**Course Inventory Change Request**

**New Course Proposal**

**Course: EVRN 736: Environmental Remote Sensing**

**Date Submitted:** 10/17/16 3:53 pm

**Last edit:** 11/02/16 3:11 pm

**Changes proposed by:** avoss

<table>
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<tr>
<th>Academic Career</th>
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<td>Everspring Online</td>
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**Title:** Environmental Remote Sensing

**Transcript Title:** Environmental Remote Sensing

**Effective Term:** Spring 2017

**Catalog Description:** Covers fundamentals of remote sensing, including electromagnetic radiation principles and data collection and processing, followed by an introduction to the various remote sensing techniques and their application in understanding and managing environmental systems. Exercises are provided for students to be actively involved in evaluating, critically analyzing and interpreting images and data to determine implications for practice.

**Prerequisites:** Graduate standing

**Cross Listed Courses:**

<table>
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<tr>
<th>Credits</th>
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**Typically Offered:** Once a Year, Usually Fall

**Repeatable for credit?** No

**Will this course be required for a degree, major, minor, certificate, or concentration?** No

**Rationale for Course Proposal:** The proposed course has been offered as a "topics" course (EVRN 720) in the past. This class is planned to be an option offered as part of a joint EVRN Professional Science Masters and ISP certificate.

**Course Reviewer Comments**

- Rachel Schwien (rschwien) (11/03/16 1:14 pm): requested consultation with Geography
- Rachel Schwien (rschwien) (11/14/16 9:24 am): followed up with dept 11/14
- Rachel Schwien (rschwien) (11/29/16 9:54 am): followed up with dept 11/29
- Rachel Schwien (rschwien) (12/15/16 11:39 am): followed up with dept 12/15
- Rachel Schwien (rschwien) (01/11/17 4:50 pm): GEOG is in support of this course

**Approval Path**

1. CLAS Graduate Program and Course Coordinator
2. CGS PCC Subcommittee
3. CGS Committee
4. CAC
5. Registrar
6. PeopleSoft

**In Workflow**

1. CLAS Graduate Program and Course Coordinator

**EVRN 736: Environmental Remote Sensing**

https://next.catalog.ku.edu/courseleaf/courseleaf.cgi?page=/courseadmin...
## Course Inventory Change Request

### New Course Proposal

**Date Submitted:** 10/17/16 3:56 pm

**Viewing:** EVRN 737: Water Resource Sustainability

**Last edit:** 11/02/16 3:11 pm

Changes proposed by: avoss

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**Do you intend to offer any portion of this course online?**

No

**Title**

Water Resource Sustainability

** Transcript Title**

Water Resource Sustainability

**Effective Term**

Spring 2017

**Catalog Description**

Provides a framework for learning about our water future and ways we might define and achieve sustainability in water use and management. Concerns of ethics, culture, economics, politics, and environmental health will be discussed within the contexts of issues such as the global water crisis, water footprints, water pollution, human water systems, water security, and sustainable water technologies.

**Prerequisites**

Graduate standing

**Cross Listed Courses:**

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**Typically Offered**

Once a Year, Usually Fall

**Repeatable for credit?**

No

**Will this course be required for a degree, major, minor, certificate, or concentration?**

No

**Rationale for Course Proposal**

This class is planned to be an option offered as part of a joint EVRN Professional Science Masters and ISP certificate.

**Course Reviewer Comments**

Rachel Schwien (rschwien) (11/03/16 1:15 pm): requested consultation with Geology

Rachel Schwien (rschwien) (11/14/16 9:25 am): followed up with dept 11/14

Rachel Schwien (rschwien) (11/23/16 9:54 am): followed up with dept 11/29

Rachel Schwien (rschwien) (12/15/16 11:39 am): followed up with dept 12/15

Rachel Schwien (rschwien) (01/09/17 11:42 am): GEOL support received 1/9/17. G. Macpherson

**Approval Path**

1. 10/20/16 4:05 pm

Rachel Schwien (rschwien): Approved for CLAS Graduate Program and Course Coordinator

2. CGS PCC Subcommittee

3. CGS Committee

4. CAC

5. Registrar

6. PeopleSoft
Course Inventory Change Request

New Course Proposal

Date Submitted: 10/17/16 3:58 pm

Viewing: EVRN 743 : Natural Hazards and Environmental Risks

Last edit: 11/02/16 3:12 pm

Changes proposed by: avoss

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Do you intend to offer any portion of this course online?

No

Title

Natural Hazards and Environmental Risks

Transcript Title

Natural Hazards & Env Risks

Effective Term

Spring 2017

Catalog Description

This course investigates the geophysical processes of the earth-atmospheric system that can create disastrous impacts on human life, society, and economics. Hazards, including earthquakes, tsunamis, floods, hurricanes, mass movements, wildfires, and many others, are examined by analyzing spatial and temporal dynamics as well as any precursory indicators that may be present. Attention is also given to management and mitigation strategies. Case studies are utilized to examine interaction between society and natural hazards.

Prerequisites

Graduate standing

Cross Listed Courses:

Credits

3

Course Type

Lecture (Regularly scheduled academic course) (LEC)

Grading Basis

A-D(+/-)FI

Typically Offered

Once a Year, Usually Fall

Repeatable for credit?

No

Will this course be required for a degree, major, minor, certificate, or concentration?

No

Rationale for Course Proposal

This class is planned to be an option offered as part of a joint EVRN Professional Science Masters and ISP certificate.

Course Reviewer Comments

Rachel Schwien (rschwien) (11/03/16 1:15 pm): requested consultation with Geology

Rachel Schwien (rschwien) (11/14/16 9:25 am): followed up with dept 11/14

Rachel Schwien (rschwien) (11/29/16 9:54 am): followed up with dept 11/29

Rachel Schwien (rschwien) (12/15/16 11:39 am): followed up with dept 12/15

Rachel Schwien (rschwien) (01/09/17 11:42 am): GEOL support received 1/9/17. G. Macpherson

Approval Path

1. 10/20/16 4:05 pm

Rachel Schwien (rschwien): Approved for CLAS Graduate Program and Course Coordinator

In Workflow

1. CLAS Graduate Program and Course Coordinator

2. CGS PCC Subcommittee

3. CGS Committee

4. CAC

5. Registrar

6. PeopleSoft
# Course Inventory Change Request

## New Course Proposal

**Date Submitted:** 10/17/16 3:59 pm

**Viewing:** EVRN 747: Fluvial Geomorphology

**Last edit:** 11/02/16 3:12 pm

**Changes proposed by:** avoss

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**Do you intend to offer any portion of this course online?**

- No

**Title**

Fluvial Geomorphology

**Transcript Title**

Fluvial Geomorphology

**Effective Term**

Spring 2017

**Catalog Description**

This course develops an understanding of the research processes as applied to river systems by means of qualitative and quantitative research methods and approaches to solve problems. Applications of fluvial principles to river management and stream restoration are examined, as well as interactions between land use and geomorphic processes.

**Prerequisites**

Graduate standing

**Cross Listed Courses:**

- Graduate standing

**Credits**

3

**Course Type**

Lecture (Regularly scheduled academic course) (LEC)

**Grading Basis**

A-D(+/-)FI

**Typically Offered**

Once a Year, Usually Fall

**Repeatable for credit?**

- No

**Will this course be required for a degree, major, minor, certificate, or concentration?**

- No

**Rationale for Course Proposal**

This class is planned to be an option offered as part of a joint EVRN Professional Science Masters and ISP certificate.

**Course Reviewer Comments**

Rachel Schwien (rschwien) (11/03/16 1:15 pm): requested consultation with Geology

Rachel Schwien (rschwien) (11/14/16 9:25 am): followed up with dept 11/14

Rachel Schwien (rschwien) (11/29/16 9:54 am): followed up with dept 11/29

Rachel Schwien (rschwien) (12/15/16 11:39 am): followed up with dept 12/15

Rachel Schwien (rschwien) (01/09/17 11:42 am): GEOL support received 1/9/17. G. Macpherson
GEOL 755: Site Assessment and Remediation

Catalog Description

Site Assessment and Remediation encompasses both the academic and applied aspects of environmental geology. The student is presented with the historical, regulatory and risk characteristics of environmental issues as well as specific geologic principles such as GIS and remote sensing, geophysics, geomorphology and surface and groundwater practices. Site assessment concepts include surface and subsurface sampling, analyses and interpretations, conceptual site models, environmental geologic forensics, and environmental Phase I site assessments (USEPA and ASTM). Environmental geology project management principles and practices are examined in detail. These cores aspects of the course form the basic structure in understanding and applying environmental remediation and state-of-the-art/state-of-the-practice processes. Case studies are researched and analyzed for both the assessment and remediation phases of the program.

Prerequisites

GEOL 751

Typically Offered

Every Two Years

Repeatable for credit?

No

Will this course be required for a degree, major, minor, certificate, or concentration?

Yes

Which Program(s)?

LA&S-PSM) Environmental Geology, P.S.M.

(GEOC-CRTG) Graduate Certificate in Environmental Geology

Describe how:

One of four required graduate science courses for program and certificate.