SCIENCE AND ENGINEERING PANEL

MINUTES

November 29, 2005
12:00 — 2:00 p.m.
TSC 203

I. Minutes of 10/18/05 SEP meeting

- **APPROVED**

II. Report on items deferred to Chair and Curriculum Office

A. ENGR 305 ENGINEERING BIOLOGY MATTERS (3, FaSp)
Issue: upper division numbering for a course without prerequisites and taken by freshmen

- **Still in discussion**

B. PHED 160 STRESS MANAGEMENT FOR HEALTHY LIVING (2, FaSp)

- **APPROVED.** The revised course materials requested by the panel were provided.

DEFERRED ITEMS:

No deferred items

NEW ITEMS:

III. VITERBI SCHOOL OF ENGINEERING: ASTRONAUTICS AND SPACE TECHNOLOGY — Req. by Mike Gruntman

Add 4 new courses: — Eff. Spring 2006

A. ASTE 291 TEAM PROJECTS I (1, max 4, FaSp)
Participation in undergraduate student team projects. Intended for lower-division students or those with little prior project experience. Departmental approval.

- **DEFERRED TO CURRICULUM OFFICE.** The panel recommends that "departmental approval" be removed from the description and that the department should schedule the course as a "D" class. The panel recommends that the description indicate more clearly that students who enroll in the course "participate in the ASTE undergraduate team projects" (as noted in the syllabus); the specific wording is left to the department. The extent of faculty supervision was unclear in the syllabus.

B. ASTE 390 SPECIAL PROBLEMS (1-4)
Supervised, individual studies. No more than one registration permitted. Enrollment by petition only.

- **APPROVED.**

C. ASTE 490x DIRECTED RESEARCH (2-8, max 8, FaSpSm)
Individual research and readings. Not available for graduate credit.

➢ **APPROVED.**

D. ASTE 491 TEAM PROJECTS II (1, max 4, FaSp)
Participation in undergraduate student team projects. Intended for students with prior project experience. Departmental approval.

➢ **DEFERRED TO CURRICULUM OFFICE.** The panel recommends that "departmental approval" be removed from the description and that the department should schedule the course as a "D" class. The panel recommends that the description indicate more clearly that students who enroll in the course "participate in the ASTE undergraduate team projects" (as noted in the syllabus); the specific wording is left to the department. The extent of faculty supervision was unclear in the syllabus.

IV. VITERBI SCHOOL OF ENGINEERING: BIOMEDICAL ENGINEERING

Req. by Michael Khoo

Add a new course: Eff. Fall 2006

BME 408 FUNDAMENTALS OF CRANIOFACIAL BIOTECHNOLOGY (2, Sp)
Biomedical engineering and technology applied to oral health professions. Dental biomaterials, CAD-CAM, digital dental technology and tissue engineering applications to craniofacial diseases, disorders and enhancements. Recommended preparation: BME 404, BME 410.

➢ **DEFERRED TO PANEL.** The panel was concerned that there are no prerequisites for this course and suggests that the department make the proposed recommended preparation courses into prerequisites. Given that a prerequisite to the course would be 410, the panel requests the department consider choosing a number for the proposed course higher than 410, *i.e.* not 408 as currently proposed. Concern was also expressed regarding the grading strategy in that if implemented as proposed, students would reach the "W" deadline without any way to determine a likely course grade. The problem is that 75% of the final grade is based on Student Project Presentations, but the project proposals aren't submitted until the 11th week of the semester. Even the formation of teams (when required) for the projects appears likely not to occur before the "W" date.

V. VITERBI SCHOOL OF ENGINEERING: INDUSTRIAL AND SYSTEMS ENGINEERING

Req. by James E. Moore, II

Revise a course and add a crosslisting: Eff. Fall 2006

NEW: ISE 382 INTRODUCTION TO COMPUTER SYSTEMS (2, Sp)
Fundamental concepts of modern computer systems; design of industrial information systems including hardware selection, software design, human/machine interface, and data processing economics. Prerequisite: CSCI 101.

ALSO: ITP 383 INTRODUCTION TO COMPUTER SYSTEMS (2, Sp)
(Enroll in ISE 382.)

OLD: ISE 382 INTRODUCTION TO COMPUTER SYSTEMS (3, Sp)
[Description and prerequisite same as above]

➢ **DEFERRED TO PANEL CHAIR.** A revised title and description more in line with the syllabus is requested.

Members present	**Members absent**
Gary Adolphson (support staff)	Gene Bickers (ex-officio)
Mihram Agbabian	Kelvin J. A. Davies
Christopher M. Gould (chair)	Elizabeth Garrett (ex-officio)
Veronica Ann Greene	David Glasgow (ex-officio)
Douglas Hammond	Frank Potenza
Brian Lickel	Kenneth L. Servis (ex-officio)
Edward Maby	Peter Starr (ex-officio)
Jennifer Smith (student)	

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Christopher Gould, chair
Science and Engineering Panel

Date