

## OGDEN COLLEGE OF SCIENCE AND ENGINEERING

February 18, 2013

**MEMORANDUM TO: OCSE Graduate Committee**

Dr. Martin Stone	Dr. Shane Palmquist
Dr. Mark Doggett	Dr. David Keeling
Dr. Larry Alice	Dr. Mark Robinson
Dr. Raja Dakshinmurthy	Dr. Ivan Novikov
Dr. Guangming Xing	

**FROM: Cathleen Webb, Chair**

**SUBJECT: Agenda for meeting of Friday, February 22, 2013 at 3:00 p.m, COHH 4123**

### **OLD BUSINESS**

Consideration of the minutes of the December 14, 2012, meeting.

### **NEW BUSINESS**

#### **Consent Agenda**

#### **Department of Geography and Geology**

1. Proposal to Delete a Course
  - a. GEOG 416G, Remote Sensing, 3 hrs.
  - b. GEOG 420G, Geomorphology, 4 hrs.
  - c. GEOG 421G, Advanced Geomorphology, 3 hrs.
  - d. GEOG 422G, Climatology, 3 hrs.
  - e. GEOG 423G, Transport, Location and GIS, 3hrs.
  - f. GEOG 427G, Water Resources, 3 hrs.
  - g. GEOG 428G, Applied Groundwater Hydrology, 3 hrs.
  - h. GEOG 430G, Cultural Geography, 3 hrs.
  - i. GEOG 454G, Geography of Middle America, 3 hrs.
  - j. GEOG 464G, Geography of Europe, 3 hrs.
  - k. GEOG 466G, Geography of Africa, 3 hrs.
  - l. GEOG 479G, Industrial and Commercial Geography, 3 hrs.
  - m. GEOG 484G, Planning Theory and Applications, 3 hrs.
  - n. GEOG 492G, Spatial Analsis, 3 hrs.
  - o. GEOG 497G, Spatial Decision Support Systems, 3 hrs.
  - p. GEOG 560, Settlement Geography, 3 hrs.
  - q. GEOL 405G, Paleontology, 3 hrs.
  - r. GEOL 480G, Coal Geology, 3 hrs.
  - s. GEOL 490G, Petroleum Geology, 3 hrs.

- t. GEOL 492G, Spatial Analysis, 3 hrs.
  - u. GEOS 560, Settlement Geography, 3 hrs.
- 2. Proposal to Reactivate a Suspended Course
    - a. GEOL 470G, Tectonics, 3 hrs.

## **Action Agenda**

### **Department of Chemistry**

- 1. Proposal to Create a New Course
  - a. CHEM 421G, Inorganic Chemistry Laboratory, 1 hr.
- 2. Proposal to Revise a Program
  - a. Ref. #059, Master of Science in Chemistry, 30 plus 3 credit hours of research tool
  - b. Ref. #061, Master of Arts in Education: Chemistry, 30 plus 3 credit hours of research tool

### **Department of Geography and Geology**

- 1. Proposal to Make Multiple Revisions to a Course
  - a. GEOS 520, Geoscience Data Analysis, 4 hrs.
  - b. GEOS 584, Advanced Planning, 3 hrs.
- 2. Proposal to Revise a Program
  - a. Ref. #203, Geographic Information Science (graduate certificate program), 12 hrs.

## **OTHER BUSINESS**

**MINUTES – OCSE Graduate Curriculum Committee**

**December 14, 2012**

**Members Present:** Dr. Mark Doggett; Dr. Raja Dakshinmurthy; Dr. Guangming Xing; Dr. David Keeling; Dr. Mark Robinson; Dr. Ivan Novikov

Dr. Larry Alice could not attend and sent his votes via email proxy.

Visitor: Dr. Shane Palmquist

Cathleen Webb, Chair

**OLD BUSINESS**

Keeling/Xing moved approval of the minutes from the November 16, 2012, meeting. Motion passed.

**NEW BUSINESS**

**Action Agenda**

**Department of Engineering**

Doggett moved to table the proposal to create a new course, CE 426G, Advanced Construction Materials, to the next meeting until the Engineering Department and Architectural and Manufacturing Sciences Department could discuss a change to the name of the class. The motion did not receive a second.

Keeling/Robinson moved approval of the proposal to create a new course, CE 426G, Advanced Construction Materials. Motion approved with one dissenting vote.

Keeling/Xing moved approval of the proposals to create a new course, CE 440G, Masonry Design and Construction; CE 441G, Masonry Construction Lab; CE 444G, Bridge Engineering and CE 462G, Hydraulic Engineering Systems as one item. Motion approved with one dissenting vote.

**Department of Physics and Astronomy**

Keeling/Xing moved approval of the proposal to revise a program, Ref. #413, M.S. in Homeland Security Sciences. Motion passed with friendly amendment to add a GIS course to electives area.

**OTHER BUSINESS**

There being no other business the meeting adjourned at 3:21 p.m.

Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOG 416G
- 1.2 Course title: Remote Sensing
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content embedded in other remote sensing and GIS graduate courses. This course has not been taught since 200430.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013 \_\_\_\_\_

Ogden College Graduate Committee \_\_\_\_\_

Graduate Council \_\_\_\_\_

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

**Attachment: Course Inventory Form**

# Office of the Registrar

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99AR Interdisciplinary/Undeclared  
 ART Art  
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Office of the Registrar Use

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

Graduate Council \_\_\_\_\_ Provost \_\_\_\_\_ Banner Data \_\_\_\_\_

Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOG 420G
- 1.2 Course title: Geomorphology
- 1.3 Credit hours: 4

**2. Rationale for the course deletion:** Content embedded in other geoscience graduate courses. This course has not been taught since prior to 200130.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013 \_\_\_\_\_

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Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOG 421G
- 1.2 Course title: Advanced Geomorphology
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content embedded in other geoscience graduate courses. This course has not been taught since prior to 200130.

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

**4. Proposed term for implementation:** Fall 2013

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**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOG 422G
- 1.2 Course title: Climatology
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content embedded in other climate science graduate courses. This course has not been taught since 200430.

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

**4. Proposed term for implementation:** Fall 2013

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Proposal Date: 2/7/2013

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Department of Geography and Geology  
Proposal to Delete a Course  
(Consent Item)**

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOG 423G
- 1.2 Course title: Transport, Location, and GIS
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content embedded in other geoscience graduate courses. This course has not been taught since prior to 200130.

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

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Proposal Date: 2/7/2013

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Proposal to Delete a Course  
(Consent Item)**

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

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

**2. Rationale for the course deletion:** Content embedded in other geoscience graduate courses. This course has not been taught since prior to 200130.

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

**4. Proposed term for implementation:** Fall 2013

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

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1. **Subject Area** GEOG **Course Number** 427G **Course Title** WATER RESOURCES
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Proposal Date: 2/8/2013

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Department of Geography and Geology  
Proposal to Delete a Course  
(Consent Item)**

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOG 428G
- 1.2 Course title: Applied Groundwater Hydrology
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content embedded in other geoscience graduate courses. This course has not been taught since 200710.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013

Ogden College Graduate Committee \_\_\_\_\_

Graduate Council \_\_\_\_\_

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

**Attachment: Course Inventory Form**

# Office of the Registrar

## COURSE INVENTORY FORM

Check One

**Suspend Course**

**Delete Course**

**Reactivate Suspended Course**

1. **Subject Area**  **Course Number**  **Course Title**
2. **Effective Term for Course Suspension, Deletion, or Reactivation** (e.g. Spring 2012=201210, Fall 2012=201230)
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### EX Exploratory Studies

ACAD Academic Advising and Retention  
ND Non Degree

### GC Graduate Studies

GRAD Graduate Studies Office

### HH Health & Human Services

99HH Interdisciplinary/Undeclared  
ALHL Allied Health  
CD Communication Disorders  
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### IS University College

99IS Dean's Office  
ACMS Math and Science Academy  
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ACCT Accounting  
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MKT Marketing and Sales

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PSY Psychology  
TCH School of Teacher Education

Office of the Registrar Use

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

Graduate Council \_\_\_\_\_ Provost \_\_\_\_\_ Banner Data \_\_\_\_\_

Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOG 430G
- 1.2 Course title: Cultural Geography
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content now offered in GEOS 530. This course has not been taught since 200510.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013

Ogden College Graduate Committee \_\_\_\_\_

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**Attachment: Course Inventory Form**

# Office of the Registrar

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Office of the Registrar Use

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

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Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOG 454G
- 1.2 Course title: Geography of Middle America
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content now offered in GEOS 540. This course has not been taught since prior to 200130.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013

Ogden College Graduate Committee \_\_\_\_\_

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**Attachment: Course Inventory Form**

# Office of the Registrar

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Office of the Registrar Use

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

Graduate Council \_\_\_\_\_ Provost \_\_\_\_\_ Banner Data \_\_\_\_\_

Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOG 464G
- 1.2 Course title: Geography of Europe
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content now offered in GEOS 540. This course has not been taught since prior to 200130.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013 \_\_\_\_\_

Ogden College Graduate Committee \_\_\_\_\_

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**Attachment: Course Inventory Form**

# Office of the Registrar

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Office of the Registrar Use

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

Graduate Council \_\_\_\_\_ Provost \_\_\_\_\_ Banner Data \_\_\_\_\_

Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOG 466G
- 1.2 Course title: Geography of Africa
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content now offered in GEOS 540. This course has not been taught since 200630.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013

Ogden College Graduate Committee \_\_\_\_\_

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**Attachment: Course Inventory Form**

# Office of the Registrar

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Office of the Registrar Use

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Graduate Council \_\_\_\_\_ Provost \_\_\_\_\_ Banner Data \_\_\_\_\_

Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOG 479G
- 1.2 Course title: Industrial and Commercial Geography
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content now offered in other geoscience graduate courses. This course has not been taught since prior to 200130.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013

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**Attachment: Course Inventory Form**

# Office of the Registrar

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Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOG 484G
- 1.2 Course title: Planning Theory and Applications
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content now offered in other geoscience graduate courses. This course has not been taught since 200330.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013

Ogden College Graduate Committee \_\_\_\_\_

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**Attachment: Course Inventory Form**

# Office of the Registrar

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Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOG 492G
- 1.2 Course title: Spatial Analysis
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content now offered in GEOS 520. This course has not been taught since prior to 200130.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013

Ogden College Graduate Committee \_\_\_\_\_

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**Attachment: Course Inventory Form**

# Office of the Registrar

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### EX Exploratory Studies

ACAD Academic Advising and Retention  
ND Non Degree

### GC Graduate Studies

GRAD Graduate Studies Office

### HH Health & Human Services

99HH Interdisciplinary/Undeclared  
ALHL Allied Health  
CD Communication Disorders  
CFS Family and Consumer Sciences  
NURS School of Nursing  
PHY Kinesiology, Recreation and Sport  
PUBH Public Health  
SWRK Social Work

### IS University College

99IS Dean's Office  
ACMS Math and Science Academy  
AS Academic Support  
BUS Professional Studies  
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99SC Interdisciplinary/Undeclared  
AGRI Agriculture  
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CHEM Chemistry  
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Office of the Registrar Use

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

Graduate Council \_\_\_\_\_ Provost \_\_\_\_\_ Banner Data \_\_\_\_\_

Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOG 497G
- 1.2 Course title: Spatial Decision Support Systems
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content now offered in GEOS 520. This course has not been taught since prior to 200130.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013

Ogden College Graduate Committee \_\_\_\_\_

Graduate Council \_\_\_\_\_

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**Attachment: Course Inventory Form**

# Office of the Registrar

## COURSE INVENTORY FORM

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Office of the Registrar Use

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

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Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOG 560
- 1.2 Course title: Settlement Geography
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content now offered in other geosciences graduate courses. This course has not been taught since prior to 200130.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013 \_\_\_\_\_

Ogden College Graduate Committee \_\_\_\_\_

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**Attachment: Course Inventory Form**

# Office of the Registrar

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Office of the Registrar Use

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Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOL 405G
- 1.2 Course title: Paleontology
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content now offered in other geosciences graduate courses. This course has not been taught since 200610.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013 \_\_\_\_\_

Ogden College Graduate Committee \_\_\_\_\_

Graduate Council \_\_\_\_\_

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

**Attachment: Course Inventory Form**

# Office of the Registrar

## COURSE INVENTORY FORM

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**Reactivate Suspended Course**

1. **Subject Area** GEOL **Course Number** 405G **Course Title** PALEONTOLOGY
2. **Effective Term for Course Suspension, Deletion, or Reactivation** (e.g. Spring 2012=201210, Fall 2012=201230) 201330
3. **Offering Unit** (See Table of Code Values.) College SC Department GEO

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Office of the Registrar Use

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Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOL 480G
- 1.2 Course title: Coal Geology
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content now offered in other geoscience graduate courses. This course has not been taught since 200210.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013

Ogden College Graduate Committee \_\_\_\_\_

Graduate Council \_\_\_\_\_

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**Attachment: Course Inventory Form**

# Office of the Registrar

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Office of the Registrar Use

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Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOL 490G
- 1.2 Course title: Petroleum Geology
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content now offered in other geosciences graduate courses. This course has not been taught since 200430.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013

Ogden College Graduate Committee \_\_\_\_\_

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**Attachment: Course Inventory Form**

# Office of the Registrar

## COURSE INVENTORY FORM

Check One

**Suspend Course**

**Delete Course**

**Reactivate Suspended Course**

1. **Subject Area** GEOL **Course Number** 490G **Course Title** PETROLEUM GEOLOGY
2. **Effective Term for Course Suspension, Deletion, or Reactivation** (e.g. Spring 2012=201210, Fall 2012=201230) 201330
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Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOL 492G
- 1.2 Course title: Spatial Analysis
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content now offered in GEOS 520. This course has not been taught since prior to 200130.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013

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Proposal Date: 2/14/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOS 560
- 1.2 Course title: Settlement Geography
- 1.3 Credit hours: 3

**2. Rationale for the course deletion:** Content incorporated into other graduate courses.

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

**4. Proposed term for implementation:** Fall 2013

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

Geography and Geology Department: \_\_\_\_\_ 2/14/2013

Ogden College Graduate Committee \_\_\_\_\_

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# Office of the Registrar

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DCS Diversity and Community Studies  
GERO Center for Gerontology  
GS Liberal Arts and Sciences  
HON Honors  
INST Interdisciplinary Studies  
LEAD School of Leadership Studies

### SC Science & Engineering

99SC Interdisciplinary/Undeclared  
AGRI Agriculture  
AMS Architectural and Manufacturing Sciences  
BIOL Biology  
CHEM Chemistry  
CS Computer Science  
ENGR Engineering  
GEO Geography and Geology  
MATH Mathematics  
PHYA Physics and Astronomy

### Question 3 Table of Code Values

#### AR Arts & Letters

99AR Interdisciplinary/Undeclared  
ART Art  
COMM Communication  
ENG English  
FLKA Folk Studies and Anthropology  
GOVT Political Science  
HIST History  
INT International Programs  
JOUR School of Journalism and Broadcasting  
MLNG Modern Languages  
MUS Music  
PHIL Philosophy and Religion  
SOCL Sociology  
THEA Theatre and Dance

#### BU Gordon Ford College of Business

99BU Interdisciplinary/Undeclared  
ACCT Accounting  
BA Business Administration  
CIS Computer Information Systems  
ECON Economics  
FIN Finance  
MGT Management  
MKT Marketing and Sales

#### ED Education & Behavioral Sciences

99ED Interdisciplinary/Undeclared  
CNSA Counseling and Student Affairs  
EALR Educational Adm., Leadership and Research  
EDLD Educational Leadership (doctoral program only)  
MIL Military Science  
PSY Psychology  
TCH School of Teacher Education

Office of the Registrar Use

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

Graduate Council \_\_\_\_\_ Provost \_\_\_\_\_ Banner Data \_\_\_\_\_

Proposal Date: 2/7/2013

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

Contact Person: David Keeling, [david.keeling@wku.edu](mailto:david.keeling@wku.edu), 5-4555

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOL 470G
- 1.2 Course title: Tectonics
- 1.3 Credit hours: 3

**2. Rationale for the course reactivation:** New faculty hire has expertise in course content.

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

**4. Proposed term for implementation:** 201330

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

Geography and Geology Department: \_\_\_\_\_ 2/8/2013

Ogden College Graduate Committee \_\_\_\_\_

Graduate Council \_\_\_\_\_

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

**Attachment: Course Inventory Form**

# Office of the Registrar

## COURSE INVENTORY FORM

Check One

**Suspend Course**

**Delete Course**

**Reactivate Suspended Course**

1. **Subject Area**  **Course Number**  **Course Title**
2. **Effective Term for Course Suspension, Deletion, or Reactivation** (e.g. Spring 2012=201210, Fall 2012=201230)
3. **Offering Unit** (See Table of Code Values.) College  Department

### General Instructions

The University Course Inventory is updated and maintained by the Office of the Registrar. The purpose of this form is to provide data necessary for deleting, suspending, or reactivating suspended courses from the inventory. The form will be prepared by the originating department and accompany course materials submitted to the Undergraduate Curriculum Committee (UCC) or Graduate Council for action. Following approval by the UCC or Graduate Council, University Senate, and Provost, course information will be entered into the Banner student information system.

### EX Exploratory Studies

ACAD Academic Advising and Retention  
ND Non Degree

### GC Graduate Studies

GRAD Graduate Studies Office

### HH Health & Human Services

99HH Interdisciplinary/Undeclared  
ALHL Allied Health  
CD Communication Disorders  
CFS Family and Consumer Sciences  
NURS School of Nursing  
PHY Kinesiology, Recreation and Sport  
PUBH Public Health  
SWRK Social Work

### IS University College

99IS Dean's Office  
ACMS Math and Science Academy  
AS Academic Support  
BUS Professional Studies  
CIT Computer Information Technology  
DCS Diversity and Community Studies  
GERO Center for Gerontology  
GS Liberal Arts and Sciences  
HON Honors  
INST Interdisciplinary Studies  
LEAD School of Leadership Studies

### SC Science & Engineering

99SC Interdisciplinary/Undeclared  
AGRI Agriculture  
AMS Architectural and Manufacturing Sciences  
BIOL Biology  
CHEM Chemistry  
CS Computer Science  
ENGR Engineering  
GEO Geography and Geology  
MATH Mathematics  
PHYA Physics and Astronomy

### Question 3 Table of Code Values

#### AR Arts & Letters

99AR Interdisciplinary/Undeclared  
ART Art  
COMM Communication  
ENG English  
FLKA Folk Studies and Anthropology  
GOVT Political Science  
HIST History  
INT International Programs  
JOUR School of Journalism and Broadcasting  
MLNG Modern Languages  
MUS Music  
PHIL Philosophy and Religion  
SOCL Sociology  
THEA Theatre and Dance

#### BU Gordon Ford College of Business

99BU Interdisciplinary/Undeclared  
ACCT Accounting  
BA Business Administration  
CIS Computer Information Systems  
ECON Economics  
FIN Finance  
MGT Management  
MKT Marketing and Sales

#### ED Education & Behavioral Sciences

99ED Interdisciplinary/Undeclared  
CNSA Counseling and Student Affairs  
EALR Educational Adm., Leadership and Research  
EDLD Educational Leadership (doctoral program only)  
MIL Military Science  
PSY Psychology  
TCH School of Teacher Education

Office of the Registrar Use

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

Graduate Council \_\_\_\_\_ Provost \_\_\_\_\_ Banner Data \_\_\_\_\_

2/11/2013

**Ogden College**  
**Department of Chemistry**  
**Proposal to Create a New Course**  
**(Action Item)**

Contact Person: Les Pesterfield, [lester.pestterfield@wku.edu](mailto:lester.pestterfield@wku.edu), 5-6246

**1. Identification of proposed course:**

- 1.1 Course prefix (subject area) and number: CHEM 421G
- 1.2 Course title: Inorganic Chemistry Laboratory
- 1.3 Abbreviated course title: Inorg Chem Lab
- 1.4 Credit hours and contact hours: 1 hr, 3 hr
- 1.5 Type of course: B: Laboratory
- 1.6 Prerequisites/corequisites: corequisite CHEM 420
- 1.7 Course catalog listing: A laboratory course emphasizing the synthesis and characterization of inorganic compounds of the main group and transition metals. Laboratory meets once a week for three hours. (Course fee)

**2. Rationale:**

- 2.1 Reason for developing the proposed course:  
Historically the Department has used the special topics laboratory course (CHEM 476) to satisfy the inorganic lab recommendation of the American Chemical Society. This has caused confusion for students since all of the lecture/laboratory sequences in the Chemistry Department are sequentially numbered (e.g. 120/121 and 222/223) except for inorganic lecture/laboratory sequence (CHEM 420 and 476). The proposed laboratory permits the inorganic sequence to be brought in line with the remainder of the departmental sequences. CHEM 476 is the special topics laboratory course in the Department corresponding to the special topics lecture course of CHEM 475.
- 2.2 Projected enrollment in the proposed course: 3-5
- 2.3 Relationship of the proposed course to courses now offered by the department:  
The course has traditionally been taught under the CHEM 476 course title. CHEM 476 will retain the special topics designation within the Department.
- 2.4 Relationship of the proposed course to courses offered in other departments:  
No other courses offered at WKU have significant overlap with the proposed lab.
- 2.5 Relationship of the proposed course to courses offered in other institutions: All ACS-certified Chemistry Departments offer either an independent inorganic laboratory or an integrated (inorganic/organic/analytical/physical) laboratory to satisfy the ACS requirements.

**3. Discussion of proposed course:**

3.1 Course objectives:

Chemistry is a laboratory science. Laboratory courses are essential for students to begin to integrate and reinforce concepts presented in lecture. Students will synthesize and characterize a variety of compounds as examples of the fundamental types of bonding in inorganic chemistry: molecular, ionic, polymeric, coordination and metallic. This will allow students to make connections between the theories of bonding and electronic structure presented in lecture and the chemical and physical properties exhibited by compounds.

3.2 Content outline:

- Synthesis and characterization of main group compounds including molecular and polymeric materials.
- Synthesis and characterization of transition metal compounds including alloys and coordination complexes
- Syntheses will make use of aqueous, nonaqueous, solid-state and inert atmosphere techniques.
- Characterization will employ IR, UV-vis and NMR instrumentation.

3.3 Student expectations and requirements:

Students will be given a variety of inorganic compounds to synthesize. Students will characterize their products by physical and instrumental methods and write up their results in formal lab reports. Course grades will be determined by the successful synthesis of the assigned compounds and the formal lab reports. Students enrolled in the G-component of the course will be required to complete two additional synthesis/characterization laboratories and to present their results from one of the laboratories as an oral presentation to the class.

3.4 Tentative texts and course materials:

Microscale Inorganic Chemistry, Z. Szafram, R.M. Pike and M.M. Singh, John Wiley & Sons, 1<sup>st</sup> edition, 1991 (ISBN 0-471-61996-5)  
Experimental Methods in Inorganic Chemistry, J. Tanaka and S.L. Suib, Prentice Hall, 1<sup>st</sup> edition, 1999 (ISBN 0-13-841909-4)  
Inorganic Experiments, J.D. Woollins(editor), Wiley-VCH, 3<sup>rd</sup> edition, 2009 (ISBN 978-3-527-32472-9)

**4. Resources:**

- 4.1 Library resources: See attached library resource form and bibliography  
4.2 Computer resources: No new additional resources are required.

**5. Budget implications:**

- 5.1 Proposed method of staffing: Existing faculty will teach the course.  
5.2 Special equipment needed: Already in place from CHEM 476.  
5.3 Expendable materials needed: Already in place from CHEM 476.  
5.4 Laboratory materials needed: Already in place from CHEM 476.

**6. Proposed term for implementation: Spring 2014**

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

Chemistry Department/Division:	<u>2/13/13</u>
Ogden Curriculum Committee	_____
Professional Education Council (if applicable)	_____
General Education Committee (if applicable)	_____
Undergraduate Curriculum Committee	_____
University Senate	_____

**Attachment: Bibliography, Library Resources Form, Course Inventory Form**

Proposal Date: 2/11/2013

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

Contact Person: Les Pesterfield email: lester.pestterfield@wku.edu Phone: 5-6246

**1. Identification of proposed course:**

- 1.1 Course prefix and number: CHEM 421 / G
- 1.2 Course title: Inorganic Chemistry Laboratory

**Course Bibliography**

Microscale Inorganic Chemistry, Z. Szafram, R.M. Pike and M.M. Singh, 1991.

Experimental Methods in Inorganic Chemistry, J. Tanaka and S.L. Suib, 1999.

Inorganic Experiments, J.D. Woollins(editor), 2009.

The Synthesis and Characterization of Inorganic Compounds, W. L. Jolly, 1970.

Advanced Practical Inorganic Chemistry, D. M. Adams and J. B. Raynor, 1965.

Practical Inorganic Chemistry, G. Pass and H. Sutcliffe, 1968.

Synthesis and Technique in Inorganic Chemistry, R. J. Angelici, 1969.

**LIBRARY RESOURCES, page 1 of 2**  
**Revised April 2008**

Date: 2/11/2013

Proposed Course Name and Number: Inorganic Chemistry Laboratory 421 / G

**Current Library holdings in support of the course are:**

  x   adequate                   inadequate\*  
       library resources not needed for course\*\*

\* Inadequate library support will NOT delay approval. If support is adequate, additional materials may still be recommended.

\*\* Library is not responsible for supporting course if this option is chosen.

**I. Books/Electronic Resources/Other. Please list key titles, whether or not library already owns; attach course reading list, if any; library materials to be placed on reserve; wish list. If reading list not yet compiled, send asap. Attach additional sheet(s) if needed.**

Library has ...

Inorganic Experiments, J. D. Woollins  
The Synthesis and Characterization of Inorganic Compounds, W. L. Jolly  
Advanced Practical Inorganic Chemistry, D. M. Adams and J. B. Raynor  
Practical Inorganic Chemistry, G. Pass and H. Sutcliffe  
Synthesis and Technique in Inorganic Chemistry, R. J. Angelici

Library does not have ...

Microscale Inorganic Chemistry, Z. Szafran, R. M. Pike and M. M. Singh

**II. Key journal titles needed/recommended:**

Library has access to ...

Inorganic Chemistry  
Journal of Chemical Education

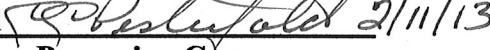
**LIBRARY RESOURCES, page 2 of 2**

**Please submit tentative course proposal to Liaison Librarian before departmental curriculum committee meeting when proposal will be considered. This form will be signed and returned to proponent within three working days.**

**Find Your Liaison Librarian:** [http://www.wku.edu/Library/dlps/lia\\_dept.htm](http://www.wku.edu/Library/dlps/lia_dept.htm)

**Questions or problems?**

Contact Jack Montgomery, [jack.montgomery@wku.edu](mailto:jack.montgomery@wku.edu) Coordinator, Collection Services  
Or UCC Library Representative <http://www.wku.edu/ucc/guidelines.html>

**Les Pesterfield**  2/11/13  
**Faculty Member Proposing Course**

**Charles Smith**  2/11/13  
**Liaison Librarian**

  
**Coordinator, Collection Services**

# Office of the Registrar

## COURSE INVENTORY FORM

Check One  **Create New Course**  
 **Temporary Course Offering**

1. Has this course previously been offered on a temporary basis?  Yes  No If yes, indicate the term offered

2. **Subject Area**  **Course Number**  **Course Title** (as it should appear on the transcript; maximum of 30 letters & spaces)

3. **Term for Implementation** (e.g., Spring 2012=201210, Fall 2012=201230)

4. **Official Course Title**

5. **Offering Unit** (See Table of Code Values.) **College**  **Department**

6. **Credit Hours** Fixed Credit Hours:  Variable Credit Hours

7. **Repeat Limit** (See instructions.)  **Total Maximum Hours** (See instructions.)

8. **Grading** (Check all that apply.)  Standard Letter Grading  Pass/Fail Only  No Grade  
 In Progress – IP (Course is intended to span more than one term.)

9. **Schedule Type** (See Table of Schedule Types.)

10. **Corequisites** (courses required to be taken concurrently with this course)

Subject Area	Course Number	Subject Area	Course Number	Subject Area	Course Number
<input type="text" value="CHEM"/>	<input type="text" value="420"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

11. **Equivalent Courses** (Include Commonwealth School courses and other equivalent courses.)

Subject Area	Course Number	Subject Area	Course Number	Subject Area	Course Number
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

12. **Prerequisites** (See instructions.)

Subject Area	Course Number	Subject Area	Course Number	Subject Area	Course Number
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

13. **Course Attribute**  Other   Honors Course  Developmental Course

14. **Course Restrictions**  Include/ Exclude College  College  Major  Major  Classification

15. **Course Description** (Indicate exactly as it should appear in the University Catalog. Include pertinent special information, e.g., course fees, pass/fail grading, field trips, transportation requirements, etc.)

16. **Approvals:** Department Head Cathleen J. Webb Date 2/13/13  
 Temporary course: College Dean \_\_\_\_\_ Date \_\_\_\_\_  
 Graduate Dean \_\_\_\_\_ Date \_\_\_\_\_  
 Undergraduate Curriculum Committee \_\_\_\_\_ University Senate \_\_\_\_\_  
 Graduate Council \_\_\_\_\_

Office of the Registrar Use				
CIP	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Banner Data	_____			
Course Description	_____			
Evaluate	_____			

Proposal Date: February 11, 2013

**Ogden College of Science and Engineering  
Department of Chemistry  
Proposal to Revise A Program  
(Action Item)**

Contact Person: Cathleen Webb, Cathleen.webb@wku.edu

**1. Identification of program:**

- 1.1 Current program reference number: # 059
- 1.2 Current program title: Master of Science in Chemistry
- 1.3 Credit hours: 30 plus 3 credit hours of research tool

**2. Identification of the proposed program changes:**

- [1]. Reduce the current credit hour requirement to 30 which includes 3 hours of research tool.

**3. Detailed program description:**

Current program Description	Proposed program description
<p><b>Admission Requirements</b> In addition to Graduate Studies admission requirements, candidates for admission to this program must submit evidence of satisfactory completion of undergraduate curricula in chemistry. The Master of Science degree program in Chemistry has been designed around a core curriculum. In addition, a number of elective courses are offered in analytical, inorganic, and physical chemistry, and in biochemistry. This program offers a Master of Science in chemistry in Normal Thesis, and Research Intensive Thesis concentrations.</p> <p><b>Degree Requirements--30-33 hours</b></p> <p><b>Thesis Concentration</b></p> <p><b>All candidates</b> are required to complete a minimum of 30 semester hours of graduate work. Students are required to complete 24 semester hours of course work and 6 hours of thesis research. Students who have completed 3 subject courses at the 500-level with a B average may elect to take CHEM 516 as part of the 24-hour course work requirement.</p> <p><i>Required -12 hours</i> Students must complete 4 out of 5 subject area requirements, and at least two of the courses must be at the 500-level:</p>	<p><b>Admission Requirements</b> In addition to Graduate Studies admission requirements, candidates for admission to this program must submit evidence of satisfactory completion of undergraduate curricula in chemistry. The Master of Science degree program in Chemistry has been designed around a core curriculum. In addition, a number of elective courses are offered in analytical, inorganic, and physical chemistry, and in biochemistry. This program offers a Master of Science in chemistry in Normal Thesis and Research Intensive Thesis concentrations.</p> <p><b>Degree Requirements—30 hours</b></p> <p><b>Thesis Concentration</b></p> <p><b>All candidates</b> are required to complete a minimum of 30 semester hours of graduate work. Students are required to complete 24 semester hours of course work and 6 hours of thesis research. Students who have completed 3 subject courses at the 500-level with a B average may elect to take CHEM 516 as part of the 24-hour course work requirement.</p> <p><i>Required -12 hours</i> Students must complete 4 out of 5 subject area requirements, and at least two of the courses must be at the 500-level:</p>

<p>CHEM 435G Analytical Chemistry  OR CHEM 531 Advanced Analytical Chemistry  CHEM 446G Biochemistry  OR CHEM 535 Analytical Biochemistry  OR CHEM 562 Advanced Biochemistry  CHEM 420G Inorganic Chemistry  OR CHEM 520 Advanced Inorganic Chemistry I  CHEM 440G Organic Synthesis  OR CHEM 541 Advanced Organic Chemistry II  CHEM 452G Physical Chemistry  OR CHEM 450G Physical Chemistry  OR CHEM 550 Advanced Physical Chemistry I</p> <p><i>Investigation Course-3 hours</i>  CHEM 580 Chemical Skills  The student must review the current chemical literature on a selected topic approved by the course instructor, and prepare a written report.</p> <p><i>Required Seminar-2 hours</i>  CHEM 598 Graduate Seminar requirements are to be satisfied according to the current departmental policy.</p> <p><i>Thesis-6 hours</i>  CHEM 599 requirements are to be satisfied by preparing a thesis on the project chosen by the student and approved by the members of the student's graduate committee. These are to be prepared in accordance with the specifications established by the Office of Graduate Studies and Research. A thesis grade will be given after the final thesis has been approved by the student's graduate committee and the Department head.</p> <p><i>Electives</i>  Elective course work may be selected from among the content courses or other advisor approved chemistry courses.</p> <p><i>Thesis Concentration - Coal Chemistry Option</i>  Thesis Requirements with the following courses must be incorporated in the concentration requirements:  CHEM 490G Materials Chemistry  CHEM 591 Coal Chemistry Laboratory</p> <p>Thesis Concentration - Biochemistry Option  Thesis Requirements with the following courses must be incorporated in the concentration requirements:  CHEM 446G Biochemistry  CHEM 447G Biochemistry Laboratory  CHEM 467G Biochemistry II  CHEM 535 Analytical Biochemistry  CHEM 562 Advanced Biochemistry</p> <p><b>Research Intensive Thesis Concentration</b>  Candidates are required to complete 33 semester hours of graduate work, including 17 hours of course work</p>	<p>CHEM 435G Analytical Chemistry  OR CHEM 531 Advanced Analytical Chemistry  CHEM 446G Biochemistry  OR CHEM 535 Analytical Biochemistry  OR CHEM 562 Advanced Biochemistry  CHEM 420G Inorganic Chemistry  OR CHEM 520 Advanced Inorganic Chemistry I  CHEM 440G Organic Synthesis  OR CHEM 541 Advanced Organic Chemistry II  CHEM 452G Physical Chemistry  OR CHEM 450G Physical Chemistry  OR CHEM 550 Advanced Physical Chemistry I</p> <p><i>Investigation Course-3 hours</i>  CHEM 580 Chemical Skills  The student must review the current chemical literature on a selected topic approved by the course instructor, and prepare a written report.</p> <p><i>Required Seminar-2 hours</i>  CHEM 598 Graduate Seminar requirements are to be satisfied according to the current departmental policy.</p> <p><i>Thesis-6 hours</i>  CHEM 599 requirements are to be satisfied by preparing a thesis on the project chosen by the student and approved by the members of the student's graduate committee. These are to be prepared in accordance with the specifications established by the Office of Graduate Studies and Research. A thesis grade will be given after the final thesis has been approved by the student's graduate committee and the Department head.</p> <p><i>Electives</i>  Elective course work may be selected from among the content courses or other advisor approved chemistry courses.</p> <p><i>Thesis Concentration - Coal Chemistry Option</i>  Thesis Requirements with the following courses must be incorporated in the concentration requirements:  CHEM 490G Materials Chemistry  CHEM 591 Coal Chemistry Laboratory</p> <p>Thesis Concentration - Biochemistry Option  Thesis Requirements with the following courses must be incorporated in the concentration requirements:  CHEM 446G Biochemistry  CHEM 447G Biochemistry Laboratory  CHEM 467G Biochemistry II  CHEM 535 Analytical Biochemistry  CHEM 562 Advanced Biochemistry</p> <p><b>Research Intensive Thesis Concentration</b>  Candidates are required to complete 30 semester hours of graduate work, including 17 hours of course work and</p>
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and 16 hours of research-related graduate work.

Candidates must apply to the Department Graduate Committee in order to be considered for this concentration. As part of the concentration application, they must select a research advisor and meet with the committee to demonstrate they understand the requirements for this concentration. The Committee must consider factors such as previous research experience of the student, publication record of the student, and the research advisor's publication record when determining if the student can pursue this concentration. The student and advisor must submit a progress report to the Committee by the end of the second semester. If the committee determines there is insufficient progress towards research and publication, the student will be moved to the normal thesis concentration. A student in the Research Intensive Thesis concentration may also opt to pursue the Thesis option at the end of the first or second semester after consulting with their research advisor.

A student moving to a thesis option within the first or second semester should be able to complete the requirements for the normal thesis option within the normal two year period. A student who wishes to move to the normal option in the second year of graduate study must get permission from the Graduate Committee and will probably require an additional semester of coursework to complete the degree.

*Required -3 hours*

Students must complete one of the following 500-level courses:

CHEM 520 Advanced Inorganic Chemistry  
CHEM 531 Advanced Analytical Chemistry  
CHEM 535 Analytical Biochemistry  
CHEM 541 Advanced Organic Chemistry II  
CHEM 550 Advanced Physical Chemistry I  
CHEM 562 Advanced Biochemistry

*Required Seminar-2 hours*

CHEM 598 Graduate Seminar requirements are to be satisfied according to the current departmental policy.

*Thesis-6 hours*

CHEM 599 requirements are to be satisfied by preparing a thesis on the project chosen by the student and approved by the members of the student's graduate committee. These are to be prepared in accordance with the specifications established by the Office of Graduate Studies and Research. A thesis grade will be given after the final thesis has been approved by the student's graduate committee and the Department head. Students in the Research Intensive Thesis concentration may opt to use their published papers as chapters in their thesis.

16 hours of research-related graduate work.

Candidates must apply to the Department Graduate Committee in order to be considered for this concentration. As part of the concentration application, they must select a research advisor and meet with the committee to demonstrate they understand the requirements for this concentration. The Committee must consider factors such as previous research experience of the student, publication record of the student, and the research advisor's publication record when determining if the student can pursue this concentration. The student and advisor must submit a progress report to the Committee by the end of the second semester. If the committee determines there is insufficient progress towards research and publication, the student will be moved to the normal thesis concentration. A student in the Research Intensive Thesis concentration may also opt to pursue the Thesis option at the end of the first or second semester after consulting with their research advisor.

A student moving to a thesis option within the first or second semester should be able to complete the requirements for the normal thesis option within the normal two year period. A student who wishes to move to the normal option in the second year of graduate study must get permission from the Graduate Committee and will probably require an additional semester of coursework to complete the degree.

*Required -3 hours*

Students must complete one of the following 500-level courses:

CHEM 520 Advanced Inorganic Chemistry  
CHEM 531 Advanced Analytical Chemistry  
CHEM 535 Analytical Biochemistry  
CHEM 541 Advanced Organic Chemistry II  
CHEM 550 Advanced Physical Chemistry I  
CHEM 562 Advanced Biochemistry

*Required Seminar-2 hours*

CHEM 598 Graduate Seminar requirements are to be satisfied according to the current departmental policy.

*Thesis-6 hours*

CHEM 599 requirements are to be satisfied by preparing a thesis on the project chosen by the student and approved by the members of the student's graduate committee. These are to be prepared in accordance with the specifications established by the Office of Graduate Studies and Research. A thesis grade will be given after the final thesis has been approved by the student's graduate committee and the Department head. Students in the Research Intensive Thesis concentration may opt to use their published papers as chapters in their thesis.

<p><i>Electives-3 hours</i> Only one elective course work may be selected from the subject courses or other appropriate chemistry courses approved by the student's graduate committee.</p> <p><i>Research Proposal-3 hours</i> CHEM 588 requires students to prepare a research proposal which must be presented to and approved by the student's research committee and one member of the Department Graduate Committee.</p> <p><i>Practicum Research Experience in Chemistry -10 hours</i> CHEM 596 requirements are to be satisfied by conducting a research project under the direction of the student's research advisor. This course provides faculty-mentored research experiences and emphasizes skill based training for students. Bridging the gap between academic study and professional development, this course will help students to develop and enhance problem solving and communication skills. This course emphasizes mastery of advanced technical skills, independent of thesis research.</p> <p><i>Scientific Writing in Chemistry-6 hours</i> CHEM 595 requires students to prepare and submit two manuscripts based on their research to peer-reviewed journals under the guidance of the student's research committee. At least one paper must be accepted to receive credit and graduate.</p>	<p><i>Electives-3 hours</i> Only one elective course work may be selected from the subject courses or other appropriate chemistry courses approved by the student's graduate committee.</p> <p><i>Research Proposal-3 hours</i> CHEM 588 requires students to prepare a research proposal which must be presented to and approved by the student's research committee and one member of the Department Graduate Committee.</p> <p><i>Practicum Research Experience in Chemistr -10 hours</i> CHEM 596 requirements are to be satisfied by conducting a research project under the direction of the student's research advisor. This course provides faculty-mentored research experiences and emphasizes skill based training for students. Bridging the gap between academic study and professional development, this course will help students to develop and enhance problem solving and communication skills. This course emphasizes mastery of advanced technical skills, independent of thesis research.</p> <p><i>Scientific Writing in Chemistry-6 hours</i> CHEM 595 requires students to prepare and submit two manuscripts based on their research to peer-reviewed journals under the guidance of the student's research committee. At least one paper must be accepted to receive credit and graduate.</p>
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**4. Rationale for the proposed program change:**

Reduce the current credit hour requirement to 30 which includes 3 hours of research tool. This revision is proposed in keeping with the increased emphasis on the research mission of WKU and to be consistar with the programs with other departments in Ogden College.

**5. Proposed term for implementation and special provisions (if applicable):**

2013 fall

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

Department of Chemistry \_\_\_\_\_ 2/11/2013 \_\_\_\_\_

OCSE Curriculum Committee \_\_\_\_\_

Graduate Council \_\_\_\_\_

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

Proposal Date: February 11, 2013

**Ogden College of Science and Engineering  
Department of Chemistry  
Proposal to Drop a Major  
(Action Item)**

Contact Person: Cathleen Webb, Cathleen.webb@wku.edu

**1. Identification of program:**

- 1.1 Current program reference number: # 061
- 1.2 Current program title: Master of Arts in Education: Chemistry
- 1.3 Credit hours: 30 plus 3 credit hours of research tool

**2. Identification of the proposed program changes:**

[1]. Drop Chemistry Education, major (MAE) Ref #061

**3. Detailed program description:**

Current program Description	Proposed program description
<p><b>Master of Arts in Education: Chemistry, major Ref. #061 or minor Ref. #005</b> <b>Admission Requirements</b> Criteria vary, depending on the student's undergraduate institution and GPA:</p> <p>1. WKU Graduate: No qualifying GAP** score will be required for graduates of the WKU B.S. in Chemistry program, as long as they have or are eligible for a teaching certificate for Secondary Chemistry (Grades 8-12). A copy of the certificate or statement of eligibility must be submitted with the application.</p> <p>2. Graduate of a Kentucky Higher Education Institute other than WKU: Applicants with undergraduate degrees from Kentucky higher education accredited universities must have a 2.75 GPA for all previous undergraduate coursework or a qualifying GAP** score and must have or be eligible for a teaching certificate* for Secondary Chemistry (Grades 8-12). A copy of the certificate or statement of eligibility must be submitted with the application.</p> <p>3. Graduate of an Out-of-State Institution of Higher Education Applicants with undergraduate degrees from all other higher education accredited universities must have a 2.75 GPA for all previous undergraduate coursework or a qualifying GRE/GAP** scores and must have or be eligible for a teaching certificate* for Secondary Chemistry (Grades 8-12). A copy of the certificate or statement of eligibility must be submitted with the application.</p> <p>*Kentucky applicants whose certificates have expired may be admitted, but they may enroll for only six hours</p>	<p><b>Master of Arts in Education: Chemistry, minor Ref. #005</b> <i>Admission Requirements</i> Criteria vary, depending on the student's undergraduate institution and GPA. For the chemistry minor, a minimum of 12 graduate credit hours in chemistry is required for a minor. The remaining credit hours must consist of Teacher Leader (TCHL) courses in the School of Teacher Education. For additional information regarding the secondary education aspects of this degree, consult the School of Teacher Education.</p>

before they must apply to the Kentucky Education Professional Standards Board for reissued certificates. After completion of six hours, a student admitted with an expired certificate must submit a copy of the re-issued certificate before being allowed to register for any additional courses. Applicants from out-of-state with expired certificates must complete the requirements for their respective states to renew their certificates and submit a copy of the reissued certificate.

\*\*Qualifying GAP Score: 2200 or higher (GRE score multiplied by the undergraduate GPA for a score) and a GRE Analytical Writing score of 3.5 or higher.

### **Degree Requirements**

This program is designed to develop Teacher Leaders who can positively impact student learning in their classrooms and schools. Courses and experiences include Professional Learning Communities in which students interact with other graduate students from various content areas and grade levels to discuss and work on real world challenges and promising practices they encounter in schools.

An Action Research Project for Teacher Leaders focusing on a classroom, school, or district issue is the capstone for the completion of the program. During the first course in the program, TCHL 500 Foundations of Teacher Leadership, students will complete an assessment process that will be used in determining which TCHL core courses they must take (see Important Note below). All students must either complete TCHL 540, 544, 548, 550, 554, and 558 or pass proficiency evaluations for these courses. TCHL 500, 530, and 560 are required for all students, and there are no proficiency evaluations that may be substituted for these courses.

Important Note: While enrolled in TCHL 500, master's candidates will use several documents, including their KTIP assessments or in-kind examples, dispositions self-surveys, referrals from school personnel, and their respective School Improvement Plan, to develop with their respective program advisors individualized programs of study of 30-34 hours related to Kentucky Teacher Standards and professional goals. Each student's program of study will include some or all of the TCHL courses, at least one content course specific to their initial teaching certification areas, plus additional education-related or content courses.

### *Program Completion Requirements*

A minimum of 18 graduate credit hours in chemistry is required for a major. A minimum of 12 graduate credit hours in chemistry is required for a minor. The remaining credit hours must consist of Teacher Leader (TCHL) courses in the School of Teacher Education. For additional information regarding the secondary education aspects of this degree, consult the School of Teacher Education.

**Teacher Option Requirements**

Students must complete at least one course in four of the six areas of chemistry offered by the department and at least two of the four courses must be at the 500-level.

The courses which may be used to satisfy this requirement are:

CHEM 435G Analytical Chemistry  
OR CHEM 531 Advanced Analytical

Chemistry

CHEM 446G Biochemistry  
OR CHEM 562 Advanced Biochemistry

CHEM 420G Inorganic Chemistry  
OR CHEM 520 Advanced Inorganic Chemistry

I

CHEM 440G Organic Synthesis  
OR CHEM 541 Advanced Organic Chemistry

II

CHEM 452G Physical Chemistry  
OR CHEM 550 Advanced Physical Chemistry

I

CHEM 446G/447G and CHEM 490G/591

No more than 12 of the required 30 hours of graduate work in chemistry can be at the 400G-level.

*Other chemistry courses are as follows:*

CHEM 430G Forensic Chemistry  
CHEM 467G Biochemistry II  
CHEM 450G Physical Chemistry I  
CHEM 475G Advanced Topics in Chemistry  
CHEM 516 Investigations in Chemistry

(maximum of 3 credit hours)

*Additional Requirements for the Teacher Option*

1. Each student must complete at least 7 courses in the above lists.
2. All students must complete 3 hours of CHEM 580 (which counts for the research tool and does not count toward the 30-hour requirement), 2 hours of CHEM 598, and 6 hours of CHEM 599 or 596.

**4. Rationale for the proposed program change:**

No student enrolled in the program since the College of Education changed their program to the Teacher- Leader model.

**5. Proposed term for implementation and special provisions (if applicable):**

2013 fall

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

Department of Chemistry \_\_\_\_\_ 2/11/2013 \_\_\_\_\_

OCSE Curriculum Committee \_\_\_\_\_

Graduate Council \_\_\_\_\_

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

Proposal Date: 1/16/13

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

Contact Person: Jun Yan e-mail: jun.yan@wku.edu Phone: -55982

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOS 520
- 1.2 Current course title: Geoscience Data Analysis
- 1.3 Credit hours: 4

**2. Revise course title:**

- 2.1 Current course title: Geoscience Data Analysis
- 2.2 Proposed course title: Geoscience Statistical Methods
- 2.3 Proposed abbreviated title: Geoscience Statistical Methods
- 2.4 Rationale for revision of course title: The revised title more accurately reflects the focus of the course, with “statistical methods” a more encompassing term than simply data analysis.

**5. Revise course prerequisites:**

- 3.1 Current prerequisites: GEOG 491
- 3.2 Proposed prerequisites: GEOG 391
- 3.3 Rationale for revision of course prerequisites: The course number for the prerequisite was changed some years ago but has not been reflected in the current catalog description.

**6. Proposed term for implementation: Fall 2013**

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

Geography and Geology Department 1/16/2013

Ogden Curriculum Committee \_\_\_\_\_

Graduate Council \_\_\_\_\_

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

**Attachment: Course Inventory Form**

Office of the Registrar

**COURSE INVENTORY FORM**

**Course Revisions**

**Note: If course revision affects subject area, course number, or course title, complete both #1 and #2, and any other proposed changes.  
If course revision does not affect subject area, course number, or course title, complete #1, and any proposed changes ONLY.**

1. **Identification of Existing Course**      Existing Subject Area      GEOS  
    Existing Course Number      520  
    Existing Course Title      Geoscience Data Analysis

2. **Identification of Proposed Course**      Proposed Subject Area        
    Proposed Course Number        
    Proposed Official Course Title      Geoscience Statistical Methods  
    Proposed Abbreviated Title      Geoscience Statistical Methods

**Course Revisions: Check box at left and complete only those items that are being changed. Leave other items blank.**

3. **First effective term for course revision** (e.g. Spring 2010=201010, Fall 2010=201030)      201330

4. **Offering Unit** (See Table of Code Values.)      College SC      Department GEO

5. **Credit Hours**      Fixed Credit Hours:       Variable Credit Hours

6. **Repeat Limit** (See instructions.)       **Total Maximum Hours** (See instructions.)     

7. **Grading** (Check all that apply.)       Standard Letter Grading       Pass/Fail Only       No Grade  
 In Progress – IP (course is intended to span more than one term)

8. **Schedule Type** (See Table of Schedule Types.)                 

9. **Corequisites** (courses required to be taken **concurrently** with this course)  
                  Subject Area      Course Number      Subject Area      Course Number      Subject Area      Course Number  
                                               

10. **Equivalent Courses** (Include Community College courses and other equivalent courses.)  
                  Subject Area      Course Number      Subject Area      Course Number      Subject Area      Course Number  
                                               

11. **Prerequisites** (See instructions.)  
                  Subject Area      Course Number      Subject Area      Course Number      Subject Area      Course Number  
                  GEOG      391                          
 Other

12. **Course Attribute**       Honors Course       Developmental Course

13. **Course Restrictions**       Include/ Exclude      College       College       Major       Major       Classification

14. **Course Description** (Indicate exactly as it should appear in the University Catalog. Include pertinent special information, e.g., course fees, pass/fail grading, field trips, transportation requirements, etc.)

15. **Approvals:**      Department Head \_\_\_\_\_      Date \_\_\_\_\_  
    University Curriculum Committee \_\_\_\_\_      University Senate \_\_\_\_\_  
    Graduate Council \_\_\_\_\_

<b>Office of the Registrar Use</b>	
CIP	<input type="text"/>
Banner Data	_____
Course Description	_____
Evaluate	_____

Proposal Date: 2/11/2013

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

Contact Person: John All ([john.all@wku.edu](mailto:john.all@wku.edu)), 5-5975

**1. Identification of course:**

- 1.1 Current course prefix (subject area) and number: GEOS 584
- 1.2 Course title: Advanced Planning
- 1.3 Credit hours: 3

**2. Revise course title:**

- 2.1 Current course title: Advanced Planning
- 2.2 Proposed course title: Applied Environmental Planning
- 2.3 Proposed abbreviated title: Applied Environmental Planning
- 2.4 Rationale for revision of course title: The proposed title more accurately reflects the content of the course.

**3. Revise course prerequisites:**

- 4.1 Current prerequisites: GEOG 484
- 4.2 Proposed prerequisites: None
- 4.3 Rationale for revision of course prerequisites: GEOG 484 is no longer taught. Students are not admitted to the M.S. Geoscience program, with a concentration in Environmental Science, without sufficient preparation for the program.
- 4.4 Effect on completion of major/minor sequence: None

**4. Revise course catalog listing:**

- 5.1 Current course catalog listing: Analysis of advanced topics and results of recent research in city and regional planning
- 5.2 Proposed course catalog listing: Analysis and application of advanced topics and results of recent research in environmental and general planning.
- 5.3 Rationale for revision of course catalog listing: The proposed revision better describes the nature and focus of the course.

**5. Proposed term for implementation: 201330**

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

Department of Geography and Geology \_\_\_\_\_ 2/15/2013

Ogden College Graduate Committee \_\_\_\_\_

Graduate Council \_\_\_\_\_

University Senate



**Attachment: Course Inventory Form**

**Office of the Registrar**

**COURSE INVENTORY FORM**

**Course Revisions**

**Note: If course revision affects subject area, course number, or course title, complete both #1 and #2, and any other proposed changes.  
If course revision does not affect subject area, course number, or course title, complete #1, and any proposed changes ONLY.**

1. **Identification of Existing Course**      Existing Subject Area      GEOS  
    Existing Course Number      584  
    Existing Course Title      ADVANCED PLANNING

2. **Identification of Proposed Course**      Proposed Subject Area      GEOS  
    Proposed Course Number      584  
    Proposed Official Course Title      APPLIED ENVIRONMENTAL PLANNING  
    Proposed Abbreviated Title      APPLIED ENVIRONMENTAL PLANNING

3. **First effective term for course revision** (e.g. Spring 2012=201210, Fall 2012=201230)      201330

4. **Offering Unit** (See Table of Code Values.)      College      SC      Department      GEOG

**Course Revisions: Check box at left and complete only those items that are being changed. Leave other items blank.**

5. **Credit Hours**      Fixed Credit Hours:       Variable Credit Hours

6. **Repeat Limit** (See instructions.)       **Total Maximum Hours** (See instructions.)     

7. **Grading** (Check all that apply.)       Standard Letter Grading       Pass/Fail Only       No Grade  
 In Progress – IP (course is intended to span more than one term)

8. **Schedule Type** (See Table of Schedule Types.)                 

9. **Corequisites** (courses required to be taken **concurrently** with this course)  
                  Subject Area      Course Number      Subject Area      Course Number      Subject Area      Course Number  
                                               

10. **Equivalent Courses** (Include South Campus [C suffix] courses and other equivalent courses.)  
                  Subject Area      Course Number      Subject Area      Course Number      Subject Area      Course Number  
                                               

11. **Prerequisites** (See instructions.)  
                  Subject Area      Course Number      Subject Area      Course Number      Subject Area      Course Number  
                  NONE      NONE                          
 Other     

12. **Course Attribute**       Honors Course       Developmental Course

13. **Course Restrictions**       Include/ Exclude      College            College            Major            Major            Classification     

14. **Course Description** (Indicate exactly as it should appear in the University Catalog. Include pertinent special information, e.g., course fees, pass/fail grading, field trips, transportation requirements, etc.)  
Analysis and application of advanced topics and results of recent research in environmental and general planning.

Office of the Registrar Use			
UCC _____	University Senate _____	CIP _____	Course Desc _____
Graduate Council _____	Provost _____	Banner Data _____	Evaluate _____

**Ogden College of Science and Engineering  
Department of Geography and Geology  
Proposal to Revise Program  
(Action Item)**

Contact Person: **Kevin B. Cary, M.Sc., GISP and Jun Yan, Ph.D.** e-mail: [kevin.cary@wku.edu](mailto:kevin.cary@wku.edu) and [jun.yan@wku.edu](mailto:jun.yan@wku.edu) Phone: 5-2981 and 5-8952

- 1. Identification of program:**
  - 1.1 Current program reference number: 203
  - 1.2 Current program title: Geographic Information Science (graduate certificate program)
  - 1.3 Credit hours: 12
  
- 2. Identification of the proposed program changes:**
  - 2.1** Change certificate program title to **Graduate Geographic Information Science**
  - 2.2** Make minor changes in program description.
  - 2.3** Decrease number of hours in program from 12 to 10.
  
- 3. Detailed program description:**

Current Program	Proposed Program
Geographic Information Science Certificate	<b>Graduate Geographic Information Science Certificate</b>
<p>Geographic Information Science (GIS) technology is widely used in business, industry, government, and education. This certificate is designed for students in a variety of disciplines that involve spatial analysis, mapping, and interpretation of geospatial data. Students who complete the program will have a solid GIS foundation that spans the collection, management, analysis, interpretation, and display of geospatial data using geographic information systems. Students gain practical experience by completing projects that require the use of sophisticated GIS functions. Finally, they learn how to develop and implement customized GIS applications.</p>	<p><b>Geographic Information Systems</b> (GIS) technology is widely used in business, industry, government, and education. This <b>graduate certificate</b> is designed for students in a variety of disciplines that involve spatial analysis, mapping, and interpretation of geospatial data. Students who complete the program will have a solid GIS foundation that spans the collection, management, analysis, interpretation, and display of geospatial data using geographic information systems. Students gain practical experience by completing projects that require the use of sophisticated GIS functions. Finally, they learn how to develop and implement customized GIS applications.</p>

A series of four graduate courses taken for a minimum of 12 credit hours. At least four different courses must be taken for the certificate.		<b>A series of at least three graduate courses must be taken for a minimum of 10 credit hours.</b>	
<u>Courses selected from</u>		<u>Courses selected from</u>	
GEOG 417G GIS Analysis and Modeling	3	GEOG 417G GIS Analysis and Modeling	3
GEOG 419G GIS Applications Development	3	<b>GEOG 419G GIS Programming</b>	3
GEOS 515 Remote Sensing Applications	4	GEOS 515 Remote Sensing Applications	4
GEOS 517 Spatial Databases	3	GEOS 517 Spatial Databases	3
GEOS 520 Geoscience Statistical Methods	4	GEOS 520 Geoscience Statistical Methods	4
GEOS 523 Urban GIS Apps	3	<b>GEOS 523 Urban GIS Apps</b>	<b>4</b>
GEOS 577 Special Topics in GIS	3	GEOS 577 Special Topics in GIS	3
GEOS 590 Experimental Design	3	GEOS 590 Experimental Design	3
GEOS 595 Geoscience Practicum	3	GEOS 595 Geoscience Practicum	3
PROGRAM TOTAL:	12-13 Hours	PROGRAM TOTAL:	10-11 Hours

**4. Rationale for the proposed program change:**

- Title change from Geographic Information Science to **Graduate Geographic Information Science**. Inserting “Graduate” in the certificate program title emphasizes that it is a graduate certificate and clearly distinguishes it from our undergraduate certificate program in GIS (# 174). Also, changing “Science” to “Systems” reflects the fact that the program’s focus is on technology.
- Minor changes in description of certificate.
  - In the second sentence, insert “graduate” before “certificate” to clarify in the description that this is a graduate certificate.
- In the course list, change GEOG 419G GIS Applications Development to GEOG 419G GIS Programming to reflect the current title of the course.
- In the course list, GEOS 523 Urban GIS Applications is a 4-credit-hour course.
- Decrease minimum number of hours from 12 to 10 and decrease number of courses from four to three to avoid duplicating the maximum of 12 hours of graduate certificate course work allowed in any other degree program or certificate.

**5. Proposed term for implementation and special provisions (if applicable):**

- **Term:** Fall 2013

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

Department of Geography and Geology 1/16/2013

Ogden Graduate Curriculum Committee \_\_\_\_\_

Graduate Council \_\_\_\_\_

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

**Attachment:** [Program Inventory Form](#)