**Ogden College of Science and Engineering**

**Office of the Dean**

**745-4449**

**REPORT TO THE UNIVERSITY CURRICULUM COMMITTEE**

Date: January 10, 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 | **Suspend a Course**BIOL 389, Cooperative Education in Biology IIContact: Scott A. Grubbs, scott.grubbs@wku.edu, x55048 |
| Consent | **Suspend a Course**BIOL 469, Cooperative Education in Biology IIIContact: Scott A. Grubbs, scott.grubbs@wku.edu, x55048 |
| Consent | **Revise Course Corequisites**AMS 261, Construction Methods and MaterialsContact: Laura Dotson, laura.dotson@wku.edu, x57083 |
| Consent | **Revise Course Corequisites**AMS 262, Construction LaboratoryContact: Laura Dotson, laura.dotson@wku.edu, x57083 |
| Consent | **Revise Course Prerequisites**CS 239, Problem Solving with Computational TechniquesContact: Zhonghang Xia, zhonghang.xia@wku.edu, x56459 |
| Consent | **Revise Course Prerequisites**CS 251, Introduction to DatabaseContact: Zhonghang Xia, zhonghang.xia@wku.edu, x56459 |
| Consent | **Revise Course Prerequisites**CS 270, Introduction to Web ProgrammingContact: Zhonghang Xia, zhonghang.xia@wku.edu, x56459 |
| Consent | **Revise Course Prerequisites**CS 325, Computer Systems Hardware and SoftwareContact: Zhonghang Xia, zhonghang.xia@wku.edu, x56459 |
| Consent | **Revise Course Prerequisites**CS 370, XML and Web ProgrammingContact: Zhonghang Xia, zhonghang.xia@wku.edu, x56459 |
| Consent | **Revise Course Prerequisites**CS 381, Intro to Computer NetworksContact: Zhonghang Xia, zhonghang.xia@wku.edu, x56459 |
| Consent | **Revise Course Prerequisites**CS 450, Computer NetworksContact: Zhonghang Xia, zhonghang.xia@wku.edu, x56459 |
| Consent | **Revise Course Prerequisites**CS 496, Senior Project and Professional PracticeContact: Zhonghang Xia, zhonghang.xia@wku.edu, x56459 |
| Consent | **Revise Course Prerequisites/Corequisites**MATH 304, Functions, Applications and ExplorationsContact: Vivian Moody, vivian.moody@wku.edu, x56209 |
| Consent | **Revise Course Prerequisites/Corequisites**MATH 421, Problem Solving for Secondary TeachersContact: Vivian Moody, vivian.moody@wku.edu, x56209 |
| Consent | **Revise Course Prerequisites/Corequisites**MATH 423, Geometry IIContact: Vivian Moody, vivian.moody@wku.edu, x56209 |
| Consent | **Revise Course Prerequisites/Corequisites**PHYS 316, Computational PhysicsContact: Alexander Barzilov, alexander.barzilov@wku.edu, x56194 |
| Consent | **Revise Course Prerequisites/Corequisites**PHYS 318, Data Acquisition Using LabVIEWContact: Doug Harper, doug.harper@wku.edu, x56194 |

Proposal Date: 7 September 2011

**Ogden College of Science and Engineering**

**Department of Biology**

**Proposal to Suspend a Course**

**(Consent Item)**

Contact Person: Scott A. Grubbs, scott.grubbs@wku.edu, 745-5048

**1. Identification of course:**

* 1. Current course prefix (subject area) and number: BIOL 389
	2. Course title: Cooperative Education in Biology II
	3. Credit hours: 3

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

The current prerequisites for BIOL 369 (= Sophomore or junior standing) and BIOL 389 (Junior standing) overlap, providing students with little guidance or understanding of which co-op course in which to enroll. The catalog descriptions are also nearly identical with no logical or historical differentiation between these two courses. Students seeking a co-op/internship experience can do so solely through BIOL 369, making BIOL 389 duplicative and unnecessary.

**3. Effect of course suspension on programs or other departments, if known:** None. This course is not required for any academic program across the university.

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

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

Department of Biology: \_\_September 2, 2011\_\_

 OCSE Curriculum Committee: \_\_December 1, 2011\_\_

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

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

**Attachment: Course Inventory Form**

Proposal Date: 7 September 2011

**Ogden College of Science and Engineering**

**Department of Biology**

**Proposal to Suspend a Course**

**(Consent Item)**

Contact Person: Scott Grubbs, scott.grubbs@wku.edu, 745-5048

**1. Identification of course:**

* 1. Current course prefix (subject area) and number: BIOL 469
	2. Course title: Cooperative Education in Biology III
	3. Credit hours: 3

**2. Rationale for the course suspension:** The two Biology majors, reference number 617 (= 36 hour major) and reference number 525 (= 48 hour major), allow for a maximum of three and six credits total, respectively, of co-op/internship coursework. Additionally, the Biology minor allows for only a maximum of three credits (369) of co-op/internship coursework. BIOL 469 has not been offered in at least 10 years and does not have an active place in the Biology curriculum.

**3. Effect of course suspension on programs or other departments, if known:** None. This course is not required for any academic program across the university.

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

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

Department of Biology: \_\_September 2, 2011\_\_

 OCSE Curriculum Committee: \_\_December 1, 2011\_\_

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

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

**Attachment: Course Inventory Form**

Proposal Date: 9/23/2011

**Ogden College of Science and Engineering**

**Department of Architectural & Manufacturing Sciences**

**Proposal to Revise Course Corequisites**

**(Consent Item)**

Contact Person: Laura Dotson, laura.dotson@wku.edu, 745-7083

**1. Identification of course:**

* 1. Course prefix (subject area) and number: AMS 261
	2. Course title: Construction Methods and Materials
	3. Credit hours: 3.0

**2. Current corequisites:**

 Corequisite : AMS 262

**3. Proposed corequisites:**

 None

**4. Rationale for the revision of corequisites:**

AMS 262 is complementary to AMS 261, but it does not need to be a corequisite.

**5. Effect on completion of major/minor sequence:**

 N/A

**6. Proposed term for implementation :**

 Spring 2012

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

 **AMS** Department/Division: 23 September 2011\_\_\_

 Ogden Curriculum Committee December 1, 2011\_\_\_\_

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

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

**Attachment: Course Inventory Form**

Proposal Date: 9/23/2011

**Ogden College of Science and Engineering**

**Department of Architectural & Manufacturing Sciences**

**Proposal to Revise Course Corequisites**

**(Consent Item)**

Contact Person: Laura Dotson, laura.dotson@wku.edu, 745-7083

**1. Identification of course:**

* 1. Course prefix (subject area) and number: AMS 262
	2. Course title: Construction Laboratory
	3. Credit hours: 1.0

**2. Current corequisites:**

 Corequisite : AMS 261

**3. Proposed corequisites:**

 None

**4. Rationale for the revision of corequisites:**

AMS 261 is complementary to AMS 262, but it does not need to be a corequisite.

**5. Effect on completion of major/minor sequence:**

 N/A

**6. Proposed term for implementation :**

 Spring 2012

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

 **AMS** Department/Division: 23 September 2011\_\_\_

 Ogden Curriculum Committee December 1, 2011\_\_\_\_

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

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

**Attachment: Course Inventory Form**

Proposal Date: 10/28/11

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Revise Course Prerequisites**

**(Consent Item)**

Contact Person: Zhonghang Xia, zhonghang.xia@wku.edu, 745-6459

**1. Identification of course:**

* 1. Course prefix (subject area) and number: CS 239
	2. Course title: Problem Solving with Computational Techniques
	3. Credit hours: 3

**2. Current prerequisites:** Math 117 or higher

**3. Proposed prerequisites:** Math 117 with a grade of C or better or placement into a science calculus course.

**4. Rationale for the revision of prerequisites:**

In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in CS 239, the faculty proposes that the phrase “with a grade of C or better” be added to the current prerequisite.

**5. Effect on completion of major/minor sequence:**

None

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

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

Math and CS Department \_\_\_\_Nov. 10, 2011\_\_\_

Ogden College Curriculum Committee \_\_\_\_Dec. 1, 2011\_\_\_\_

 University Curriculum Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

**Attachment: Course Inventory Form**

Proposal Date: 10/28/11

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Revise Course Prerequisites**

**(Consent Item)**

Contact Person: Zhonghang Xia, zhonghang.xia@wku.edu, 745-6459

**1. Identification of course:**

* 1. Course prefix (subject area) and number: CS 251
	2. Course title: Introduction to Database
	3. Credit hours: 3

**2. Current prerequisites:** CS 181

**3. Proposed prerequisites:** CS 181 with a grade of C or better

**4. Rationale for the revision of prerequisites:**

Currently, students majoring in computer science are required to earn a grade of C or

better in each course listed as a prerequisite for another computer course. In order to

provide a uniform standard for prerequisites and to improve the chances of success for all

students enrolling in CS 251, the faculty proposes that the phrase “with a grade of C or

better” be added to the current prerequisite.

**5. Effect on completion of major/minor sequence:**

None.

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

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

Math and CS Department \_\_\_Nov. 10, 2011\_\_\_\_

 Ogden College Curriculum Committee \_\_\_Dec. 1, 2011\_\_\_\_\_

 University Curriculum Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

**Attachment: Course Inventory Form**

Proposal Date: 10/28/11

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Revise Course Prerequisites**

**(Consent Item)**

Contact Person: Zhonghang Xia, zhonghang.xia@wku.edu, 745-6459

**1. Identification of course:**

* 1. Course prefix (subject area) and number: CS 270
	2. Course title: Introduction to Web Programming
	3. Credit hours: 3

**2. Current prerequisites:** CS 146, or CS 170, or CS 180

**3. Proposed prerequisites:** CS 146, or CS 170, or CS 180 with grades of C or better

**4. Rationale for the revision of prerequisites:**

Currently, students majoring in computer science are required to earn a grade of C or

better in each course listed as a prerequisite for another computer course. In order to

provide a uniform standard for prerequisites and to improve the chances of success for all

students enrolling in CS 270, the faculty proposes that the phrase “with grades of C or

better” be added to the current prerequisite.

**5. Effect on completion of major/minor sequence:**

None.

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

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

Math and CS Department \_\_\_\_Nov. 10, 2011\_\_

 Ogden College Curriculum Committee \_\_\_\_Dec. 1, 2011\_\_\_

 University Curriculum Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

**Attachment: Course Inventory Form**

Proposal Date: 10/28/11

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Revise Course Prerequisites**

**(Consent Item)**

Contact Person: Zhonghang Xia, zhonghang.xia@wku.edu, 745-6459

**1. Identification of course:**

* 1. Course prefix (subject area) and number: CS 325
	2. Course title: Computer Systems Hardware and Software
	3. Credit hours: 3

**2. Current prerequisites:** CS 181

**3. Proposed prerequisites:** CS 181 with a grade of C or better

**4. Rationale for the revision of prerequisites:**

Currently, students majoring in computer science are required to earn a grade of C or

better in each course listed as a prerequisite for another computer course. In order to

provide a uniform standard for prerequisites and to improve the chances of success for all

students enrolling in CS 325, the faculty proposes that the phrase “with a grade of C or

better” be added to the current prerequisite.

**5. Effect on completion of major/minor sequence:**

None.

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

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

Math and CS Department \_\_\_Nov. 10, 2011\_\_\_

 Ogden College Curriculum Committee \_\_\_Dec. 1, 2011\_\_\_\_\_

 University Curriculum Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

**Attachment: Course Inventory Form**

Proposal Date: 10/28/11

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Revise Course Prerequisites**

**(Consent Item)**

Contact Person: Zhonghang Xia, zhonghang.xia@wku.edu, 745-6459

**1. Identification of course:**

* 1. Course prefix (subject area) and number: CS 370
	2. Course title: XML and Web Programming
	3. Credit hours: 3

**2. Current prerequisites:** CS 270 & CS 280

**3. Proposed prerequisites:** CS 270 and CS 280 with grades of C or better

**4. Rationale for the revision of prerequisites:**

Currently, students majoring in computer science are required to earn a grade of C or

better in each course listed as a prerequisite for another computer course. In order to

provide a uniform standard for prerequisites and to improve the chances of success for all

students enrolling in CS 370, the faculty proposes that the phrase “with grades of C or

 better” be added to the current prerequisite.

**5. Effect on completion of major/minor sequence:**

None.

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

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

Math and CS Department \_\_\_\_Nov. 10, 2011\_\_\_

 Ogden College Curriculum Committee \_\_\_\_Dec. 1, 2011\_\_\_\_

 University Curriculum Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

**Attachment: Course Inventory Form**

Proposal Date: 10/28/11

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Revise Course Prerequisites**

**(Consent Item)**

Contact Person: Zhonghang Xia, zhonghang.xia@wku.edu, 745-6459

**1. Identification of course:**

* 1. Course prefix (subject area) and number: CS 381
	2. Course title: Intro to Computer Networks
	3. Credit hours: 3

**2. Current prerequisites:** CS 280

**3. Proposed prerequisites:** CS 280 with a grade of C or better

**4. Rationale for the revision of prerequisites:**

Currently, students majoring in computer science are required to earn a grade of C or

better in each course listed as a prerequisite for another computer course. In order to

provide a uniform standard for prerequisites and to improve the chances of success for all

students enrolling in CS 381, the faculty proposes that the phrase “with a grade of C or

better” be added to the current prerequisite.

**5. Effect on completion of major/minor sequence:**

None.

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

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

Math and CS Department \_\_\_Nov. 10, 2011\_\_\_

 Ogden College Curriculum Committee \_\_\_Dec. 1, 2011\_\_\_\_

 University Curriculum Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

**Attachment: Course Inventory Form**

Proposal Date: 10/28/11

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Revise Course Prerequisites**

**(Consent Item)**

Contact Person: Zhonghang Xia, zhonghang.xia@wku.edu, 745-6459

**1. Identification of course:**

* 1. Course prefix (subject area) and number: CS 450
	2. Course title: Computer Networks
	3. Credit hours: 3

**2. Current prerequisites:** CS 381 & CS 325

**3. Proposed prerequisites:** CS 381 and CS 325 with grades of C or better

**4. Rationale for the revision of prerequisites:**

Currently, students majoring in computer science are required to earn a grade of C or

better in each course listed as a prerequisite for another computer course. In order to

provide a uniform standard for prerequisites and to improve the chances of success for all

students enrolling in CS 450, the faculty proposes that the phrase “with grades of C or

better” be added to the current prerequisite.

**5. Effect on completion of major/minor sequence:**

None.

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

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

Math and CS Department \_\_\_Nov. 10, 2011\_\_\_

 Ogden College Curriculum Committee \_\_\_Dec. 1, 2011\_\_\_\_

 University Curriculum Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

**Attachment: Course Inventory Form**

Proposal Date: 10/28/11

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Revise Course Prerequisites**

**(Consent Item)**

Contact Person: Zhonghang Xia, zhonghang.xia@wku.edu, 745-6459

**1. Identification of course:**

* 1. Course prefix (subject area) and number: CS 496
	2. Course title: Senior Project and Professional Practice
	3. Credit hours: 3

**2. Current prerequisites:** CS 360 & CS 396

**3. Proposed prerequisites:** CS 360 and CS 396 with grades of C or better

**4. Rationale for the revision of prerequisites:**

Currently, students majoring in computer science are required to earn a grade of C or

better in each course listed as a prerequisite for another computer course. In order to

provide a uniform standard for prerequisites and to improve the chances of success for all

students enrolling in CS 496, the faculty proposes that the phrase “with grades of C or

better” be added to the current prerequisite.

**5. Effect on completion of major/minor sequence:**

None.

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

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

Math and CS Department \_\_\_Nov. 10, 2011\_\_\_

 Ogden College Curriculum Committee \_\_\_Dec. 1, 2011\_\_\_\_

 University Curriculum Committee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

**Attachment: Course Inventory Form**

Proposal Date: 11/11/2011

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Revise Course Prerequisites/Corequisites**

**(Consent Item)**

Contact Person: Vivian Moody, vivian.moody@wku.edu, 745-6209

**1. Identification of course:**

* 1. Course prefix (subject area) and number: MATH 304
	2. Course title: Functions, Applications, and Explorations
	3. Credit hours: 3

**2. Current prerequisites:**

Math 136

**3. Proposed prerequisites:**

Math 136 with a grade of C or better, or permission of instructor.

**4. Rationale for the revision of prerequisites:**

Although it is stated in the undergraduate catalog that students must obtain a grade of C or better in all mathematics courses in the major, the mathematics education faculty would like to implement a better means of tracking students’ progress in the program. Further, it is extremely important to make it clear to all students that they may not continue in the program until satisfactory progress is made in each mathematics course in the major.

**5. Effect on completion of major/minor sequence:**

There is no effect on completion of major/minor sequence.

**6. Proposed term for implementation:**

Fall 2012

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

Department of Mathematics and Computer Science November 11, 2011

 OCSE Curriculum Committee December 1, 2011

 Professional Education Council December 14, 2011

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

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

**Attachment: Course Inventory Form**

Proposal Date: 11/11/2011

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Revise Course Prerequisites/Corequisites**

**(Consent Item)**

Contact Person: Vivian Moody, vivian.moody@wku.edu, 745-6209

**1. Identification of course:**

* 1. Course prefix (subject area) and number: MATH 421
	2. Course title: Problem Solving for Secondary Teachers
	3. Credit hours: 3

**2. Current prerequisites:**

Math 307 and 310; or Math 382 and 323; or permission of instructor.

**3. Proposed prerequisites:**

Math 307 and 310 both with grades of C or better; or Math 382 and 323 both with grades of C or better; or permission of instructor.

**4. Rationale for the revision of prerequisites:**

Although it is stated in the undergraduate catalog that students must obtain a grade of C or better in all mathematics courses in the major, the mathematics education faculty would like to implement a better means of tracking students’ progress in the program. Further, it is extremely important to make it clear to all students that they may not continue in the program until satisfactory progress is made in each mathematics course in the major.

**5. Effect on completion of major/minor sequence:**

There is no effect on completion of major/minor sequence.

**6. Proposed term for implementation:**

Fall 2012

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

Department of Mathematics and Computer Science November 11, 2011

 OCSE Curriculum Committee December 1, 2011

 Professional Education Council December 14, 2011

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

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

**Attachment: Course Inventory Form**

Proposal Date: 11/11/2011

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Revise Course Prerequisites/Corequisites**

**(Consent Item)**

Contact Person: Vivian Moody, vivian.moody@wku.edu, 745-6209

**1. Identification of course:**

* 1. Course prefix (subject area) and number: MATH 423
	2. Course title: Geometry II
	3. Credit hours: 3

**2. Current prerequisites:**

Math 323

**3. Proposed prerequisites:**

Math 323 with a grade of C or better, or permission of instructor.

**4. Rationale for the revision of prerequisites:**

Although it is stated in the undergraduate catalog that students must obtain a grade of C or better in all mathematics courses in the major, the mathematics education faculty would like to implement a better means of tracking students’ progress in the program. Further, it is extremely important to make it clear to all students that they may not continue in the program until satisfactory progress is made in each mathematics course in the major.

**5. Effect on completion of major/minor sequence:**

There is no effect on completion of major/minor sequence.

**6. Proposed term for implementation:**

Fall 2012

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

Department of Mathematics and Computer Science November 11, 2011

 OCSE Curriculum Committee December 1, 2011

 Professional Education Council December 14, 2011

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

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

**Attachment: Course Inventory Form**

Proposal Date: 11/28/2011

**Ogden College of Science and Engineering**

**Department of Physics and Astronomy**

**Proposal to Revise Course Prerequisites/Corequisites**

**(Consent Item)**

Contact Person: Alexander Barzilov, alexander.barzilov@wku.edu , 745-6194

**1. Identification of course:**

* 1. Course prefix (subject area) and number: PHYS 316
	2. Course title: Computational Physics
	3. Credit hours: 3.0

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

Prerequisite:PHYS 265 and CS 240.

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

 Prerequisite: PHYS 265 or permission of instructor.

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

The focus in PHYS 316 is on using computers to solve physics problems. We use VB.NET in the course as a tool to provide students with an easy-to-learn yet powerful programming language to facilitate making models of physical systems and processes with the computer. Students have been able to master the programming requirements of VB.NET necessary for PHYS 316 with or without any prior CS course.

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

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

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

Physics and Astronomy Department: \_\_\_\_11-16-2011\_\_\_\_\_\_

 Ogden College Curriculum Committee: \_\_\_\_12-01-11\_\_\_\_\_\_\_

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

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

**Attachment: Course Inventory Form**

Proposal Date: 11/30/2011

**Ogden College of Science and Engineering**

**Department of Physics and Astronomy**

**Proposal to Revise Course Prerequisites/Corequisites**

**(Consent Item)**

Contact Person: Doug Harper, doug.harper@wku.edu, 745-6194

**1. Identification of course:**

* 1. Course prefix (subject area) and number: PHYS 318
	2. Course title: Data Acquisition Using LabVIEW
	3. Credit hours: 3.0

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

Prerequisite:PHYS 265 and CS 240 or permission of instructor.

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

 Prerequisite: PHYS 265 or permission of instructor.

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

The focus in PHYS 318 is on using computers to perform data acquisition tasks. We use LabVIEW in the course as a tool to provide students with an easy-to-learn yet powerful programming language to facilitate making measurements with the computer. Students have been able to master the programming requirements of LabVIEW needed for PHYS 318 with or without any prior CS course.

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

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

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

Physics and Astronomy Department: \_\_\_\_\_11-16-2011\_\_\_\_\_

 Ogden College Curriculum Committee: \_\_\_\_\_12-01-11\_\_\_\_\_\_\_

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

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

**Attachment: Course Inventory Form**