

SCIENCE AND ENGINEERING PANEL

MINUTES

March 21, 2006
12:00 — 2:00 p.m.
TSC 203

I. Minutes of 2/14/06 SEP meeting – **APPROVED**, noting a correction to GEOL 385’s description: “...attend one seminar”.

II. Report on items deferred to Chair and Curriculum Office:

A. VITERBI SCHOOL OF ENGINEERING: COMPUTER SCIENCE

Req. by Gerard Medioni

Revise a minor program:

Eff. Fall 2006

Minor in Computer Science [32 unit program]

➤ **APPROVED.** The department agreed to remove the admission requirement.

B. LEONARD DAVIS SCHOOL OF GERONTOLOGY

Req. by Liz Zelinski

Revise a degree program:

Eff. Fall 2006

B.S., Gerontology [128 unit program]

Change name of degree to **B.S., Human Development and Aging**.

➤ **APPROVED.** GERO 416 and GERO 491 are now recommended for approval, and revised catalogue copy was provided.

Includes 2 revised courses:

1. NEW: GERO 416 HEALTH ISSUES IN ADULTHOOD (4, Sp)
OLD: GERO 416 HEALTH ISSUES IN AGING (4, Sp)

➤ **2/14/06 SEP MEETING: DEFERRED TO CURRICULUM OFFICE** for signature from Policy, Planning and Development.

➤ **APPROVED.** Signature received by CCO on 2/15/06.

2. NEW: GERO 491 PRACTICUM (2-8, max 8, FaSpSm)
OLD: GERO 491 GERONTOLOGY PRACTICUM (2-8, max 8, FaSpSm)

➤ **APPROVED.** More information was provided to Chris Gould by Liz Zelinski. The 2-8, max 8 is possible, because of the 12-week summer session. The minimum requirements for a grade of CR were provided. The School now agrees to allow 2-unit enrollments at any time. **The number of hours per unit was identified at 50**, instead of a number of hours per week, in order to make consistent the summer terms of various length with fall and spring.

C. LAS: EARTH SCIENCES

Req. by Thomas Henyey

1. Revise a course:

GEOL 412 OCEANS, CLIMATE, AND THE ENVIRONMENT (4, Sp)

NEW COREQUISITE: CHEM 105bL, MATH 126; recommended preparation: PHYS 151Lg
or PHYS 135abL

OLD PREREQUISITE: CHEM 105bL or CHEM 115bL, MATH 126; recommended preparation:
PHYS 151Lg, PHYS 152L or PHYS 135abL

- **2/14/06 SEP MEETING: DEFERRED TO CURRICULUM OFFICE** for a shorter course description (approximately 25 words).
- **APPROVED.** A shorter catalogue description was provided

2. Add a new minor:

Eff. Fall 2006

Geobiology Minor [16-24 unit program]

- **APPROVED.** Revised catalogue copy was provided by the department.

DEFERRED ITEMS:

III. VITERBI SCHOOL OF ENGINEERING: ELECTRICAL ENGINEERING

Req. by John Choma, Jr.

Revise a degree program:

Eff. Fall 2006

B.S., Electrical Engineering [131 unit program]

Replace Electromagnetics and Energy Conversion track with Electromagnetics and Solid State; add three “specialization” areas to the new track; revise the specific courses required for each new specialization. Drop the Communications and Networks specialization in the Communication, Control and Signal Processing track.

- **2/14/06 SEP MEETING: DEFERRED TO PANEL.** This proposal is incomplete in that appropriate Catalog copy (showing required courses organized by course and not rearranged into sample schedules) are missing for 8 of the degree tracks. It was noted that contrary to statements by the School of Engineering, this program revision to incorporate ENGR 102 does not reduce required units below the prior level.
- **FOR TODAY’S MEETING:** No response from department. **DEFERRED TO PANEL.** In a discussion with the department after the meeting, it was pointed out that they had not intended to include ENGR in this proposal – it was included in some sample schedules by mistake. They also prefer catalog copy that lists courses by semester rather than category.
- **AFTER TODAY’S MEETING:** Resubmission of proposal by the department which was sent to panel members as an email attachment for their consideration. **VOTE:** 6 faculty approve, 1 student approve, 1 abstention by a faculty member from the department.

WITHDRAWN revision to a crosslist:

Eff. Fall 2006

NEW: EE 437 INTRODUCTION TO CONDENSED MATTER PHYSICS (4, Irregular, Sp)
(Enroll in PHYS 440)

- **FOR TODAY'S MEETING:** EE 437 is dropped as a crosslist of MASC 437 and the crosslist of PHYS 440 will be **EE 436** (as per 10/05 UCCPC Administrative Actions).

NEW ITEMS

IV. VITERBI SCHOOL OF ENGINEERING: AEROSPACE AND MECHANICAL ENGINEERING Req. by Michael Kassner

Revise 2 degree programs:

Eff. Fall 2007

B.S., Mechanical Engineering and **B.S., Mechanical Engineering (Petroleum Engineering)** [128 unit programs]

Replace AME 442ab with AME 441ab as a requirement.

- **APPROVED**

Includes a dropped course:

AME 442abL EXPERIMENTAL ENGINEERING (3-3)

Experiments in: a) fluid flow, heat transfer, buckling, torsion, vibration; b) control of dynamic systems, feedback controller design and implementation using analog/digital computers. Technical reports: projects.

- **APPROVED**

V. VITERBI SCHOOL OF ENGINEERING: CIVIL ENGINEERING

Req. by L. Carter Wellford

Revise a course:

Eff. Fall 2007

NEW: CE 404 BUSINESS AND INTELLECTUAL PROPERTY LAW FOR ENGINEERS (3)

An examination of legal issues confronting the professional engineer. Topics include the legal system, contracts, risk management, forms of doing business, capital formation and intellectual property rights. Upper division standing.

OLD: CE 404 FUNDAMENTALS OF LAW FOR ENGINEERS (3)

Legal problems confronting the engineer in his professional environment and daily life. Survey of the legal system and how it operates.

NOTE: The department notes that this revised course is required in the minor in Engineering Technology Commercialization (which was approved in May 2005, so it is not in the '05-06 catalogue).

- **APPROVED**

Members present

Gary Adolphson (support staff)
Mihram Agbabian
Christopher M. Gould (chair)
Veronica Ann Greene
Douglas Hammond
Brian Lickel
Frank Potenza
Jennifer Smith (student)

Members absent

Gene Bickers (*ex-officio*)
Kelvin J.A. Davies
Elizabeth Garrett (*ex-officio*)
David Glasgow (*ex-officio*)
Edward Maby
Kenneth Servis (*ex-officio*)
Peter Starr (*ex-officio*)

Guests

Edwenna Werner (for Dean Servis)