

FORM B: NEW COURSE PROPOSAL

College/School/Department: Computer Science

Date:

Proposed Course: CS 495 Databases for Scientists

Faculty member(s) preparing this course proposal: Randy Appleton

Academic year proposed course is to be first offered: Winter 2014

- 1. Provide the NEW bulletin copy. Include the course number; title; number of hours per week of lecture and/or recitation and laboratory; number of credits; prerequisites and/or co-requisites; course description (max 75 words); and whether the course may be repeated for credit as well as how many times this may occur.**

CS 495 Databases for Scientists

Prerequisite: Permission of Instructor

4 Credits

This is a fast paced course designed to teach scientists how to manage large datasets. This is a practical course teaching SQL, database design, querying and data manipulation.

May not be repeated. Four lecture hours per week.

- 2. Describe the benefits that will accrue to the department and students as a result of establishing this course.**

This is a course designed for graduate and upper level undergraduate scientists, to teach them how to use databases. It was designed with this in mind.

We expect most students in the course will be Biology and Mathematics students.

- 3. Details of instructional goals and learning outcomes: List the principal instructional objectives which this course is designed to accomplish, preferably stated in terms of what students should gain from the course.**

See Syllabus.

- 4. Provide a rationale for designating the course number and level as well as the maximum number of students to be enrolled in each section:**

This is a course designed for graduate and upper level undergraduate scientists, and therefore, must be a 400 level course. The content has been designed accordingly.

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- 5. Please upload a syllabus named 'syllabus - XX###' (syllabus - course number) as a .pdf file. It should specify the major areas of content, course objectives, and outline indicating approximate percentage of time to be spent in each area. List suggested texts as well.**

Done

- 6. Provide information on how the course fits into the school's/department's curriculum and affects other curricula on campus. Be sure to indicate changes in free electives as well.**

- a. Relationship with other courses in the department:
Indicate if the course is required, a departmental elective or a free elective.**

We expect few Computer Science majors to take this course; we expect many biology and mathematics students, and a few other sciences.

- b. If this change affects requirements for a major or minor, attach the appropriate curricula revision form(s) for the area affected.**

None

- c. Other schools' or departments' courses that may be affected through duplication of content, allocation of necessary material, prerequisites, etc.**

None

- d. Synopsis of responses from affected departments. Letters of support and department head responses do not need to be submitted, but may be requested to be submitted by CUP at a later date.**

Biology and Mathematics have encouraged us to offer this course.

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- 7. Describe the resources (library holdings, filmstrips/videos, laboratory space, equipment, budget for consumables, computer, audio visuals, etc.) available to fulfill the instructional objectives of the revised course. If not available, specify the needs/costs and funding sources on an attached sheet.**

See Syllabus

- 8. What personnel resources (adjunct, overload, reallocation, new position) will be utilized to teach this course?**

An instructor has already been identified and is interested.

- 9. Dates of notification**

- a. Faculty:**
- b. Department Heads:**
- c. Deans:**

- 10. Is this change supported by the**

- a. Faculty:**
- b. Department Heads: YES**

Deans: Yes/No