_\_\_\_\_\_

Ogden College Curriculum Committee \_\_\_\_3/3/2011\_\_\_\_\_\_\_

Undergraduate Curriculum Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

University Senate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Attachment: Course Inventory Form**

Proposal Date: February 16, 2011

**Ogden College of Science and Engineering**

**Department of Geography and Geology**

**Proposal to Revise Course Prerequisites**

**(Consent Item)**

Contact Person: Jason Polk ([Jason.polk@wku.edu](mailto:Jason.polk@wku.edu)) 5-5105

**1. Identification of course:**

* 1. Course prefix (subject area) and number: GEOL 310
  2. Course title: Global Hydrology
  3. Credit hours: 3

**2. Current prerequisites:** None

**3. Proposed prerequisites:** GEOG 100, or GEOL 102, or GEOL 111

**4. Rationale for the revision of prerequisites:** A new course (GEOG 461) has been

developed to support a new concentration in karst geoscience within the geography

#674 major. This course requires GEOG 310 (cross-listed with GEOL 310) or GEOG

459, and GEOG or GEOL 420, as prerequisites. As these courses are designed to be taken

in sequence, it is appropriate that GEOL 310 has a foundational earth science course as a

prerequisite, thus maintaining an appropriate sequence of material.

**5. Effect on completion of major/minor sequence:** None

**6. Proposed term for implementation:** Fall 2011

**7. Dates of prior committee approvals:**

Department of Geography and Geology \_\_\_\_2/23/2011\_\_\_\_\_\_

Ogden College Curriculum Committee \_\_\_\_3/3/2011\_\_\_\_\_\_\_\_

Undergraduate Curriculum Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

University Senate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Attachment: Course Inventory Form**

Proposal Date: 2/16/2011

**Ogden College of Science and Engineering**

**Department of Chemistry**

**Proposal to Revise Course Prerequisites/Corequisites**

**(Consent Item)**

Contact Person: Kevin Williams, [kevin.williams@wku.edu](mailto:kevin.williams@wku.edu), 5-8899

**1. Identification of course:**

* 1. Course prefix (subject area) and number: CHEM 314
  2. Course title: Introduction to Organic Chemistry
  3. Credit hours: 5

**2. Current prerequisites:** CHEM 222/223

**3. Proposed prerequisites:** CHEM 222/223 or permission of instructor.

**4. Rationale for the revision of prerequisites/corequisites/special requirements:** There may be special circumstances (for example, students interested in a proposed nutritional chemistry minor) in which students who would like to take a course in organic chemistry have taken a non-major focused chemistry sequence such as CHEM 105/106/107/108 or CHEM 109. Revision of the prerequisite will indicate to these students that enrollment in CHEM 314 will be possible on a case-by-case consideration.

**5. Effect on completion of major/minor sequence:** The chemistry major and minor sequences are unaffected, although this adds a possible elective to the nutritional chemistry minor that is being planned.

**6. Proposed term for implementation :** Fall 2011

**7. Dates of prior committee approvals:**

Chemistry Department: \_\_February 18, 2011\_\_

Ogden College Curriculum Committee \_\_March 3, 2011\_\_\_\_\_

Professional Education Council \_\_March 16, 2011\_\_\_\_

Undergraduate Curriculum Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

University Senate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Attachment: Course Inventory Form**

Proposal Date: 01/17/2011

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Revise Course Prerequisites/Co requisites**

**(Consent Item)**

Contact Person: Mikhail Khenner, [mikhail.khenner@wku.edu](mailto:mikhail.khenner@wku.edu), 745-2797

**1. Identification of course:**

* 1. Course prefix (subject area) and number: MATH 307
  2. Course title: Introduction to Linear Algebra
  3. Credit hours: 3

**2. Current prerequisites/corequisites/special requirements:** MATH 137

**3. Proposed prerequisites/corequisites/special requirements:**

Prerequisite:MATH 136 and either EE 180 or Phil 215, all with a grade of C or better

**4. Rationale for the revision of prerequisites/corequisites/special requirements:**

The subject content of MATH 137 (Calculus II) is not relevant to the content of MATH

307, and the mathematical concepts and skills that students acquire in MATH 137 do not

contribute to success in MATH 307. By changing the prerequisite from MATH 137 to

MATH 136 (Calculus I) with a grade of C or better, students will be able to take MATH 307 and MATH 137 concurrently. Moreover, this change of prerequisite will allow students to enroll in two mathematics courses one semester earlier than is currently the case. PHIL 215 (Elementary Logic) or EE 180 (Digital Circuits) provides solid background in logic that the students in mathematics currently lack. The ability to construct formal logical arguments is very helpful in MATH 307. The PHIL 215 or EE 180 will also improve the general mathematical maturity of the students taking MATH 307.

**5. Effect on completion of major/minor sequence:** None

**6. Proposed term for implementation:** Fall 2011

**7. Dates of prior committee approvals:**

Mathematics and Computer Science Department \_\_2-18-11\_\_\_\_\_\_\_\_\_\_

Ogden College Curriculum Committee \_\_3-3-11\_\_\_\_\_\_\_\_\_\_\_

Professional Education Council \_\_3-16-11\_\_\_\_\_\_\_\_\_\_

Undergraduate Curriculum Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

University Senate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Attachment: Course Inventory Form**

Proposal Date: 2-3-2011

**Ogden College of Science and Engineering**

**Department of Architectural and Manufacturing Sciences**

**Proposal to Revise Course Title**

**(Consent Item)**

Contact Person: Bryan Reaka, [bryan.reaka@wku.edu](mailto:bryan.reaka@wku.edu), 745.7032

**1. Identification of course:**

* 1. Current course prefix (subject area) and number: AMS 217
  2. Current course title: Materials for Manufacturing
  3. Credit hours: 3

**2. Proposed course title:** Industrial Materials

**3. Proposed abbreviated course title:**

Industrial Materials

**4. Rationale for the revision of course title:**

Better reflects the cross disciplinary aspect of the content for the course.

**5. Proposed term for implementation:** Fall 2011

**6. Dates of prior committee approvals:**

AMSDepartment/Division: \_\_\_\_\_\_\_\_\_2-4-11\_\_\_\_

OCSE Curriculum Committee \_\_\_\_\_\_\_\_\_3-3-11\_\_\_\_

Undergraduate Curriculum Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

University Senate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Attachment: Course Inventory Form**