UNIVERSITY OF HAWAI’I AT MĀNOA
UHM-1 FORM (ADD A COURSE OF STUDY)

1. Course Subject
   NREM

2. Proposed Course Number
   477

3. Effective Term (Sem/Year)
   Spring/2005

4. Frequency
   - Fall & Spring semester
   - Fall semester only
   - Spring semester only
   - Once a year
   - Once every other year

5. Course Title
   Geographic Information Systems for Resource Managers

5a. Full Course Title
   GIS for Resource Managers

5b. BANNER Course Title (30 characters or less)
   GIS for Resource Managers

6. Offering (check one)
   - Regular
   - Experimental
     (two academic years)
   - Single (one term)

7. Core or Graduation Requirement (check one)
   - Request approval of the DRY Diversification or Hawaiian/Second Language designation (DA, DH, DL, DB, DP, DY, DS or HSL).
   - Request approval of the Foundations designation (FW, FS, or FG).
   - Do not consider course for a General Education Core or Graduation Requirement.

8. Grade Option (check all that apply)
   - Letter Grade (L)
   - Credit/No Credit (C)
   - Audit (A)
   - Satisfactory/Unsatisfactory (S)
   - Graduate courses numbered 500, 700, and 800 only
   - No Grading (X)

9. Number of Credits
   If variable credit (V), give range:
   - 3

10. Repeat Limit
    0

11. Credit Limit
    3

12. Corequisite Course(s)
    None

13. Major Restriction(s)
    None

14. Prerequisite Course(s)
    Enter course alpha and number for each prerequisite. Use "or" or "and" instead of punctuation. Type "or (concurrent)" after each prerequisite course that may be taken concurrently. Also specify what type of waiver is acceptable (check only one).

   Either NREM 310 or MATH 140 or MATH 373, and either GEG 370 (or concurrent) or GEG 375 (or concurrent) or GEG 387 (or concurrent), and NREM 301

15. Contact Hours and Instruction Type
    Specify number of minutes per week for appropriate instruction type(s). For courses with variable credits, check all applicable instruction types.

   - Lecture (LEC) 100
   - Laboratory (LAB) 150
   - Discussion (DIS) 60
   - Seminar (SEM) 60
   - Online Instruction (WEB) 60
   - Thesis/Dissertation (THESIS) 60
   - Lecture/Laboratory combined (LEL) 60
   - Lecture/Discussion combined (LED) 60
   - Directed Reading or Research/Independent Study (CRR) 60
   - Field Experience/Internship/Practicum (PRA) 60
   - Two-way Video/Interactive TV (TV) 60

16. Cross-listed Course(s)
    Course Alpha & Number  Chair  Signature  Date
    Course Alpha & Number  Chair  Signature  Date

17. Catalog Description
    This section will appear in the Catalog. Limit description to 35 words: up to 85 words for alpha courses. Read instructions carefully before completing this section.

    Combined lecture-lab course on the basic concepts and principles of geographic information systems, remote sensing, and global positioning system. Practical skills to be developed by solving real natural resources and environmental problems.

18. Justification
    Read instructions on reverse side. Attach sheets as needed.

    See the attachment.

Requested by
   Department/Unit  Chair/Director  Signature  Date
   "Coll Everson"  9-20-04

Approved by
   1st College or School  Dean  Signature  Date
   2nd College or School  Dean  Signature  Date
   Graduate Division (650 level and above)
   Dean  Signature  Date
   General Education
   Signatures  Date
   Mānoa Chancellor's Office
   Chancellor  Signature  Date