3 Sept 2013

Graduate Committee on Curriculum and Special Programs
College of Charleston

I support the proposal by Dr. John Chadwick to change the name of EVSS 642 from “Geological Applications of Remote Sensing” to “Fundamentals of Remote Sensing” and to change the description to better reflect the broader scope and appeal of this course. Remote sensing theory and applications are of increasing interest and use by many environmental scientists, planners, and managers and we are pleased to support Dr. Chadwick’s work to increase the opportunities for Environmental Studies students to learn more about this field.

Attached is the course proposal form and a syllabus.

Sincerely,

[Signature]

Tim Callahan
Contact Name: John Chadwick    Email: chadwickj@cofc.edu    Phone: 953-5950

Department Name: EVSS    Graduate Program name: Master of Science in Environmental Studies

Course Prefix, Number, and Title: EVSS 642 and EVSS 642 Lab    Old title: Geological Applications of Remote Sensing
New Title: Fundamentals of Remote Sensing

1. CATEGORY OF REVIEW (Check all that apply)

<table>
<thead>
<tr>
<th>NEW COURSE</th>
<th>CHANGE COURSE</th>
<th>DELETE COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ New Course (attach syllabus*)</td>
<td>☐ Change Number (IV, VII, VIII, IX)</td>
<td>☐ Delete Course (IV, VII, IX)</td>
</tr>
<tr>
<td>☒ Change Title (IV, VII, VIII, IX)</td>
<td>☐ Change Credits/Contact hours (II, IV, VII, IX)</td>
<td>☐ Prerequisite Change (IV, VII, VIII, IX)</td>
</tr>
<tr>
<td>☐</td>
<td>☒ Edit Description (III, IV, VII, VIII, IX)</td>
<td></td>
</tr>
</tbody>
</table>

☐ Approve for Cross-listing (attach Graduate Permission to Cross-list Form)

Date (Semester/Year) the course will first be offered, course changes or deletion will go into effect: Fall 2013

NEW COURSE:

*ATTACH THE SYLLABUS FOR A NEW GRADUATE COURSE to include:

- Course description and objectives
- Method of teaching (e.g., lecture, seminar, on-line, hybrid)
- Required and optional texts and materials
- Graduate School Grading Scale
- Assignments, student learning outcomes and assessment components
- Policies to include attendance, Honor Code, American Disabilities Act statement
- Tentative course schedule with specific topics
List prerequisites and / or other restrictions below

None.

Will this course be added to the Degree Requirements?

a) ☐ Yes  ☒ No

b) If yes, explain

II. NUMBER OF CREDITS and CONTACT HOURS per week

<table>
<thead>
<tr>
<th></th>
<th>Lecture</th>
<th>Lab</th>
<th>Seminar</th>
<th>Ind. Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Contact Hours</td>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. Credit Hours</td>
<td>4</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Is this course repeatable? ☐ yes  ☒ no  If so, how many credit hours may the student earn in this course?

III. CATALOG DESCRIPTION Limit to 50 words EXACTLY as you want it to appear in the catalog; include prerequisites, co-requisites, and other restrictions. If changing course description, please include both old and new course descriptions.

**Old course description:** Course will cover the fundamentals and applications of remote sensing. Topics include: remote sensing theory, data collection, reduction and application, computer software tools, data acquisition and ties to geographic information systems (GIS). The course emphasis is on environmental problems. Prerequisite: Background or experience in remote sensing, or GEOL 314.

**New course description:** Course includes fundamentals of remote sensing and digital image processing for applications in earth and environmental sciences, including concepts of electromagnetic radiation, satellite image data collection, reduction and application, software tools, data acquisition, and ground truthing. Lectures: three hours per week; laboratory: three hours per week. Prerequisite: graduate standing and permission of the instructor.
IV. RATIONALE / JUSTIFICATION: If course change – please indicate the course change details. If course change or deletion—please provide reasons for change(s) to or deletion of a course. If a new course—briefly address the goals/objectives for the course and the relationship to the strategic plan.

These changes will update the title and course description to more accurately represent the course content.

V. STUDENT LEARNING OUTCOMES and ASSESSMENT

<table>
<thead>
<tr>
<th>Student Learning Outcomes</th>
<th>Assessment Method and Performance Expected</th>
</tr>
</thead>
<tbody>
<tr>
<td>What will students know and be able to do when they complete the course?</td>
<td>How will each outcome be measured? Who will be assessed, when, and how often? How well should students be able to do on the assessment?</td>
</tr>
</tbody>
</table>

How does this course align with the student learning outcomes articulated for the major, program, or general education? What program-level outcome or outcomes does it support? Is the content or skill introduced, reinforced, or demonstrated in this course?

VII. IMPACT ON EXISTING PROGRAMS and COURSES: Please briefly document the impact and expected changes of this new/changed/deleted course on other departments, programs and courses; if deleting a course—list all departments and programs that include the course; if adding/changing a course—explain any overlap with existing courses in the same or different departments; if adding or deleting a course that will be part of a joint program identify the partner institution.

No impact. These changes will update the title and course description.

VIII. COSTS ASSOCIATED WITH THE ACTION REQUESTED: List all of the new costs or cost savings, (including new faculty/staff requests, library or equipment, etc.) associated with the action requested. New courses requiring additional resources will need special justification.

No new costs or cost savings applicable; this is a course renaming and revised course description proposal.

None
IX. APPROVAL AND SIGNATURES

Signature of Program Director:

Date: 10 Sept 2013

Signature of Department Chair:

Date: 9/10/13

Signature of Additional Chair*:

Date: 

Signature of Schools’ Dean:

Date: 9/11/13

Signature of Additional Schools’ Dean*:

Date: 9/12/13

Signature of the Provost:

Date: 9/29/13

Signature of Budget Director/Business Affairs Office:

Date: 9/30/13

*For interdisciplinary courses

Return form to the Graduate School Office for Further Processing

Signature of Chair of the Faculty Committee on Graduate Education, Continuing Education & Special Programs:

Date: 10/18/13

Signature of Chair of the Graduate Council:

Date: 10/18/13

Signature of Faculty Senate Secretary:

Date: 

Date Approved by Faculty Senate: 

September 2011