

GRADUATE AND PROFESSIONAL STUDIES COMMITTEE

ADMINISTRATIVE ACTIONS

February 13, 2006

NEW ITEMS

I. PANEL A: HEALTH, NATURAL SCIENCES, AND COMMUNICATION

No proposals for administrative action

II. PANEL B: SOCIAL SCIENCES, HUMANITIES, INTERNATIONAL RELATIONS, AND LAW

No proposals for administrative action

III. PANEL C: PHYSICAL SCIENCES, ENGINEERING, FINE ARTS, AND CINEMA-TELEVISION

A. VITERBI SCHOOL OF ENGINEERING: AEROSPACE AND MECHANICAL ENGINEERING

Req. by Michael Kassner

Correct the preparation of a course:

Eff. Fall 2006

From the 12/12/05 GPSC Administrative Actions:

AME 535ab INTRODUCTION TO COMPUTATIONAL FLUID MECHANICS (3-3, FaSp)

NEW PREPARATION FOR "a": Recommended preparation: AME 525

OLD PREPARATION FOR "a" Prerequisite: AME 525

NEW PREPARATION FOR "b": Recommended preparation: AME 535a, AME 510a, AME 511

OLD PREPARATION FOR "b": Prerequisite: AME 535a, AME 510a, AME 511

➤ **CORRECT NEW PREPARATION FOR "b":**

AME 535a, AME 511 or AME 530a.

➤ **FOR TODAY'S MEETING: CORRECTED PREPARATION FOR "b":**

Prerequisite: AME 535a; recommended preparation: AME 511 or AME 530a.

➤ **APPROVED.**

IV. VITERBI SCHOOL OF ENGINEERING: ELECTRICAL ENGINEERING

Req. by Alexander Sawchuk

Revise a course's units:

Eff. Fall 2006

EE 690 DIRECTED RESEARCH

NEW UNIT VALUE: 1-4, maximum number to be determined by the department

OLD UNIT VALUE 1-4, max 8

➤ **APPROVED.**

V. VITERBI SCHOOL OF ENGINEERING: INDUSTRIAL AND SYSTEMS
ENGINEERING Req. by F. Stan Settles

Add 5 crosslistings: Eff. Fall 2006

- A. NEW: SAE 541 SYSTEMS ENGINEERING THEORY AND PRACTICE (3, FaSpSm)
Integration of engineering problem solving methodologies based on systems concepts. Application to complex, large scale technical systems and problems faced by engineering managers. Case studies. (Duplicates credit in former ISE 541.)

ALSO: ISE 541 SYSTEMS ENGINEERING THEORY AND PRACTICE (3, FaSpSm)
(Enroll in SAE 541.)

OLD: ISE 541 SYSTEMS ENGINEERING THEORY AND PRACTICE (3, FaSpSm)
[Description same as above.]

- **12/12/05 GPSC MEETING: DEFERRED TO ADMINISTRATIVE ACTIONS**, as per clarification from the registrar that there is no cross-listing between courses with different prefixes when one department offers the courses with both prefixes. ISE and SAE are in the same department.

➤ **DENIED.**

- B. NEW: SAE 542 ADVANCED TOPICS IN SYSTEMS ENGINEERING (3)
Advanced topics in integration software management and systems engineering, probabilistic foundations of decision theory, quantitative risk management, decision-based design, and safety aspects of systems engineering. (Duplicates credit in former ISE 542.) Prerequisite: SAE 541.

ALSO: ISE 542 ADVANCED TOPICS IN SYSTEMS ENGINEERING (3)
(Enroll in SAE 542.)

OLD: ISE 542 ADVANCED TOPICS IN SYSTEMS ENGINEERING (3)
[Description same as above.] Prerequisite: ISE 541.

- **12/12/05 GPSC MEETING: DEFERRED TO ADMINISTRATIVE ACTIONS**, as per clarification from the registrar that there is no cross-listing between courses with different prefixes when one department offers the courses with both prefixes. ISE and SAE are in the same department.

➤ **DENIED.**

- C. SAE 543 CASE STUDIES IN SYSTEMS ENGINEERING (3, FaSp)
Real-world case studies in DoD, NASA, and commercial arenas, employing new methodologies to cover the fundamental positive and negative development learning principles of systems engineering. Prerequisite: SAE 541, SAE 549.

ALSO: ISE 543 CASE STUDIES IN SYSTEMS ENGINEERING (3, FaSp)
(Enroll in SAE 543.)

- **12/12/05 GPSC MEETING: DEFERRED TO PANEL CHAIR**, requesting additional clarification and detail for the syllabus to include more description of the presentations, reports and actual topics to be discussed. This is a new elective course that will be done completely by distance learning (DEN). The syllabus is quite brief and the actual content in the course discussed in limited detail. It is not clear how this course can be done with all the student presentations by distance learning unless it is a synchronous method that may not be applicable to all enrolled distance learning students. The case studies (Major, Minor) are described in only limited detail.
The request to cross-list ISE 551 is deferred to administrative actions.

➤ **DENIED.**

D. NEW: SAE 550 ENGINEERING MANAGEMENT OF GOVERNMENT-FUNDED PROGRAMS (3, Sp)

Analysis of risks inherent in managing high-tech/high-cost government-funded engineering programs; tools and techniques for coping with the impacts of politically-driven budgets on the engineering design process. Recommended preparation: 2 years of work experience. (Duplicates credit in former ISE 550.)

ALSO: ISE 550 ENGINEERING MANAGEMENT OF GOVERNMENT-FUNDED PROGRAMS (3, Sp)
(Enroll in SAE 550.)

OLD: ISE 550 ENGINEERING MANAGEMENT OF GOVERNMENT-FUNDED PROGRAMS (3, Sp)

[Description and recommended preparation same as above.]

- **12/12/05 GPSC MEETING: DEFERRED TO ADMINISTRATIVE ACTIONS**, as per clarification from the registrar that there is no cross-listing between courses with different prefixes when one department offers the courses with both prefixes. ISE and SAE are in the same department.

- **DENIED.**

E SAE 551 LEAN OPERATIONS (3, Sp)

Study of lean principles and practices as applied to automotive, aerospace and other industries.

ALSO: ISE 551 LEAN OPERATIONS (3, Sp)
(Enroll in SAE 551.)

- **12/12/06 GPSC MEETING: APPROVED the request to add SAE 551, with a recommendation** to the department that the syllabus become more “Robust” through additional details on the project and specific readings. This is an elective course that will be added to the course offerings for the M.S. degree. The syllabus is rather “Lean” especially with respect to the expectations for the final project and the actual readings for the course. **The request to cross-list ISE 551 is deferred to administrative actions.**

- **DENIED.**