**Ogden College of Science and Engineering**

**Office of the Dean**

**745-4449**

**REPORT TO THE UNIVERSITY CURRICULUM COMMITTEE**

Date: November 28, 2011

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

1. New Business

|  |  |
| --- | --- |
| **Type of item** | **Description of Item & Contact Information** |
| Information | **Create a Temporary Course**  ME332, Fluid Mechanics Laboratory  Contact: Joel Lenoir, [joel.lenoir@wku.edu](mailto:joel.lenoir@wku.edu), x56858 |
| Consent | **Revise Course Prerequisites**  MATH 305, Introduction to Mathematical Modeling  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 310, Introduction to Discrete Mathematics  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 315, Theory of Numbers  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 317, Introduction to Algebraic Systems  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 323, Geometry I  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 331, Differential Equations  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 382, Probability and Statistics I  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 398, Seminar  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 405, Numerical Analysis I (CS 405)  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 406, Numerical Analysis II  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  Math 415, Algebra and Number Theory  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 417, Algebraic Systems  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 423, Geometry II  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 431, Intermediate Analysis  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 435, Partial Differential Equations  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 439, Topology I  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 450, Complex Variables  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 470, Introduction to Operations Research  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 482, Probability and Statistics II  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites**  MATH 498, Senior Seminar  Contact: Nezam Iraniparast, [nezam.iraniparast@wku.edu](mailto:nezam.iraniparast@wku.edu), x56218 |
| Consent | **Revise Course Prerequisites/Corequisites**  MATH 183, Introductory Statistics  Contact: Melanie Autin, [melanie.autin@wku.edu](mailto:melanie.autin@wku.edu), x56171 |

Proposal Date: 10/13/2011

**Ogden College of Science and Engineering**

**Department of Engineering**

**Proposal to Create a Temporary Course**

**(Information Item)**

Contact Person: Joel Lenoir, joel.lenoir@wku.edu, 270-745-6858

1. **Identification of proposed course**
   1. Course prefix (subject area) and number: ME332
   2. Course title: Fluid Mechanics Laboratory
   3. Abbreviated course title: Fluid Mechanics Laboratory
   4. Credit hours: 1
   5. Schedule type: B, Lab
   6. Corequisites: ME330
   7. Course description:

An applied laboratory in the modeling, prediction, and measurement of fluid mechanics components and systems. Emphasis will be placed on the preparation of engineering reports, uncertainty analysis, and the experimental design plan process. System level experiments will include fluid property measurements, pipe flow and turbomachinery characteristics.

1. **Rationale**
   1. Reason for offering this course on a temporary basis:
   2. This course divides of the topical coverage of the existing ME440 into two labs coupled to their respective engineering science courses. ME332 will be coupled in the spring semester to ME330. It will also retain some of the Design of Experiments Plan material from ME440. The offering provides the student with a direct linkage with ME330 and creates a more integrated and streamlined ME junior year in engineering laboratory practices. The course focuses on fluid mechanics and supports the ABET requirement of a balance to both stems of the curriculum.
   3. Relationship of the proposed course to courses offered in other academic units:

Similar laboratory course are offered at numerous institutions as standalone fluid mechanics laboratories. Other institutions couple a discrete laboratory course with a specific fluid mechanics engineering science lecture course. The structure of ME332 provides the latter with ample coverage of fluid mechanics applications and measurement systems in a controlled laboratory environment coupled with reinforcing lectures on laboratory relevant engineering science topics coincident with ME330. Additionally, it is unique in that instruction on the ME Program Design of Experiments plan is deployed which supports design validation activities in the student’s senior capstone design experience.

1. **Description of proposed course**
   1. Course content outline

Design of Experiments Plan Topics:

* Experimental Planning
* Methods of Measurement
* Selection of Instrumentation
* Prediction of Uncertainty
* Analysis of Data and Results
* Estimation of Error
* Reporting of Experimental Results

List of Selected Experiments:

* Viscosity of a Fluid
* Fluid Flow Measurements
* Fluid Bernoulli Test Bed – Conservation of Energy
* Impact of a Jet – Momentum Transfer
* Hydrostatic Forces on Planar and Curved Surfaces
* Viscous Internal Flow – Laminar and Turbulent Regimes
* Pump Characteristics and Similarity
* Wind Tunnel (External Flow) - Lift and Drag Forces
  1. Tentative text(s):

No required textbook. Laboratory handouts will be provided. Textbooks used in ME310 and ME330 will serve as reference sources for the course.

1. **Second offering of a temporary course (if applicable)**
   1. Reason for offering this course a second time on a temporary basis:
   2. Term course was first offered:
   3. Enrollment in first offering:
2. **Term of Implementation:** Spring 2012
3. **Dates of review/approvals:**

Department/Division: \_\_\_\_11/8/11\_\_\_\_\_\_\_

Dean \_\_\_\_11/10/11\_\_\_\_\_\_

UCC Chair \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Provost: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Attachment: Course Inventory Form**

9/22/2011

**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 305
  2. Course title: Introduction to Mathematical Modeling
  3. Credit hours: 3

**2. Current prerequisites:** MATH 137

**3. Proposed prerequisites**: MATH 137 with a grade of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 305, the faculty proposes that the phrase "with a grade of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_September 30, 2011\_

OCSE Curriculum Committee \_November 3, 2011\_\_

Professional Education Council \_November 9, 2011\_\_

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

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

**Attachment: Course Inventory Form**

9/22/2011

**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 310
  2. Course title: INTRODUCTION TO DISCRETE MATHEMATICS
  3. Credit hours: 3

**2. Current prerequisites:** MATH 137

**3. Proposed prerequisites**: MATH 137 with a grade of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 310, the faculty proposes that the phrase "with a grade of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: September 30, 2011\_\_

OCSE Curriculum Committee November 3, 2011\_\_\_

Professional Education Council November 9, 2011\_\_\_

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

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**Attachment: Course Inventory Form**

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**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 315
  2. Course title: THEORY OF NUMBERS
  3. Credit hours: 3

**2. Current prerequisites:** MATH 307

**3. Proposed prerequisites**: MATH 307 with a grade of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 315, the faculty proposes that the phrase "with a grade of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_September 30, 2011\_

OCSE Curriculum Committee \_November 3, 2011\_\_

Professional Education Council \_November 9, 2011\_\_

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**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 317
  2. Course title: INTRODUCTION TO ALGEBRAIC SYSTEMS
  3. Credit hours: 3

**2. Current prerequisites:** MATH 307 and MATH 310

**3. Proposed prerequisites**: MATH 307 and MATH 310 with grades of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 317, the faculty proposes that the phrase "with grades of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_September 30, 2011\_

OCSE Curriculum Committee \_November 3, 2011\_\_

Professional Education Council \_November 9, 2011\_\_

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**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 323
  2. Course title: GEOMETRY I
  3. Credit hours: 3

**2. Current prerequisites:** MATH 307

**3. Proposed prerequisites**: MATH 307 with a grade of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 323, the faculty proposes that the phrase "with a grade of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_September 30, 2011\_

OCSE Curriculum Committee \_November 3, 2011\_\_

Professional Education Council \_November 9, 2011\_

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

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**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 prerequisites:** MATH 137

**3. Proposed prerequisites**: MATH 137 with a grade of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 137, the faculty proposes that the phrase "with a grade of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_September 30, 2011\_

OCSE Curriculum Committee \_November 3, 2011\_\_

Professional Education Council \_November 9, 2011\_\_

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

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

**Attachment: Course Inventory Form**

9/22/2011

**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 382
  2. Course title: PROBABILITY AND STATISTICS I
  3. Credit hours: 3

**2. Current prerequisites:** MATH 310

**3. Proposed prerequisites**: MATH 310 with a grade of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 382, the faculty proposes that the phrase "with a grade of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_September 30, 2011\_

OCSE Curriculum Committee \_November 3, 2011\_\_

Professional Education Council \_November 9, 2011\_\_

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

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**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 398
  2. Course title: SEMINAR
  3. Credit hours: 3

**2. Current prerequisites:** MATH 237

**3. Proposed prerequisites**: MATH 237 with a grade of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 398, the faculty proposes that the phrase "with a grade of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_September 30, 2011\_

OCSE Curriculum Committee \_November 3, 2011\_\_

Professional Education Council \_November 9, 2011\_\_

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**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 405
  2. Course title: NUMERICAL ANALYSIS I (CS 405)
  3. Credit hours: 3

**2. Current prerequisites:** MATH 237 or 307 or 310, and CS 180 or CS 230

**3. Proposed prerequisites**: MATH 237 or 307 or 310, and CS 180 or CS 230 with grades of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 405, the faculty proposes that the phrase "with grades of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_September 30, 2011\_

OCSE Curriculum Committee \_November 3, 2011\_\_

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**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 406
  2. Course title: NUMERICAL ANALYSIS II
  3. Credit hours: 3

**2. Current prerequisites:** MATH 237, 307, 331, and either MATH 405 or CS 405

**3. Proposed prerequisites**: MATH 237, 307, 331, and either MATH 405 or CS 405 all with grades of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 406, the faculty proposes that the phrase "with grades of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: September 30, 2011

OCSE Curriculum Committee November 3, 2011\_\_

Professional Education Council November 9, 2011\_\_

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**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 415
  2. Course title: ALGEBRA AND NUMBER THEORY
  3. Credit hours: 3

**2. Current prerequisites:** MATH 315 or 317

**3. Proposed prerequisites**: MATH 315 or 317 with a grade of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 415, the faculty proposes that the phrase "with a grade of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_\_September 30, 2011\_

OCSE Curriculum Committee \_\_November 3, 2011\_\_

Professional Education Council \_\_November 9, 2011\_\_

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**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 417
  2. Course title: ALGEBRAIC SYSTEMS
  3. Credit hours: 3

**2. Current prerequisites:** MATH 317

**3. Proposed prerequisites**: MATH 317 with a grade of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 417, the faculty proposes that the phrase "with a grade of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_\_September 30, 2011

OCSE Curriculum Committee \_\_November 3, 2011\_

Professional Education Council \_\_November 9, 2011\_

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**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 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

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 423, the faculty proposes that the phrase "with a grade of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_September 30, 2011\_

OCSE Curriculum Committee \_November 3, 2011\_\_

Professional Education Council \_November 9, 2011\_\_

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**(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 431
  2. Course title: INTERMEDIATE ANALYSIS I
  3. Credit hours: 3

**2. Current prerequisites:** MATH 337

**3. Proposed prerequisites**: MATH 337 with a grade of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 431, the faculty proposes that the phrase "with a grade of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_September 30, 2011\_

OCSE Curriculum Committee \_November 3, 2011\_\_

Professional Education Council \_November 9, 2011\_\_

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

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

**Attachment: Course Inventory Form**

9/22/2011

**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 435
  2. Course title: PARTIAL DIFFERENTIAL EQUATIONS
  3. Credit hours: 3

**2. Current prerequisites:** MATH 237, 307, and 331

**3. Proposed prerequisites**: MATH 237, 307, and 331 all with grades of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 435, the faculty proposes that the phrase "with grades of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_\_September 30, 2011

OCSE Curriculum Committee \_\_November 3, 2011\_

Professional Education Council \_\_November 9, 2011\_

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

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

**Attachment: Course Inventory Form**

9/22/2011

**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 439
  2. Course title: TOPOLOGY I
  3. Credit hours: 3

**2. Current prerequisites:** MATH 317 or permission of instructor

**3. Proposed prerequisites**: MATH 317 with a grade of C or better, or permission of instructor

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 439, the faculty proposes that the phrase "with grades of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_\_September 30, 2011

OCSE Curriculum Committee \_\_November 3, 2011\_

Professional Education Council \_\_November 9, 2011\_

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

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

**Attachment: Course Inventory Form**

9/22/2011

**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 450
  2. Course title: COMPLEX VARIABLES
  3. Credit hours: 3

**2. Current prerequisites:** MATH 237

**3. Proposed prerequisites**: MATH 237 with a grade of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 450, the faculty proposes that the phrase "with a grade of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_September 30, 2011\_

OCSE Curriculum Committee \_November 3, 2011\_\_

Professional Education Council \_November 9, 2011\_\_

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

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

**Attachment: Course Inventory Form**

9/22/2011

**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 470
  2. Course title: INTRODUCTION TO OPERATIONS RESEARCH
  3. Credit hours: 3

**2. Current prerequisites:** MATH 237 and 307

**3. Proposed prerequisites**: MATH 237 and 307 with grades of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 470, the faculty proposes that the phrase "with grades of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_September 30, 2011\_

OCSE Curriculum Committee \_November 3, 2011\_\_

Professional Education Council \_November 9, 2011\_\_

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

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

**Attachment: Course Inventory Form**

9/22/2011

**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 482
  2. Course title: PROBABILITY AND STATISTICS II
  3. Credit hours: 3

**2. Current prerequisites:** MATH 237 and 382

**3. Proposed prerequisites**: MATH 237 and 382 with grades of C or better

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 482, the faculty proposes that the phrase "with grades of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_September 30, 2011\_

OCSE Curriculum Committee \_November 3, 2011\_\_

Professional Education Council \_November 9, 2011\_\_

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

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

**Attachment: Course Inventory Form**

9/22/2011

**Ogden College of Science and Engineering**

**Department of Mathematics**

**Proposal to Revise Course Prerequisites**

**(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 498
  2. Course title: SENIOR SEMINAR
  3. Credit hours: 3

**2. Current prerequisites:** MATH 237 and 317, and senior standing or permission of instructor

**3. Proposed prerequisites**: MATH 237 and 317 with grades of C or better, and senior standing or permission of instructor

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

Currently, students majoring in mathematics are required to earn a grade of C or better in each course listed as a prerequisite for another mathematics course. In order to provide a uniform standard for prerequisites and to improve the chances of success for all students enrolling in MATH 498, the faculty proposes that the phrase "with grades of C or better" be added to the current prerequisite. Such a change also will benefit the student who decides to pursue a mathematics major after several semesters of course work.

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

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

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

MathematicsDepartment: \_September 30, 2011\_

OCSE Curriculum Committee \_November 3, 2011\_\_

Professional Education Council \_November 9, 2011\_\_

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

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

**Attachment: Course Inventory Form**

Proposal Date: 9/21/2011

**Ogden College of Science and Engineering**

**Department of Mathematics and Computer Science**

**Proposal to Revise Course Prerequisites/Corequisites**

**(Consent Item)**

Contact Person: Melanie Autin, melanie.autin@wku.edu, 745-6171

**1. Identification of course:**

* 1. Course prefix (subject area) and number: MATH 183
  2. Course title: Introductory Statistics
  3. Credit hours: 3

**2. Current prerequisites:**

Eligibility for College Algebra based on Math ACT or MPE scores, or DMA 096C with a grade of C or better

**3. Proposed prerequisites:**

Satisfactory score on Math ACT and MPE, or COMPASS or KYOTE; or DMA 096C with a grade of C or better

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

The current prerequisite is placement in College Algebra (MATH 116E or MATH 116). Since MATH 116E will no longer be offered, the new prerequisite will still allow students with adequate mathematical skills to take MATH 183.

The Kentucky Online Testing Program (KYOTE) is an online placement and testing system. COMPASS is a computer-adaptive college placement test. WKU is now honoring scores on these placement tests in addition to the WKU Math Placement Exam (MPE).

**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 \_\_\_\_\_9/30/2011\_\_\_\_

OCSE Curriculum Committee \_\_\_\_11/3/11\_\_\_\_\_\_\_\_

Professional Education Council \_\_\_\_11/09/11\_\_\_\_\_\_\_

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

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

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

**Attachment: Course Inventory Form**