This is a proposal for the conversion of the Citation in Hydrology to a Minor in Hydrology. See attached.

JUSTIFICATION/REASONS/RESOURCES (Briefly explain the reason for the proposed action. Identify the source of new resources that may be required. Details should be provided in an attachment.)

To assure compliance with the University Senate’s and President’s mandated phaseout of departmental citations. This change requires no additional resources. See attached.
May 11, 2004

MEMORANDUM

TO: Stephen Halperin
   Dean, College of Computer, Mathematical and Physical Sciences

FROM: Victor Korenman
      Associate Provost for Academic Planning and Programs

SUBJECT: Proposal to Convert the Existing Citation in Hydrology to a Minor in Hydrology
         (PCC Log No. 03051)

At its meeting on May 6, 2004, the Senate Committee on Programs, Curricula, and Courses approved your proposal to convert the existing citation in Hydrology to a Minor in Hydrology. A copy of the approved proposal is enclosed.

This approval is effective in Fall, 2004. All advisors should be notified and the College should ensure that the approved guidelines are followed.

VK: sfm
Enclosure

Cc: Dr. Sylvester J. Gates, Chair, Senate PCC
    Dr. Mary Giles, University Senate
    Ms. Barbara Hope, Data Administration
    Dr. Phyllis Peres, Undergraduate Studies
    Ms. Anne Turkos, Archives
    Dr. Scott Wolpert, College of Computer, Mathematical and Physical Sciences
    Dr. Linda Yokoi, Records & Registrations
Proposal for a Minor in Hydrology

1. This is a proposal to convert an existing citation into a minor.

2. Catalog Description

This minor will provide students with a sophisticated understanding of geological processes in which fresh water plays an essential role. Building on a three-course base of fundamental knowledge about geological processes, the program is completed by two advanced courses in geochemistry and/or hydrology. Students attempting this minor will need a strong background in Chemistry at the level of CHEM 103. Depending on the advanced courses chosen, MATH 220 or MATH 140 may also be prerequisites. This minor will be of particular relevance to students with broad interests in Geology, Chemistry, Environmental Studies, and Fluid Dynamics.

Courses required for the minor are:

- One of the following:
  - GEOL 100/110 Physical Geology (4)
  - GEOL 120/110 Environmental Geology (4)
- GEOL 322 Mineralogy (4)
- GEOL 342 Sedimentation and Stratigraphy (4)

In addition, the student must choose two from the following:

- GEOL 436 Biogeochemistry (3)
- GEOL 445 Principles of Geochemistry (3)
- GEOL 451 Groundwater (3)
- GEOL 452 Watershed and Wetland Hydrology (3)

There is a total of 18 required credits. All courses presented for the minor must be passed with a grade of C or better.

Declared Geology majors and students who have completed the major may not also minor in Hydrology.

The proposed curriculum differs from the current Hydrology Citation in two respects:

- It allows students to choose between GEOL 100 and GEOL 120. This is consistent with current revisions to prerequisites in GEOL undergraduate courses.
- GEOL 322 Mineralogy, a prerequisite for the required course GEOL 342 is acknowledged as a required course.

3. Oversight and Record Keeping

Oversight of this minor program will be through the normal academic processes of the Department of Geology. The department's Undergraduate Director will be responsible for
ensuring that students are properly advised and that records are appropriately kept.

4. Prerequisites

CHEM 103 is not included as a specific minor requirement because it is likely already to be part of the major requirements for students who will be interested in this minor. MATH 220 and MATH 140 are omitted, because they are not prerequisites for any required course of the minor.