**Ogden College of Science and Engineering**

**Office of the Dean**

**745-4449**

**REPORT TO THE UNIVERSITY CURRICULUM COMMITTEE**

Date: March 15, 2012

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

1. New Business

|  |  |
| --- | --- |
| **Type of item** | **Description of Item & Contact Information** |
| Consent | **Delete a Course**  MATH 106, AC Support for MATH 116E  Contact: Robin Ayers, [robin.ayers@wku.edu](mailto:robin.ayers@wku.edu), x55009 |
| Consent | **Delete a Course**  MATH 116E, College Algebra  Contact: Robin Ayers, [robin.ayers@wku.edu](mailto:robin.ayers@wku.edu), x55009 |
| Consent | **Delete a Course**  MATH 211, Math for Elementary Teachers I  Contact: Hope Marchionda, [hope.marchionda@wku.edu](mailto:hope.marchionda@wku.edu), x52961 |
| Consent | **Delete a Course**  MATH 212, Math for Elementary Teachers II  Contact: Hope Marchionda, [hope.marchionda@wku.edu](mailto:hope.marchionda@wku.edu), x52961 |
| Consent | **Delete a Course**  MATH 122, Calculus of a Single Variable  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Delete a Course**  CS 244, Lab Computer Science I  Contact: Zhonghang Xia, [zhonghang.xia@wku.edu](mailto:zhonghang.xia@wku.edu), x56459 |
| Consent | **Revise Course Prerequisites/Corequisites**  MATH 116, College Algebra  Contact: Robin Ayers, [robin.ayers@wku.edu](mailto:robin.ayers@wku.edu), x55009 |
| Consent | **Revise Course Catalog**  MATH 331, Differential Equations  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |

Proposal Date: Feb. 10, 2012

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Delete a Course**

**(Consent Item)**

Contact Person: Robin Ayers, robin.ayers@wku.edu, (270) 745-5009

**1. Identification of course:**

* 1. Current course prefix (subject area) and number: MATH 106
  2. Course title: AC support for MATH 116E
  3. Credit hours: NA

**2. Rationale for the course deletion:**

MATH 116E and MATH 106 are no longer needed due to the change in prerequisites for MATH 116.

MATH 106 has been a mandated academic support class for students enrolled in the enhanced version of College Algebra, MATH 116E, which is also being deleted. Academic support for students enrolled in MATH 116 will still be available in the Mathematics Tutoring Laboratory, which is open five days per week from early morning until late afternoon. Instructors of MATH 116 may require students needing assistance to spend a stipulated amount of time each week receiving academic support outside of the scheduled class meeting time, based upon the needs of each particular student.

**3. Effect of course deletion on programs or other departments, if known:**

None

**4. Proposed term for implementation:**

Fall 2012

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

Department of Mathematics and Computer Science \_\_Feb. 10, 2012 \_\_\_\_

OCSE Curriculum Committee \_\_March 1, 2012\_\_\_\_

General Education Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

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

**Attachment: Course Inventory Form**

Proposal Date: Feb. 10, 2012

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Delete a Course**

**(Consent Item)**

Contact Person: Robin Ayers, robin.ayers@wku.edu, (270) 745-5009

**1. Identification of course:**

* 1. Current course prefix (subject area) and number: MATH 116E
  2. Course title: College Algebra
  3. Credit hours: 3 hours

**2. Rationale for the course deletion:**

MATH 116E and its accompanying academic support class, MATH 106, are no longer needed due to the change in prerequisites for MATH 116.

Students enrolled in MATH 116E, the enhanced version of MATH 116, had been required to simultaneously enroll in MATH 106, an academic support class that is also being deleted. Academic support for students enrolled in MATH 116 will still be available in the Mathematics Tutoring Laboratory, which is open five days per week from early morning until late afternoon. Instructors of MATH 116 may require students needing assistance to spend a stipulated amount of time each week receiving academic support outside of the scheduled class meeting time, based upon the needs of each particular student.

**3. Effect of course deletion on programs or other departments, if known:**

None

**4. Proposed term for implementation:**

Fall 2012

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

Department of Mathematics and Computer Science \_\_Feb. 10, 2012 \_\_\_\_

OCSE Curriculum Committee \_\_March 1, 2012\_\_\_\_

General Education Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

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

**Attachment: Course Inventory Form**

Proposal Date: January 18, 2012

**Ogden College of Science and Engineering**

**Department of Mathematics & Computer Science**

**Proposal to Delete a Course**

**(Consent Item)**

Contact Person: Hope Marchionda, [hope.marchionda@wku.edu](mailto:hope.marchionda@wku.edu), 745-2961

**1. Identification of course:**

* 1. Current course prefix (subject area) and number: MATH 211
  2. Course title: Math for Elementary Teachers I
  3. Credit hours: 3

**2. Rationale for the course deletion:**

Math 211 was part of a two-course sequence required for elementary, middle grades, and exceptional education majors. This course sequence, Math 211 and Math 212, has been replaced with a three course sequence (Math 205, Math 206, and Math 308). As a result, Math 211 is no longer offered.

**3. Effect of course deletion on programs or other departments, if known:**

None

**4. Proposed term for implementation:**

Fall 2012

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

Mathematics & Computer Science Department: \_1/27/2012\_\_\_\_\_\_\_\_\_

Ogden Curriculum Committee \_3/01/2012\_\_\_\_\_\_\_\_\_

Professional Education Council \_3/14/2012\_\_\_\_\_\_\_\_\_

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

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

**Attachment: Course Inventory Form**

Proposal Date: January 18, 2012

**Ogden College of Science and Engineering**

**Department of Mathematics & Computer Science**

**Proposal to Delete a Course**

**(Consent Item)**

Contact Person: Hope Marchionda, [hope.marchionda@wku.edu](mailto:hope.marchionda@wku.edu), 745-2961

**1. Identification of course:**

* 1. Current course prefix (subject area) and number: MATH 212
  2. Course title: Math for Elementary Teachers II
  3. Credit hours: 3

**2. Rationale for the course deletion:**

Math 212 was part of a two-course sequence required for elementary, middle grades, and exceptional education majors. This course sequence, Math 211 and Math 212, has been replaced with a three course sequence (Math 205, Math 206, and Math 308). As a result, Math 212 is no longer offered.

**3. Effect of course deletion on programs or other departments, if known:**

None

**4. Proposed term for implementation:**

Fall 2012

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

Mathematics & Computer Science Department: \_1-27-2012\_\_\_\_\_\_\_\_\_

Ogden Curriculum Committee \_3/01/2012\_\_\_\_\_\_\_\_\_

Professional Education Council \_3/14/2012\_\_\_\_\_\_\_\_\_

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

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

**Attachment: Course Inventory Form**

Proposal Date: 01/19/2012

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Delete a Course**

**(Consent Item)**

Contact Person: Nezam Iraniparast, email: nezam.iraniparast@wku.edu, phone: 56218

**1. Identification of course:**

* 1. Current course prefix (subject area) and number: MATH 122
  2. Course title: Calculus of a Single Variable I
  3. Credit hours: 3

**2. Rationale for the course deletion:**

MATH 122 was the first of a 3-semester calculus sequence (MATH122-132-232) that was equivalent to our previous MATH 126-227 calculus sequence. Two of the courses in the sequence (MATH 132 and MATH 232) have already been deleted. Since we no longer offer MATH 122, it should be deleted as well. Our current calculus sequence is MATH 136-137.

**3. Effect of course deletion on programs or other departments, if known:** None

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

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

Department of Mathematics and Computer Science: \_1/27/2012\_\_\_\_\_\_\_\_\_

OSCS Curriculum Committee \_3/01/2012\_\_\_\_\_\_\_\_\_

Professional Education Council (if applicable) \_3/14/2012\_\_\_\_\_\_\_\_\_

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

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

**Attachment: Course Inventory Form**

Proposal Date: January 24, 2012

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Delete a Course**

**(Consent Item)**

Contact Person: Zhonghang Xia, [zhonghang.xia@wku.edu](mailto:zhonghang.xia@wku.edu), 745-6459

**1. Identification of course:**

* 1. Current course prefix (subject area) and number: CS 244
  2. Course title: Lab Computer Science I
  3. Credit hours: 1

**2. Rationale for the course deletion:**

CS 244 was the lab component of CS 240 (a 3-hour course) whose number was changed to CS 180 in 2010. At that time, the content of CS 244 was incorporated into CS 180 (a 4-hour course); therefore, CS 244 is no longer needed.

**3. Effect of course deletion on programs or other departments, if known:**

N/A

**4. Proposed term for implementation:**

Fall 2012

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

Department of Math and CS \_\_\_\_\_Feb. 7, 2012\_\_\_

Ogden College Curriculum Committee \_\_\_March 14, 2012\_\_

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

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

**Attachment: Course Inventory Form**

Proposal Date: Feb. 10, 2012

**Ogden College of Science and Engineering**

**Department of Mathematics & Computer Science**

**Proposal to Revise Course Prerequisites/Corequisites**

**(Consent Item)**

Contact Person: Robin Ayers, [robin.ayers@wku.edu](mailto:robin.ayers@wku.edu), 270-745-5009

**1. Identification of course:**

* 1. Course prefix (subject area) and number: MATH 116
  2. Course title: College Algebra
  3. Credit hours: 3 hours

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

Prerequisites: High school Algebra I and II and satisfactory score on Math Placement Exam; or DMA 096C with a grade of C or better. Student must enroll in MATH 116E if his/her DMA 096C grade was a C, or previous MATH 116 grade was D, F, or W, or Math ACT and MPE scores indicate need for enhanced version. Corequisite for MATH 116E: MATH 106 Academic Support for MATH 116E. Special Requirement: Students who withdraw from MATH 106 must also withdraw from MATH 116E.

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

Prerequisites: Math ACT score of 22 or better **or** a score of 14 or better on the WKU Math Placement Exam **or** a score of 14 or better on the KYOTE **or** a score of 50 or better on the COMPASS (College Algebra domain) **or** DMA 096C with a grade of C or better.

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

The Kentucky Council on Post-Secondary Education (CPE) has mandated that students with Math ACT scores of 22 or better be permitted to enroll in College Algebra. The Kentucky Online Testing Program (KYOTE) is an online placement and testing system endorsed by the CPE. COMPASS is a computer-adaptive college placement test offered throughout the United States. WKU is now honoring scores on those placement tests in addition to the WKU Math Placement Exam (MPE). Specific scores on each of these tests are now included in the prerequisites in order to provide more useful information to students and advisors.

All references to MATH 116E (and MATH 106) have been omitted from the prerequisites because that enhanced version of College Algebra is no longer being offered.

**5. Effect on completion of major/minor sequence:** Not applicable

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

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

Department of Mathematics and Computer Science \_\_\_\_Feb. 10, 2012\_\_\_

OCSE Curriculum Committee \_\_\_\_March 1, 2012\_\_

General Education Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

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

**Attachment: Course Inventory Form**

Proposal Date:01/19/2012

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Revise Course Catalog Listing**

**(Consent Item)**

Contact Person: Nezam Iraniparast, email: nezam.iraniparast@wku.edu, phone: 56218

**1. Identification of course:**

* 1. Course prefix (subject area) and number: MATH 331
  2. Course title: DIFFERENTIAL EQUATIONS
  3. Credit hours: 3

**2. Current course catalog listing:** Methods of solution of differential equations, existence and nature of solutions, systems of differential equations, applications, and numerical solutions.

**3. Proposed course catalog listing:** Methods of solution of differential equations, existence and nature of solutions, Laplace transform method, infinite series and numerical solutions, and applications.

**4. Rationale for revision of the course catalog listing:**

The subject of “systems of differential equations” is already covered in the newly created course MATH 370. This topic should be replaced with the “infinite series solutions” in MATH 331. For emphasis, we mention the Laplace transform method specifically, even though it could be envisioned as just another method in the general framework of “methods of solution”.

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

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

Department of Mathematics and Computer Science: \_\_1-27-2012\_\_\_\_\_\_\_

OSCS Curriculum Committee \_\_ 3/01/12\_\_\_\_\_\_\_\_\_

Professional Education Council (if applicable \_\_3/14/12\_\_\_\_\_\_\_\_\_\_

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

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

**Attachment: Course Inventory Form**