

MEMORANDUM TO: Ogden College of Science and Engineering Curriculum Committee

| | | |
|-----------------------|----------------------|---------------------|
| Dr. Jack Rudolph | Dr. James Gary | Dr. Mike Carini |
| Dr. Martin Stone | Dr. Huanjing Wang | Dr. Edward Kintzel |
| Dr. Greg Arbuckle | Dr. Julie Ellis | Dr. Kelly Madole |
| Dr. Mark Revels | Dr. Warren Campbell | Dr. Steve Haggbloom |
| Dr. Bruce Schulte | Dr. David Keeling | Dr. Les Pesterfield |
| Dr. Phil Lienesch | Dr. Xingang Fan | |
| Dr. Cathleen Webb | Dr. Bruce Kessler | |
| Dr. Hemali Rathnayake | Dr. Richard Schugart | |

FROM: Kenneth Crawford, Chair

SUBJECT: Agenda for Thursday, March 5, 2015, 4:00 p.m. in COHH 4123

A. OLD BUSINESS:

- I. Consideration of the minutes of the February 5, 2015 meeting.

B. NEW BUSINESS:

Information Items

Department of Geography & Geology

- I. Proposal to Revise Course Prefix
 - a. GEOG to GISC – 216, 316, 317, 414, 417, 418, 419, 423, 443, 477.

Consent Items

Department of Engineering

- I. Proposal to Revise a Course Listing
 - a. EE, 180, Digital Circuits, 3 hrs.
 - b. EE 410, Computer Design, 3 hrs.
 - c. EE 411, Computer Design Lab, 1 hr.
 - d. EE 450, Digital Signal Processing, 3 hrs.
 - e. EE 451, Digital Signal Processing Lab, 1 hr.
 - f. EE 470, Communication and Modulation, 3 hrs.
 - g. EE 473, Introduction to Electromagnetic Fields and Waves, 3 hrs.
 - h. EE 475, Communication Systems Lab, 1 hr.

Department of Geography & Geology

- I. Proposal to Delete a Course
 - a. GEOG 240, Introduction to Planning, 3 hrs.
 - b. GEOG 384 Planning for Global Change, 3 hrs.
 - c. GEOG 473, Interactions in the Cave and Karst Environment, 3 hrs.
- II. Proposal to Revise Course Catalog Listing
 - a. GEOG 227, Our Vulnerable Planet, 3 hrs.

- b. GEOG 280, Environmental Science and Sustainability, 3 hrs.
- c. GEOG 471, Natural Resource Management, 3 hrs.

III. Proposal to Revise Course Title

- a. GEOG 344, Environmental Ethics in Geography, 3 hrs.
- b. GEOG 427, Water Resources, 3 hrs.

IV. Proposal to Revise Course Prerequisites/Requisites

- a. GEOG 328, Elements of Biogeography, 3 hrs.
- b. GEOG 380, Global Sustainability, 3 hrs.
- c. GEOG 420, Geomorphology, 4 hrs.
- d. GEOG 461, Karst Environments, 3 hrs.
- e. GEOG 487, Environmental Law, 3 hrs.
- f. GEOL 420 Geomorphology, 4 hrs.

Action Items

Department of Agriculture

- I. Proposal to Create a New Course
 - a. AGED 300, Youth Development for Agricultural Educators, 3 hrs.

Department of Engineering

- I. Proposal to Make Multiple Revisions to a Course
 - a. EE 479, Fundamentals of Optoelectronics, 2 hrs.

Department of Geography & Geology

- I. Proposal to Make Multiple Revisions to a Course
 - a. GEOG 310, Global Hydrology, 3 hrs.
 - b. GEOG 452, Geoscience Field Experiences, 3-6 hrs.
 - c. GEOG 455, Global Environmental Change, 3 hrs.
 - d. GEOG 459, Physical Hydrology, 3 hrs.
 - e. GEOG 486, Senior Environmental Seminar, 1 hr.
 - f. GEOL 310, Global Hydrology, 3 hrs.

C. OTHER BUSINESS

Minutes – OCSE Curriculum Committee

February 5, 2015

MEMBERS PRESENT:

Dr. Martin Stone
Dr. Mark Revels
Dr. Cathleen Webb
Dr. Huanjing Wang

Dr. Warren Campbell
Dr. David Keeling
Dr. Xingang Fan
Dr. Bruce Kessler

Dr. Richard Schugart
Dr. Steve Haggbloom
Dr. Les Pesterfield

FROM: Ken Crawford, Chair

OLD BUSINESS:

Keeling/Campbell moved for approval of the minutes of the December 4, 2014 meeting. Motion approved.

NEW BUSINESS:

Consent Agenda

Keeling/Campbell moved to bundle consent agenda. Revels/Keeling motioned to approve. Motion approved.

Action Agenda

Ogden College Dean's Office

Keeling/Haggbloom moved to bundle proposals to create a new course, BDA 310-M1 and BDA 310-M2.
Keeling/Kessler motioned to approve. Motion approved.

Department of Architectural Manufacturing Science

Keeling/Kessler moved to bundle and approve proposals to make multiple revisions to a course, AMS 490, AMS 490-M1, AMS 490 M-2, and AMS 490 M-3. Motion approved.

Department of Psychological Sciences

Keeling/Campbell moved to bundle and approve proposals to make multiple revisions to a course, PSYS 290, PSYS 331, and PSYS 490. Motion approved.

OTHER BUSINESS:

No other business.

Meeting was adjourned at 4:15pm.

Proposal date: 02/23/2015

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Revise Course Prefix (GEOG)
(Information Item)**

Contact Person: Kevin B. Cary, M.Sc., GISP, kevin.cary@wku.edu, 5-2981

- 1. **Identification of current course prefix:** GEOG
- 2. **Identification of proposed course prefix:** GISC
- 3. **Rationale for the prefix revision:** The Certificate in Geographic Information Systems (GIS) was created in 2000 and soon after its implementation a Minor in GIS was developed and offered at WKU. In 2009 the B.S. in Geographic Information Science (ref# 576) was created. All of the Department’s GIS courses were created under the GEOG prefix. This was done because several courses pre-existed as part of the original B.S. Geography – GIS Analysis track. With the growth and success of WKU’s GIS courses and programs, the Department wishes to create the GISC prefix to differentiate the GIS courses from other courses in the Department of Geography and Geology.

The GISC course designation has been widely adopted around the country, including by such institutions as the Cal. State system, Portland State, North Dakota State, U. Texas system, Louisiana Tech, and many more. Changing the prefix of GIS courses to GISC brings WKU in line with national trends and provides a consistent and widely accepted level of GIS course recognition for potential employers and others. In addition, all GIS instructors at WKU in the Department of Geography and Geology now are nationally certified as GISP instructors (Geographic Information Science Professionals).

- 4. **Course numbers to be included under the new course prefix:**
GEOG 216, GEOG 316, GEOG 317, GEOG 414, GEOG 417, GEOG 418, GEOG 419, GEOG 423, GEOG 443, GEOG 477.
- 5. **Term of implementation:** Fall 2015
- 6. **Dates of notification to committees:**

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

Proposal Date: February 16, 2015

**Ogden College of Science and Engineering
Department of Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Mark Cambron, mark.cambron@wku.edu, 745-8868

1. Identification of course:

- 1.1 Course prefix (subject area) and number: EE 180
- 1.2 Course title: Digital Circuits

2. Current course catalog listing:

An introductory course in digital circuit fundamentals. Topics include number systems, Boolean algebra, binary codes, logic gates, flip-flops, counters, and registers. Laboratory included.

3. Proposed course catalog listing:

An introductory course in digital circuit fundamentals. Topics include number systems, Boolean algebra, binary codes, logic gates, flip-flops, counters, and registers.

4. Rationale for revision of the course catalog listing:

The lab was removed from EE 180 in an earlier proposal. However, the catalog listing was not updated.

5. Proposed term for implementation:

Fall 2015

6. Dates of prior committee approvals:

Engineering Department
OSCE College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

26 February 2015

Proposal Date: February 16, 2015

**Ogden College of Science and Engineering
Department of Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Mark Cambron, mark.cambron@wku.edu, 745-8868

1. Identification of course:

- 1.1 Course prefix (subject area) and number: EE 410
- 1.2 Course title: Computer Design

2. Current course catalog listing:

This is the University of Louisville course EE 510. Topics include a review of logic design and elementary computer organization. Asynchronous and synchronous logic design using VHDL and programmable logic. Design of the central processing unit, memory, control, and input-output portions of a computer. The VHDL hardware design language will be used.

3. Proposed course catalog listing:

Topics include a review of logic design and elementary computer organization. Asynchronous and synchronous logic design using VHDL and programmable logic. Design of the central processing unit, memory, control, and input-output portions of a computer. The VHDL hardware design language will be used.

4. Rationale for revision of the course catalog listing:

All electrical engineering courses are part of the Electrical Engineering Program and can be taught by any EE faculty.

5. Proposed term for implementation:

Fall 2015

6. Dates of prior committee approvals:

Engineering Department
 OSCE College Curriculum Committee
 Undergraduate Curriculum Committee
 University Senate

26 February 2015

Proposal Date: February 16, 2015

**Ogden College of Science and Engineering
Department of Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Mark Cambron, mark.cambron@wku.edu, 745-8868

1. Identification of course:

- 1.1 Course prefix (subject area) and number: EE 411
- 1.2 Course title: Computer Design Lab

2. Current course catalog listing:

This is the University of Louisville course EE 511. This course is a laboratory which illustrates analysis and design principles of EE 410. It includes experiments in the design of the central processing unit, memory, control, and input-output portions of a computer using VHDL and PC based for software simulation.

3. Proposed course catalog listing:

This course is a laboratory which illustrates analysis and design principles of EE 410. It includes experiments in the design of the central processing unit, memory, control, and input-output portions of a computer using VHDL and PC based for software simulation.

4. Rationale for revision of the course catalog listing:

All electrical engineering courses are part of the Electrical Engineering Program and can be taught by any EE faculty.

5. Proposed term for implementation:

Fall 2015

6. Dates of prior committee approvals:

Engineering Department
OSCE College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

26 February 2015

Proposal Date: February 16, 2015

**Ogden College of Science and Engineering
Department of Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Mark Cambron, mark.cambron@wku.edu, 745-8868

1. Identification of course:

- 1.1 Course prefix (subject area) and number: EE 450
- 1.2 Course title: Digital Signal Processing

2. Current course catalog listing:

This is the University of Louisville course EE 520. Topics include discrete time signals and systems, discrete Fourier transforms, FFT algorithms, flow graph and the matrix representation of digital filters, FIR and IIR filter design techniques, quantization effects, spectral estimation, current applications of digital signal processing.

3. Proposed course catalog listing:

Topics include discrete time signals and systems, discrete Fourier transforms, FFT algorithms, flow graph and the matrix representation of digital filters, FIR and IIR filter design techniques, quantization effects, spectral estimation, current applications of digital signal processing.

4. Rationale for revision of the course catalog listing:

All electrical engineering courses are part of the Electrical Engineering Program and can be taught by any EE faculty.

5. Proposed term for implementation:

Fall 2015

6. Dates of prior committee approvals:

Engineering Department
OSCE College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

26 February 2015

Proposal Date: February 16, 2015

**Ogden College of Science and Engineering
Department of Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Mark Cambron, mark.cambron@wku.edu, 745-8868

1. Identification of course:

- 1.1 Course prefix (subject area) and number: EE 451
- 1.2 Course title: Digital Signal Processing Lab

2. Current course catalog listing:

This is the University of Louisville course EE 521. This course focuses on the implementation of common digital signal processing function using state-of-the-art DSP devices and software. The fundamentals of discrete-time signal processing and digital signal processor architectures and applications are introduced. Emphasis is on laboratory experience involving generation of deterministic and random signals; digital filter design; quantization effects; FFT computation; linear system analysis; speech processing.

3. Proposed course catalog listing:

This course focuses on the implementation of common digital signal processing function using state-of-the-art DSP devices and software. The fundamentals of discrete-time signal processing and digital signal processor architectures and applications are introduced. Emphasis is on laboratory experience involving generation of deterministic and random signals; digital filter design; quantization effects; FFT computation; linear system analysis; speech processing.

4. Rationale for revision of the course catalog listing:

All electrical engineering courses are part of the Electrical Engineering Program and can be taught by any EE faculty.

5. Proposed term for implementation:

Fall 2015

6. Dates of prior committee approvals:

Engineering Department

OSCE College Curriculum Committee

Undergraduate Curriculum Committee

University Senate

26 February 2015

Proposal Date: February 16, 2015

**Ogden College of Science and Engineering
Department of Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Mark Cambron, mark.cambron@wku.edu, 745-8868

1. Identification of course:

- 1.1 Course prefix (subject area) and number: EE 470
- 1.2 Course title: Communication and Modulation

2. Current course catalog listing:

This is the University of Louisville course EE 550. Topics include modulations such as AM, FM, PAM, PPM, PDM, single sideband, vestigial sideband. Coherent and non-coherent detection, heterodyne action, performance and distortion, circuits for modulation and demodulation.

3. Proposed course catalog listing:

Topics include modulations such as AM, FM, PAM, PPM, PDM, single sideband, vestigial sideband. Coherent and non-coherent detection, heterodyne action, performance and distortion, circuits for modulation and demodulation.

4. Rationale for revision of the course catalog listing:

All electrical engineering courses are part of the Electrical Engineering Program and can be taught by any EE faculty.

5. Proposed term for implementation:

Fall 2015

6. Dates of prior committee approvals:

Engineering Department
OSCE College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

26 February 2015

Proposal Date: February 16, 2015

**Ogden College of Science and Engineering
Department of Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Mark Cambron, mark.cambron@wku.edu, 745-8868

1. Identification of course:

- 1.1 Course prefix (subject area) and number: EE 473
- 1.2 Course title: Introduction to Electromagnetic Fields and Waves

2. Current course catalog listing:

This is the University of Louisville course EE 473. Topics include electrostatic and magnetostatic fields; Faraday's laws, Maxwell's equations, electromagnetic properties of matter, uniform plane waves, and transmission lines.

3. Proposed course catalog listing:

Topics include electrostatic and magnetostatic fields; Faraday's laws, Maxwell's equations, electromagnetic properties of matter, uniform plane waves, and transmission lines.

4. Rationale for revision of the course catalog listing:

All electrical engineering courses are part of the Electrical Engineering Program and can be taught by any EE faculty.

5. Proposed term for implementation:

Fall 2015

6. Dates of prior committee approvals:

Engineering Department
OSCE College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

26 February 2015

Proposal Date: February 16, 2015

**Ogden College of Science and Engineering
Department of Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Mark Cambron, mark.cambron@wku.edu, 745-8868

1. Identification of course:

- 1.1 Course prefix (subject area) and number: EE 475
- 1.2 Course title: Communication Systems Lab

2. Current course catalog listing:

This is the University of Louisville course EE 551. Topics include laboratory exercises involving the design and analysis of electronic communication systems for the transmission of analog and digital data at radio frequencies.

3. Proposed course catalog listing:

Topics include laboratory exercises involving the design and analysis of electronic communication systems for the transmission of analog and digital data at radio frequencies.

4. Rationale for revision of the course catalog listing:

All electrical engineering courses are part of the Electrical Engineering Program and can be taught by any EE faculty.

5. Proposed term for implementation:

Fall 2015

6. Dates of prior committee approvals:

Engineering Department

OSCE College Curriculum Committee

Undergraduate Curriculum Committee

University Senate

26 February 2015

Proposal Date: 2/23/2015

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Delete a Course
(Consent Item)**

Contact Person: Dr. Leslie North, leslie.north@wku.edu, 5-5982

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: GEOG 240
- 1.2 Course title: Introduction to Planning

2. Rationale for the course deletion: Course is not offered on a regular basis. Lack expertise in Department with retirement of previous faculty. No majors enrolled in the planning program.

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

4. Proposed term for implementation: Fall 2015 (201530)

5. Dates of prior committee approvals:

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

Proposal Date: 2/23/2015

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Delete a Course
(Consent Item)**

Contact Person: Dr. Leslie North, leslie.north@wku.edu, 5-5982

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: GEOG 384
- 1.2 Course title: Planning for Global Change

2. Rationale for the course deletion: Course not offered. No student demand. Planning program no longer a focus of the Department with the retirement of previous faculty.

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

4. Proposed term for implementation: Fall 2015

5. Dates of prior committee approvals:

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

Proposal Date: 2/23/2015

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Delete a Course
(Consent Item)**

Contact Person: Dr. Leslie North, leslie.north@wku.edu, 5-5982

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: GEOG 473
- 1.2 Course title: Interactions in the Cave and Karst Environment

2. Rationale for the course deletion: This specialty course is not regularly offered in the program. Content is covered through other courses. Does not count toward a major or minor in Geography and Geology.

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

4. Proposed term for implementation: Fall 2015

5. Dates of prior committee approvals:

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

1. Identification of course:

- 1.1 Course prefix (subject area) and number: GEOG 227
- 1.2 Course title: Our Vulnerable Planet

2. Current course catalog listing: Explore how anthropogenic processes such as climate change, pollution, urban sprawl, deforestation, and desertification impact the people on Earth and its ecosystems.

3. Proposed course catalog listing: Explore how anthropogenic processes such as climate change, pollution, urban sprawl, deforestation, and desertification impact the people on Earth and its ecosystems. Does not count towards a major or minor in Geography if GEOG 280 is taken as part of the degree requirements.

4. Rationale for revision of the course catalog listing: Content overlap exists between GEOG 280 and 227, so the Department will not allow students to count both courses towards a Geography major or minor program.

5. Proposed term for implementation: Fall 2015

6. Dates of prior committee approvals:

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

- 1. Identification of course:**
 - 1.1 Course prefix (subject area) and number: GEOG 280
 - 1.2 Course title: Environmental Science and Sustainability
- 2. Current course catalog listing:** A general understanding of geoscience applications in solving contemporary environmental problems. Lab component provides practical experiences associated with the theories outlines in the course content.
- 3. Proposed course catalog listing:** A general understanding of how the environment functions, the complexity of human-environmental interactions, and the application of geoscience in solving environmental problems. Lab component provides practical experiences associated with the theories outlined in the course content.
- 4. Rationale for revision of the course catalog listing:** Proposed description more clearly describes the content of the course, which is necessary to distinguish this course content from other courses.
- 5. Proposed term for implementation:** Fall 2015
- 6. Dates of prior committee approvals:**

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

1. Identification of course:

- 1.1 Course prefix (subject area) and number: GEOG 471
- 1.2 Course title: Natural Resource Management

2. Current course catalog listing: Natural resources of the United States are studied and recommendations for their more efficient utilization are presented.

3. Proposed course catalog listing: Natural resources of the United States and beyond are studied and recommendations for their more efficient utilization are presented. Discussions related, but are not limited, to timber, fisheries, grazing, and wildlife management.

4. Rationale for revision of the course catalog listing: Change needed to demonstrate the international component of the course content. Also, topics needed to demonstrate how content in GEOG 471 differs from other environmentally related courses in the program.

5. Proposed term for implementation: Fall 2015

6. Dates of prior committee approvals:

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Revise Course Title
(Consent Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: GEOG 344
- 1.2 Course title: Environmental Ethics in Geography
- 1.3 Credit Hours: 3

2. Proposed course title: Environmental Ethics

3. Proposed abbreviated course title: Environmental Ethics

4. Rationale for the revision of course title: Cleans up the title since reference to geographic analysis isn't necessary based on the course content. The course is also taken by non-geography majors, and the new title implies the course is more applicable to anybody dealing with ethics in environmental management.

5. Proposed term for implementation: Fall 2015

6. Dates of prior committee approvals:

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Revise Course Title
(Consent Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: GEOG 427
- 1.2 Course title: Water Resources
- 1.3 Credit Hours: 3

2. Proposed course title: Water Resource Management

3. Proposed abbreviated course title: Water Resource Management

4. Rationale for the revision of course title: The new title better reflects course content, which is primarily concerned with the management, rather than physical science, of water resources. The proposed title will help students identify difference between this and the physical science courses.

5. Proposed term for implementation: Fall 2015

6. Dates of prior committee approvals:

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

Proposal Date: 2/23/15

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

- 1. Identification of course:**
 - 1.1 Course prefix (subject area) and number: GEOG 328
 - 1.2 Course title: Elements of Biogeography
- 2. Current prerequisites:** GEOG 280, or instructor's permission
- 3. Proposed prerequisites:** None
- 4. Rationale for the revision of prerequisites:** Due to the nature of the course content, and the recent restructuring of GEOG 280 course content, the prerequisite is no longer required.
- 5. Effect on completion of major/minor sequence:** None
- 6. Proposed term for implementation:** Fall 2015
- 7. Dates of prior committee approvals:**

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

- 1. Identification of course:**
 - 1.1 Course prefix (subject area) and number: GEOG 380
 - 1.2 Course title: Global Sustainability

- 2. Current prerequisites:** GEOG 210 or 280 and 21 hours of Foundations and Exploration courses, or Junior status.

- 3. Proposed prerequisites:** 21 hours of Foundations and Exploration Courses, or Junior status.

- 4. Rationale for the revision of prerequisites:** The structure of the course is such that relevant content from 210 and 280 is covered as needed in the 380 course. Therefore, these two courses are not necessary for the successful completion of the class.

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

- 6. Proposed term for implementation:** Fall 2015

- 7. Dates of prior committee approvals:**

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

Proposal Date: 2/23/15

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

- 1. Identification of course:**
 - 1.1 Course prefix (subject area) and number: GEOG 420
 - 1.2 Course title: Geomorphology
- 2. Current prerequisites:** GEOL 111
- 3. Proposed prerequisites:** GEOL 111 or GEOG/GEOL 103
- 4. Rationale for the revision of prerequisites:** Additional prerequisite option added to reflect intro level course recently added to the curriculum.
- 5. Effect on completion of major/minor sequence:** None
- 6. Proposed term for implementation:** Fall 2015
- 7. Dates of prior committee approvals:**

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

Proposal Date: 2/23/15

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

1. **Identification of course:**
 - 1.1 Course prefix (subject area) and number: GEOG 461
 - 1.2 Course title: Karst Environments
2. **Current prerequisites:** GEOG 310 or GEOG 459, or GEOG 420, or permission of instructor
3. **Proposed prerequisites:** GEOG/GEOL 310 or GEOG 420 or permission of instructor
4. **Rationale for the revision of prerequisites:** Allows for GEOG or GEOL 310 to count as a prerequisite. GEOG/L 310 is a prerequisite for GEOG 459, so it isn't necessary to specify GEOG 459 for this course.
5. **Effect on completion of major/minor sequence:** None
6. **Proposed term for implementation:** Fall 2015
7. **Dates of prior committee approvals:**

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

Proposal Date: 2/23/15

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

- 1. Identification of course:**
 - 1.1 Course prefix (subject area) and number: GEOG 487
 - 1.2 Course title: Environmental Law
- 2. Current prerequisites:** Senior-level standing.
- 3. Proposed prerequisites:** Senior-level standing. GEOG 210 required for Geography majors and minors.
- 4. Rationale for the revision of prerequisites:** Students majoring in Political Science or History take this course. These students come into the class with an understanding of how policies are made, the structure of the US government, etc. Students in the Geography program may not have this background if they haven't taken GEOG 210. Therefore, we are requiring GEOG 210 as a prerequisite for Geography majors and minors only.
- 5. Effect on completion of major/minor sequence:** None
- 6. Proposed term for implementation:** Fall 2015
- 7. Dates of prior committee approvals:**

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

Proposal Date: 2/23/15

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

- 1. Identification of course:**
 - 1.1 Course prefix (subject area) and number: GEOL 420
 - 1.2 Course title: Geomorphology
- 2. Current prerequisites:** GEOL 111
- 3. Proposed prerequisites:** GEOL 111 or GEOG/GEOL 103
- 4. Rationale for the revision of prerequisites:** Additional prerequisite option added to reflect intro level course recently added to the curriculum.
- 5. Effect on completion of major/minor sequence:** None
- 6. Proposed term for implementation:** Fall 2015
- 7. Dates of prior committee approvals:**

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

**Ogden College of Science and Engineering
Department of Agriculture
Proposal to Create a New Course
(Action Item)**

Contact Person: Thomas Kingery, thomas.kingery@wku.edu, 270-745-5966

1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AGED 300
- 1.2 Course title: Youth Development for Agricultural Educators
- 1.3 Abbreviated course title: Youth Dev for Ag Educators

- 1.4 Credit hours: 3.0 Variable credit: No
- 1.5 Grade type: Standard letter
- 1.6 Prerequisites: AGED 250
- 1.7 Course description: Prepares future secondary school agricultural educators to provide academic advisement and direction in youth development programs in secondary schools.

2. Rationale:

- 2.1 Reason for developing the proposed course:

Past graduates have suggested that more AGED courses be included in the undergraduate program. In particular, they have requested coursework that would prepare them to foster leadership development among the secondary school youth under their supervision. This course is intended to provide the tools needed to promote, oversee and evaluate student participation in agricultural organizations such as 4-H, The National FFA Organization and Supervised Agricultural Education Programs (SAEP). (This course will be required of all AGED majors.)

- 2.2 Projected enrollment in the proposed course:

Projected enrollment is 5-10 students per year, based on current enrollment in the program. (Students outside the department are not expected to enroll.)

- 2.3 Relationship of the proposed course to courses now offered by the department:

This course builds upon the student's educational foundation course, AGED 250.

- 2.4 Relationship of the proposed course to courses offered in other departments:

There is no other course in the University that includes these topics, which are specific to agricultural education teacher preparation.

- 2.5 Relationship of the proposed course to courses offered in other institutions:

Many land grant institutions offer a similar course in their agricultural education programs. The University of Kentucky, Purdue University, and the University of Illinois all offer a youth development course.

3. Discussion of proposed course:

- 3.1 Schedule type: L-Lecture
- 3.2 Learning Outcomes:
 - Gain skill in advising youth development organizations.
 - Understand and apply principles of team dynamics.
 - Integrate STEM concepts into youth development programs.

- Learn to coach FFA and Career Development Event Teams (CDE) teams and evaluate student progress in CDE, 4-H and FFA.

3.3 Content outline:

- Meeting the diverse needs of all learners
- Integrating curriculum and design into a youth development program.
- Developing leadership, record-keeping and management skills among youth
- Developing and advising 4-H and FFA chapters
- Implementing STEM activities in a youth development program
- Training FFA and CDE teams
- Integrating program planning decisions into a youth development program.
- Planning and developing SAE (Supervised Agricultural Experience) programs
- Supervising and evaluating SAE programs
- Devising a recruitment and retention strategy
- Developing a marketing plan for student agricultural programs
- Developing, managing and evaluating post-secondary programs

3.4 Student expectations and requirements:

Students will create and coach a CDE team, deliver presentations to the class on assigned youth development clubs, write an American Psychological Association (APA) paper about a youth development specialist, and assist in the preparation and organization of the WKU Field Day, as well as completing class assignments, quizzes and exams.

3.5 Tentative texts and course materials:

Ball, A., Dyer, J., Osborne, E. & Phipps, L. (2008). *Handbook on Agricultural Education in Public Schools (6th ed.)* Clifton Park, NY: Delmar/Cengage Learning

4. Resources:

4.1 Library resources:

4.2 Computer resources:

Students will use current internet sites as reference tools throughout the course. They will also utilize PowerPoint, excel and word management programs.

5. Budget implications:

5.1 Proposed method of staffing: Existing faculty

5.2 Special equipment needed: None

5.3 Expendable materials needed: None

5.4 Laboratory materials needed: None

6. Proposed term for implementation: Spring 2016

7. Dates of prior committee approvals:

Department of Agriculture

1-29-15

Ogden College Curriculum Committee

Professional Education Council (if applicable)

General Education Committee (if applicable)

NA

Undergraduate Curriculum Committee

University Senate

Proposal Date: February 24, 2015

Ogden College of Science and Engineering
Department of Engineering
Proposal to Make Multiple Revisions to a Course
(Action Item)

Contact Person: Walter Collett, walter.collett@wku.edu, 745-2016

- 1. Identification of course:**
 - 1.1 Current course prefix (subject area) and number: EE 479
 - 1.2 Course title: Fundamentals of Optoelectronics

- 2. Revise course title:**
 - 2.1 Current course title: Fundamentals of Optoelectronics
 - 2.2 Proposed course title: Optoelectronics
 - 2.3 Proposed abbreviated title: Optoelectronics
 - 2.4 Rationale for revision of course title:
As no second course is offered in the subject area, and the course is undergraduate level, indicating 'fundamentals of' is not needed.

- 3. Revise course number: n/a**
 - 3.1 Current course number:
 - 3.2 Proposed course number:
 - 3.3 Rationale for revision of course number:

- 4. Revise course prerequisites/corequisites/special requirements: n/a**
 - 4.1 Current prerequisites/corequisites/special requirements: (indicate which)
 - 4.2 Proposed prerequisites/corequisites/special requirements:
 - 4.3 Rationale for revision of course prerequisites/corequisites/special requirements:
 - 4.4 Effect on completion of major/minor sequence:

- 5. Revise course catalog listing:**
 - 5.1 Current course catalog listing:
An introduction to the principles of electronic devices that interact with light. Topics include the generation and propagation of light, basic geometrical and wave optics, Snell's Law, polarization, optical storage, LED's, micro-opto-electromechanical systems, optical sensors, fiber optics, solar cells, and fundamentals of lasers.
 - 5.2 Proposed course catalog listing:
Topics include basic wave optics, Snell's Law, optical storage, LED's, micro-opto-electromechanical systems, optical sensors, fiber optics, solar cells, and fundamentals of lasers.
 - 5.3 Rationale for revision of course catalog listing:
The proposed catalog listing is a more concise and accurate description of the material covered in the course.

- 6. Revise course credit hours:**

- 6.1 Current course credit hours: 2
- 6.2 Proposed course credit hours: 3
- 6.3 Rationale for revision of course credit hours:
This course was a required two-hour experience in optoelectronics. The two-hour allocation was originally chosen over three hours due to the high number of required hours in the Electrical Engineering (EE) curriculum. Optoelectronics is now an elective course, enabling us to increase the number of hours to three. This increase in hours will permit greater depth of material coverage.

7. **Revise grade type:** n/a

- 7.1 Current grade type:
- 7.2 Proposed grade type:
- 7.3 Rationale for revision of grade type:

8. **Proposed term for implementation:** Fall 2015

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

Engineering Department
OSCE College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

26 February 2015

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Make Multiple Revisions to a Course
(Action Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: GEOG 310
- 1.2 Course title: Global Hydrology

2. Revise course prerequisites:

- 2.1 Current prerequisites: GEOL 111
- 2.2 Proposed prerequisites: GEOL 111 or GEOG/GEOL 103
- 2.3 Rationale for revision of course prerequisites:
Additional prerequisite option added to reflect introductory level course recently added to the curriculum
- 2.4 Effect on completion of major/minor sequence: None

3. Revise course catalog listing:

- 3.1 Current course catalog listing: Emphasis is given to descriptive and quantitative hydrology. The hydrologic cycle, precipitation, evaporation, and transpiration will be covered under descriptive hydrology. Hydrographs, runoff relations, groundwater, and storage routing will be covered under quantitative hydrology. Consideration will be given to use and management of water as a resource. Equivalent to GEOL 310.
- 3.2 Proposed course catalog listing: An introduction to descriptive and quantitative hydrology. The hydrologic cycle precipitation, evaporation, and transpiration are covered under descriptive hydrology. Hydrographs, runoff relations, groundwater, and storage routing are covered under quantitative hydrology. Equivalent to GEOL 310.
- 3.3 Rationale for revision of course catalog listing: Description changed to remove reference to management of water resources since this is covered in another course. Emphasizes that this is an introductory water course, for easier sequencing identification by students.

4. Proposed term for implementation: Spring 2016

9. Dates of prior committee approvals:

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Make Multiple Revisions to a Course
(Action Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: GEOG 452
- 1.2 Course title: Geoscience Field Experiences

2. Revise course prerequisites:

- 2.1 Current prerequisites: Junior standing or instructor's permission
- 2.2 Proposed prerequisites: None
- 2.3 Rationale for revision of course prerequisites: The structure of this course is such that a student's standing is not needed to be specified. The course can include study abroad, field camps, and special hands-on courses, all of which can be taken by students at any grade level.
- 2.4 Effect on completion of major/minor sequence: None

3. Revise course credit hours:

- 3.1 Current course credit hours: 3-6 hours
- 3.2 Proposed course credit hours: 3-6 hours, repeatable for a maximum of 12 hours.
- 3.3 Rationale for revision of course credit hours: This course encompasses a wide variety of possible field experiences, so it is important that students are able to take advantage of multiple experiences and be able to count these experiences towards the degree as electives. The additional hours will allow students to capitalize on these multiple field opportunities offered through the Department.

8. Proposed term for implementation: Fall 2015

9. Dates of prior committee approvals:

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Make Multiple Revisions to a Course
(Action Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: GEOG 455
- 1.2 Course title: Global Environmental Change

2. Revise course title:

- 2.1 Current course title: Global Environmental Change
- 2.2 Proposed course title: Global Climate Change
- 2.3 Proposed abbreviated title: Global Climate Change
- 2.4 Rationale for revision of course title: The proposed title is more reflective of modern-day terminology in the environment and climate change field. Students will have a clearer description (through the title) of the course content.

3. Revise course catalog listing:

- 3.1 Current course catalog listing: Examines key themes in environmental change at the global scale, environmental policy formation and relevance of environmental change for policy implementation and assessment.
- 3.2 Proposed course catalog listing: Explores the science behind global climate change, including how models, observations, and proxies are used to understand and predict past and future climate, international perspectives on global climate change, and mitigation strategies put forth by the Intergovernmental Panel on Climate Change.
- 3.3 Rationale for revision of course catalog listing: The new description more closely reflects the detailed content covered in the course to remove vagueness and add in relevant terminology used in the climate change discipline.

4. Proposed term for implementation: Fall 2015

5. Dates of prior committee approvals:

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Make Multiple Revisions to a Course
(Action Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

- 1. Identification of course:**
 - 1.1 Current course prefix (subject area) and number: GEOG 459
 - 1.2 Course title: Physical Hydrology

- 2. Revise course title:**
 - 2.1 Current course title: Physical Hydrology
 - 2.2 Proposed course title: Advanced Hydrology
 - 2.3 Proposed abbreviated title: Advanced Hydrology
 - 2.4 Rationale for revision of course title: Distinguishes more clearly between the introductory GEOG/GEOL 310 course and this senior-level course.

- 3. Revise course prerequisites:**
 - 3.1 Current prerequisites: MATH 136 with a grade of "C" or better, and GEOG 310 or GEOL 420
 - 3.2 Proposed prerequisites: MATH 136 with a grade of "C" or better, and GEOG/GEOL 310 or GEOG/GEOL 420
 - 3.3 Rationale for revision of course prerequisites: To allow either section (GEOG or GEOL) of the existing departmental prerequisites to count.
 - 3.4 Effect on completion of major/minor sequence: None

- 4. Revise course catalog listing:**
 - 4.1 Current course catalog listing: A geologically-based and calculus-based introduction to the Earth's hydrologic cycle, using principles of fluid dynamics, that addresses components of atmospheric, surface, and ground waters. Fieldtrips and field-based exercises are required.
 - 4.2 Proposed course catalog listing: Builds upon the principles of descriptive and quantitative hydrology using a geologic- and calculus-based approach to understanding the Earth's hydrologic cycle. Includes components of atmospheric, surface, and ground waters and the principles of fluid dynamics that govern the physical and chemical processes that affect water and its behavior in the natural world.
 - 4.3 Rationale for revision of course catalog listing: Facilitates better identification of course sequencing and more clearly illustrates the advanced and physical nature of this course content compared to other courses in the program.

- 5. Proposed term for implementation: Fall 2015**

6. Dates of prior committee approvals:

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

Proposal Date: 2/23/15

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Make Multiple Revisions to a Course
(Action Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: GEOG 486
- 1.2 Course title: Senior Environmental Seminar

2. Revise course title:

- 2.1 Current course title: Senior Environmental Seminar
- 2.2 Proposed course title: Environmental Seminar
- 2.3 Proposed abbreviated title: Environmental Seminar
- 2.4 Rationale for revision of course title: All qualified students can participate in the course. Therefore, "Senior" is not needed in the title.

3. Revise course catalog listing:

- 3.1 Current course catalog listing: Current environmental issues discussed by invited lecturers, including identification of possible careers in environmental fields.
- 3.2 Proposed course catalog listing: Current environmental issues discussed by invited lecturers. Students are expected to participate in pre-approved department and university-wide seminars.
- 3.3 Rationale for revision of course catalog listing: Seminars do not always include discussion of careers in environmental fields, so this was removed from the description. Clarifies what is expected in the course (participation in both department and university-wide seminars).

4. Proposed term for implementation: Fall 2015

5. Dates of prior committee approvals:

Department of Geography and Geology
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

2/27/2015

**Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Make Multiple Revisions to a Course
(Action Item)**

Contact Person: Leslie North, leslie.north@wku.edu, 5-5982

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: GEOL 310
- 1.2 Course title: Global Hydrology

2. Revise course prerequisites:

- 2.1 Current prerequisites: GEOL 111
- 2.2 Proposed prerequisites: GEOL 111 or GEOG/GEOL 103
- 2.3 Rationale for revision of course prerequisites:
Additional prerequisite option added to reflect introductory level course recently added to the curriculum
- 2.4 Effect on completion of major/minor sequence: None

3. Revise course catalog listing:

- 3.1 Current course catalog listing: Emphasis is given to descriptive and quantitative hydrology. The hydrologic cycle, precipitation, evaporation, and transpiration will be covered under descriptive hydrology. Hydrographs, runoff relations, groundwater, and storage routing will be covered under quantitative hydrology. Consideration will be given to use and management of water as a resource. Equivalent to GEOG 310.
- 3.2 Proposed course catalog listing: An introduction to descriptive and quantitative hydrology. The hydrologic cycle precipitation, evaporation, and transpiration are covered under descriptive hydrology. Hydrographs, runoff relations, groundwater, and storage routing are covered under quantitative hydrology. Equivalent to GEOG 310.
- 3.3 Rationale for revision of course catalog listing: Description changed to remove reference to management of water resources since this is covered in another course. Emphasizes that this is an introductory water course, for easier sequencing identification by students.

4. Proposed term for implementation: Spring 2016

9. Dates of prior committee approvals:

| | |
|-------------------------------------|------------------|
| Department of Geography and Geology | <u>2/27/2015</u> |
| Ogden College Curriculum Committee | _____ |
| Undergraduate Curriculum Committee | _____ |
| University Senate | _____ |