

APPLICATION FOR CHANGE IN EXISTING COURSE: MAJOR and MINOR

1. Submitted by the College of _____ Date: _____

Department/Division offering course: _____

2. What type of change is being proposed? Major Minor*

*See the description at the end of this form regarding what constitutes a minor change. Minor changes are sent directly from the dean of the college to the Chair of the Senate Council.

If the Senate Council chair deems the change not to be minor, the form will be sent to the appropriate Council for normal processing and an email notification will be sent to the contact person.

PROPOSED CHANGES

Please complete all "Current" fields.

Fill out the "Proposed" field only for items being changed. Enter N/A if not changing.

Circle the number for each item(s) being changed. For example: (6.)

3. Current prefix & number: _____ Proposed prefix & number: _____

4. Current Title _____

Proposed Title[†] _____

[†]If title is longer than 24 characters (including spaces), write a sensible title (24 characters or less) for use on transcripts:

5. Current number of credit hours: _____ Proposed number of credit hours: _____

6. Currently, is this course repeatable? YES NO If YES, current maximum credit hours: _____

Proposed to be repeatable? YES NO If YES, proposed maximum credit hours: _____

7. Current grading system: Letter (A, B, C, etc.) Pass/Fail

Proposed grading system: Letter (A, B, C, etc.) Pass/Fail

8. Courses must be described by at least one of the categories below. Include the number of actual contact hours per week for each category, as applicable.

Current:

() CLINICAL () COLLOQUIUM () DISCUSSION () LABORATORY () LECTURE

() INDEPEND. STUDY () PRACTICUM () RECITATION () RESEARCH () RESIDENCY

() SEMINAR () STUDIO () OTHER – Please explain: _____

Proposed:

() CLINICAL () COLLOQUIUM () DISCUSSION () LABORATORY () LECTURE

() INDEPEND. STUDY () PRACTICUM () RECITATION () RESEARCH () RESIDENCY

() SEMINAR () STUDIO () OTHER – Please explain: _____

9. Requested effective date (term/year): _____ / _____

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10. Current teaching method: N/A Community-Based Experience Service Learning Component Both

Proposed teaching method (if applicable): Community-Based Experience Service Learning Component Both

11. Current cross-listing: N/A _____
Prefix and Number NAME of current cross-listing DEPARTMENT

a. Proposed – REMOVE the current cross-listing:

b. Proposed – ADD a cross-listing: _____
Prefix and Number Signature of chair of proposed cross-listing department

12. Current prerequisites:

Proposed prerequisites:



13. Current Bulletin description:

Proposed Bulletin description:

14. What has prompted this change?

15. If there are to be significant changes in the content or teaching objectives of this course, indicate changes:

16. Please list any other department that could be affected by the proposed change:

17. Will changing this course change the degree requirements for ANY program on campus? YES NO
If YES[‡], list below the programs that require this course:

[‡]In order for the course change to be considered, program change form(s) for the programs above must also be submitted.

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18. Is this course currently included in the University Studies Program? Yes No

19. Check box if changed to 400G or 500. If changed to 400G- or 500-level, you must include a syllabus showing differentiation for undergraduate and graduate students by (i) requiring additional assignments by the graduate students; and/or (ii) the establishment of different grading criteria in the course for graduate students. (See *SR 3.1.4*)

20. Within the department, who should be contacted for further information on the proposed course change?

Name: _____ Phone: _____ Email: _____

21. Signatures to report approvals:

DATE of Approval by Department Faculty	/	<div style="display: flex; justify-content: space-between;"> printed name Reported by Department Chair signature </div>
DATE of Approval by College Faculty	/	<div style="display: flex; justify-content: space-between;"> printed name Reported by College Dean signature </div>
*DATE of Approval by Undergraduate Council	/	<div style="display: flex; justify-content: space-between;"> printed name Reported by Undergraduate Council Chair signature </div>
*DATE of Approval by Graduate Council	/	<div style="display: flex; justify-content: space-between;"> printed name Reported by Graduate Council Chair signature </div>
*DATE of Approval by Health Care Colleges Council (HCCC)	/	<div style="display: flex; justify-content: space-between;"> printed name Reported by Health Care Colleges Council Chair signature </div>
*DATE of Approval by Senate Council		Reported by Office of the Senate Council
*DATE of Approval by the University Senate		Reported by the Office of the Senate Council

*If applicable, as provided by the *University Senate Rules*.

Excerpt from *University Senate Rules*:

SR 3.3.0.G.2: Definition. A request may be considered a minor change if it meets one of the following criteria:

- a. change in number within the same hundred series;
- b. editorial change in the course title or description which does not imply change in content or emphasis;
- c. a change in prerequisite(s) which does not imply change in content or emphasis, or which is made necessary by the elimination or significant alteration of the prerequisite(s);
- d. a cross-listing of a course under conditions set forth in *SR 3.3.0.E*;
- e. correction of typographical errors.

Course Syllabus

FOR 200

Basics of Geospatial Technology

Class Period

Lecture: 1 hour per week

Lab: 3 hours per week

Instructor

Dr. J. M. Ringe

Room 108 T.P. Cooper Building

859-257-7594

jringe@uky.edu

COURSE OVERVIEW

Course Description

A basic introduction to the various types of maps and their uses, field navigation skills, and map making. The course is heavily field and laboratory based, with an emphasis on hands-on learning and practice. Both traditional technologies, such as compasses, U.S. Geological Survey maps, and aerial photographs as well as newer technologies, such as global positioning systems and geographic information system databases will be employed in carrying out course exercises.

Student Learning Outcomes

At the end of this course, the student will be able to demonstrate the following skills.

1. Interpret individual maps (topographic map, aerial photo, field map, soils map, geology map, digital image) and synthesize data from multiple maps to describe a particular site.
2. Demonstrate the correct usage of a compass to find direction and navigate in the field by taking and following azimuths, triangulating, pacing, and setting a declination.
3. Construct digital and hand-written field and land classification maps using compass and pacing, global positioning systems (GPS), topographic maps, aerial photos, field maps, soils maps, geology maps, and digital images.
4. Demonstrate the correct usage of a GPS unit in the field to collect data and construct maps with the data using computer software to make corrections to the GPS data and incorporate GPS data into existing geographic information system databases.
5. Construct aesthetic, accurate maps using your knowledge of proper map design skills.
6. Knowledge of basic geographic information concepts including remote sensing imagery, map projections, and modeling earth.

Grading Procedures – Assignments, Grading Criteria, Letter Grades

Grades will be determined from attendance and in-class exercises (40%), a mid-term exam (30%), and a final exam (30%). Attendance is recorded after the student completes the class exercise and returns borrowed equipment. The attendance policy is described on page 3.

Final grades will be assigned as follows:

Letter Grades

A: $\geq 90\%$

B: $\geq 80\%$ and $< 90\%$

C: $\geq 70\%$ and $< 80\%$

D: $\geq 60\%$ and $< 70\%$

E: $< 60\%$

Course Outline

Week 1 – Introduction to topographic maps, contour lines, feature shapes, scales, distances, coordinate systems

Week 2 – Determining cross-sections from topographic maps, calculating elevations, elevation differences and slope characteristics

Week 3 – Introduction to compasses, determining and following azimuths, determining pace, compass and pacing traverses

Week 4 – Using map and compass together, declinations, navigating around obstacles, location of landmarks through triangulation

Week 5 – Introduction to aerial photos, plotting aerial boundaries on maps

Week 6 – Stereovision, creating stereo pairs, determining photo scales from maps and ground truthing

Week 7 – Determination of area on maps and photos

Week 8 – Determining angles on photos and heights from stereopairs

Week 9 – Making field maps

Week 10 – Plotting boundaries from deeds

Week 11 – Introduction to GPS

Week 12 – Creating boundary surveys and permanent landmarks with GPS

Week 13 – Introduction to GIS

COURSE POLICIES

Attendance and Excused Absences

Attendance is recorded after the student completes the class exercise and returns the borrowed equipment.

Lectures: Attending lectures is required (and expected) of all students. Skipping class is not acting in your best interest, will most likely adversely affect your grade, is disrespectful of your instructor, and is not professional behavior.

Lab Sessions: Attending lab sessions is required of all students. Missing labs will cause you extreme difficulty on the lab exams. Make-up labs will be given only for excused absences.

Exams: Make-up exams and quizzes (Lab or Lecture) will be given only to students who miss an exam as a result of excused absences. In all other circumstances, a grade of 0 (zero) will result for the missed exam or quiz.

Academic Integrity, Cheating and Plagiarism

Cheating of any form, including plagiarism, will not be tolerated. Cheating will be dealt with in accordance with University regulations. (See <http://www.uky.edu/StudentAffairs/Code/>)

Professional Preparation

This course helps prepare you for your professional career. You are expected to attend class, be on time, participate in class discussions, and be respectful of your instructor and fellow classmates.

Disability Statement

Students with a disability that need classroom or exam accommodations should contact the Disability Resource Center, 257-2754, room 2 Alumni Gym, jkarnes@uky.edu .