DATE SUBMITTED: 4/12/2004

COLLEGE/SCHOOL: CMPS

DEPARTMENT/PROGRAM: GEOL

PROPOSED ACTION (A separate form for each) ADD____ DELETE_____ CHANGE X

DESCRIPTION (Provide a succinct account of the proposed action. Details should be provided in an attachment. Provide old and new sample programs for curriculum changes.)

This is a proposal for the conversion of the Citation in Earth Material Properties to a Minor in Earth Material Properties. 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.

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APPROVAL SIGNATURES

1. Department Committee Chair

2. Department Chair

3. College/School PCC Chair

4. Dean

5. Dean of the Graduate School (if required)

6. Chair, Senate PCC

7. Chair of Senate

8. Vice President for Academic Affairs & Provost

DATE

4/12/04

4/12/04

4/21/04

4/21/04

5/6/04

5/6/04

5/6/04

VPAAP Rev. 3/1/04
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 Earth Material Properties to a Minor in Earth Material Properties (PCC Log No. 03050)

At its meeting on May 6, 2004, the Senate Committee on Programs, Curricula, and Courses approved your proposal to convert the existing citation in Earth Material Properties to a Minor in Earth Material Properties. 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 Earth Material Properties

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 the origin, chemistry, and physical properties of the materials making up the solid Earth, and how they shape Earth processes. Building on a two-course base of fundamental knowledge of Earth materials, the program is completed by two advanced courses addressing their properties and behaviors at either a microscopic or global scale. Students attempting this minor will need a strong background in Chemistry at the level of CHEM 103. Depending on the advanced courses chosen, GEOL 102 (Historical Geology) and GEOL 423 (Optical Mineralogy) may also be prerequisites or corequisites. This minor will be of particular relevance to students with broad interests in Geology, material sciences, Chemistry, and solid-state Physics.

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)

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

- GEOL 341 Structural Geology (4)
- GEOL 423 Optical Mineralogy (3)
- GEOL 443 Petrology (4)
- GEOL 445 Principles of Geochemistry (4)

Depending on the optional course taken, there are a total of 15 - 16 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 Earth Material Properties.

The proposed curriculum differs from the current Earth History Citation in that:
- It allows students to choose between GEOL 100 and GEOL 120. This is consistent with current revisions to prerequisites in GEOL undergraduate courses.
- GEOL 210 Gems and Gemstones has been dropped from the list of optional courses.

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 interested students. GEOL 102 and GEOL 423 are omitted because they are not prerequisites for any required course of the minor.