**Ogden College of Science and Engineering**

**Office of the Dean**

**745-4449**

**REPORT TO THE UNIVERSITY CURRICULUM COMMITTEE**

Date: April 12, 2012

The Ogden College of Science and Engineering submits the following action items for consideration at the April 2012 UCC meeting:

1. New Business

|  |  |
| --- | --- |
| **Type of item** | **Description of Item & Contact Information** |
| Action | **Make Multiple Revisions to a Course**  BIOL 199, Introduction to Research Experience  Contact: Scott Grubbs, [scott.grubbs@wku.edu](mailto:scott.grubbs@wku.edu), x55048 |
| Action | **Make Multiple Revisions to a Course**  CHEM 450, Physical Chemistry I  Contact: Jeremy Maddox, [jeremy.maddox@wku.edu](mailto:jeremy.maddox@wku.edu), x58725 |

Proposal Date: 6 March 2012

**Ogden College of Science and Engineering**

**Department of Biology**

**Proposal to Make Multiple Revisions to a Course**

**(Action Item)**

Contact Person: Scott Grubbs, [scott.grubbs@wku.edu](mailto:scott.grubbs@wku.edu), 745-5048

**1. Identification of course:**

* 1. Current course prefix (subject area) and number: BIOL 199
  2. Course title: Introduction to Research Experience
  3. Credit hours: 1

**2. Revise course title:**

* 1. Current course title: NA
  2. Proposed course title: NA
  3. Proposed abbreviated title: NA
  4. Rationale for revision of course title: NA

**3. Revise course number:**

* 1. Current course number: NA
  2. Proposed course number: NA
  3. Rationale for revision of course number: NA

**4. Revise course prerequisites/corequisites/special requirements:**

4.1 Current prerequisites: Restricted to majors in BIOL 714 – Investigative Biotechnology

4.2 Proposed prerequisites/corequisites/special requirements: None

4.3 Rationale for revision of course prerequisites/corequisites/special requirements: Because the Investigative Biotechnology major, Program Number 714, will go into suspended status, the current prerequisite is no longer attainable. The Biology Department wishes, however, to retain the course and make available to all Biology majors and minors.

4.4 Effect on completion of major/minor sequence: Due to the fact that this class is not required for the major or the minor and is only one credit hour, it should have a negligible effect the completion of the major/minor.

**5. Revise course catalog listing:**

* 1. Current course catalog listing: Introduces students to research through laboratory rotations. Each student will participate in two different rotations with two different faculty members. (Grading: Pass/Fail)
  2. Proposed course catalog listing: Introduces students to biological research through hands-on, small group sessions. Each student will learn research techniques in modern biology with a focus on ethics and critical thinking. (Grading: Pass/Fail)
  3. Rationale for revision of course catalog listing: In expanding access to this class it must be broad enough to meet the needs of students in all areas of biology, including clinical, field, and laboratory research.

**6. Revise course credit hours:**

* 1. Current course credit hours: NA
  2. Proposed course credit hours: NA
  3. Rationale for revision of course credit hours NA:

**7. Proposed term for implementation:** Fall 2012

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

Department of Biology: March 30, 2012

OCSE Curriculum Committee: April 5, 2012

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

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

**Attachment: Course Inventory Form**

Proposal Date: 2/20/2012

**Ogden College of Science and Engineering**

**Department of Chemistry**

**Proposal to Make Multiple Revisions to a Course**

**(Action Item)**

Contact Person: Jeremy B. Maddox, [Jeremy.maddox@wku.edu](mailto:Jeremy.maddox@wku.edu), 5-8725

**1. Identification of course:**

* 1. Current course prefix (subject area) and number: CHEM 450
  2. Course title: Physical Chemistry I
  3. Credit hours: 3

**2. Revise course title: N/A**

* 1. Current course title:
  2. Proposed course title:
  3. Proposed abbreviated title:
  4. Rationale for revision of course title:

**3. Revise course number: N/A**

* 1. Current course number:
  2. Proposed course number:
  3. Rationale for revision of course number:

**4. Revise course prerequisites/corequisites/special requirements:**

4.1 Current prerequisites/corequisites/special requirements: (indicate which)

Prerequisites: CHEM 330 and PHYS 270

Corequisites: CHEM 451, MATH 227

4.2 Proposed prerequisites/corequisites/special requirements:

Prerequisites: CHEM 330 and PHYS 265

Corequisites: CHEM 451 and MATH 137

4.3 Rationale for revision of course prerequisites/corequisites/special requirements:

PHYS 270 has been deleted some time ago. The prerequisite for CHEM 450 needs to be changed to the appropriate course, which is PHYS 265.

MATH 227 has recently been changed to MATH 137. The corequisite for CHEM 450 needs to be updated to reflect this change.

4.4 Effect on completion of major/minor sequence: N/A

**5. Revise course catalog listing:**

* 1. Current course catalog listing:

A study of theoretical chemistry, including such topics such as gaseous state, solid state, liquid state, thermodynamics, thermochemistry and phase and chemical equilibria.

* 1. Proposed course catalog listing:

A detailed study of the fundamental principles and models describing the physical and chemical properties of matter at both the microscopic and macroscopic levels. Selected topics may include thermodynamics and equilibria, the kinetic theory of gases, transport properties, chemical kinetics, introductory quantum mechanics, spectroscopy, statistical thermodynamics, and interdisciplinary applications.

* 1. Rationale for revision of course catalog listing:

The primary rationale behind this change in the course catalog is to provide a more detailed description of the course content to the student body. A secondary rationale is to make the course catalog description more consistent with guidelines established by the American Chemical Society’s Committee on Professional Training.

**6. Revise course credit hours: N/A**

* 1. Current course credit hours:
  2. Proposed course credit hours:
  3. Rationale for revision of course credit hours:

**7. Proposed term for implementation: Fall 2012**

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

ChemistryDepartment/Division: \_\_\_3/23/12\_\_\_\_\_\_\_\_\_\_

OCSE Curriculum Committee \_\_\_4/05/12\_\_\_\_\_\_\_\_\_\_

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

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

**Attachment: Course Inventory Form**