

MINUTES OF THE GRADUATE CURRICULUM COMMITTEE
January 20, 2005

PRESENT: Allen (ChE), Caulfield (CHEM Grad Rep), DeWeerth (BME/ECE), Green , (MATH), Jayaraman (MGT-for Parsons), McIver (REG), Parker (ISYE), Peponis (COA), Smith (AE), Venkateswaran (COC)

VISITORS: Allen (COA), Carson (REG), Chernoff (BIOL), Daniell (APPH), Hartley (EAS), Hovorka (APPH), Hughes (ECE), Jarrett (ARCH), Kilroy (Grad Studies), Orloff (ME), Owen (ECE), Uhlik (ARCH/BC), Wepfer (DLPE)

1. A motion was made to approve the minutes of the December 2, 2004 meeting. The motion was seconded and approved. Unanimous.
2. A motion was made to approve the sub-committee's petitions' report of January 15, 2005. The motion was seconded and approved.
3. The SCHOOL OF APPLIED PHYSIOLOGY requested the following new courses, the deactivation of one course, change in title of one course and curriculum changes in the MS in Prosthetics and Orthotics. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

NEW COURSES

APPH 6897 Lower Limb Orthotics I (1-2-1)
 APPH 6898 Lower Limb Orthotics II (1-2-1)
 APPH 8011 Research Seminar (3-0-3)

MAKE INACTIVE:

APPH 6993

Change the title of APPH 6991 from Upper Extremity Prosthetics to Upper Limb Prosthetics and APPH 6994 from Upper Extremity Orthotics to Upper Limb Orthotics

Curriculum changes:

Eliminate biomedical imaging course requirement.

Eliminate differential equations as a prerequisite for admission to the MSPO program.

Change calculus prerequisite to two semesters of calculus.

Eliminate all elective hours (9 credit hours). These hours will be reflected in the practicum hours of the MSPO program (see attached documentation).

Students must complete all required courses with a grade of C or better.

4. The SCHOOL OF PHYSICS requested the following new course. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

NEW COURSE

PHYS 6268 Non linear Dynamics (3-0-3)

5. The DEPARTMENT OF BIOMEDICAL ENGINEERING and the SCHOOL OF MECHANICAL ENGINEERING requested the following new courses and the deactivation of two courses. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

NEW COURSES

BMED/ME 6743 Tissue Mechanics (3-0-3)

MAKE INACTIVE:

BMED/ME 6783

6. The SCHOOL OF INDUSTRIAL AND SYSTEMS ENGINEERING requested the following new course. A motion was made to approve the request. The motion was seconded and approved. Unanimous

NEW COURSE

ISYE 7406 Data Mining and Statistical Learning (3-0-3)

7. The COLLEGE OF ARCHITECTURE requested the following new courses and the deactivation of several courses. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

NEW COURSES

ARCH 6113 History of Renaissance and Mannerist Architecture (3-0-3)

ARCH 6114 Architecture and Discourse of the Everyday (3-0-3)

ARCH 6226 Green Construction (3-0-3)

ARCH 6313 Traditions of Architectural Practice (3-0-3)

MAKE INACTIVE:

ARCH 6116, ARCH 6130, ARCH 6208, ARCH 6219, ARCH 6425

8. The DEPARTMENT OF BUILDING CONSTRUCTION requested the following new courses. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

NEW COURSES

BC 6700 Advanced Facility Management Practice (3-0-3)

BC 6800 Facility and Property Management Capstone (3-0-3)

9. The DEPARTMENT OF BUILDING CONSTRUCTION requested the approval to offer the MS BC degree through distance learning. A motion was made to approve the request. The motion was seconded and approved. Unanimous.
10. The DEPARTMENT OF BIOMEDICAL ENGINEERING requested the approval of the following new courses and the reduction of the number of required hours for the PHD in BMED from 53 hours to 45 hours. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

NEW COURSES

- BMED 6011 Engineering Science I (4-0-4)
- BMED 6012 Engineering Science II (4-0-4)
- BMED 6021 BME Problem Solving I (0-6-2)
- BMED 6022 BME Problem Solving II (0-6-2)
- BMED 6031 Principles of Basic Biomedical and Biological Science I (6-0-6)
- BMED 6032 Principles of Basic Biomedical and Biological Science II (6-0-6)
- BMED 6041 Analytical Methods for BME (3-0-3)
- BMED 6042 Systems Physiology (3-0-3)

11. The SCHOOL OF EARTH AND ATMOSPHERIC SCIENCE requested the following new courses. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

NEW COURSES

- EAS 6140 Thermodynamics of Atmospheres and Oceans (3-0-3)
- EAS 6405 Intro to Atmospheric and Aqueous Chemistry (3-0-3)
- EAS 6522 Dynamics of the Tropical Atmosphere and Oceans (3-0-3)
- EAS 6145 Remote Sensing of the Atmosphere and Oceans (3-0-3)
- EAS 6135 Intro to Complex Environmental Systems (3-0-3)
- EAS 6430 Experimental Methods in Air Quality (2-3-3)
- EAS 6532 Large-scale Atmospheric Circulations (3-0-3)
- EAS 6136 Paleoclimatology and Paleoceanography (3-0-3)

12. The SCHOOL OF EARTH AND ATMOSPHERIC SCIENCES requested the approval of a BS/MS option. After much discussion, a motion was made to approve the request with changes in the wording to reflect that the student could apply for the program after completing 30 hours and the GPA requirement was the cumulative GPA. The motion was seconded and approved. 5 yes, 0 no, 2 abstained.

13. The COLLEGE OF MANAGEMENT requested the following new course. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

NEW COURSE

- MGT 6067 Financial Aspects of Commercial Real Estate I (3-0-3)

14. The SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING requested the following new courses, a deactivation of two courses, a pre requisite change for one course and modification of the degree requirements for the PHD in ECE.

After much discussion, a motion was made to table the request for ECE 6560 pending interaction between ECE and Math concerning the cross listing of the course.

The motion was seconded and approved unanimously. A motion was made to approve the remaining items on the request. The motion was seconded and approved. Unanimous.

NEW COURSES

- ECE 6102 Dependable Distributed Systems (3-0-3)
- ECE 6133 Physical Design of Automation of VLSI Systems (3-0-3)
- ECE 6611 Broadband Networking (3-0-3)
- ECE 6612 Computer Network Security (3-0-3)
- ECE 8022 Professional Communication Seminar (1-0-1)

TABLED COURSE

ECE 6560 Partial Differential Equations in Image Processing and Computer Vision (3-0-3)

MAKE INACTIVE

ECE 6793 (other cross listed versions of this course not affected by this action)

ECE 6609

CHANGE PREREQUISITE :

ECE 7142 - Delete prerequisite of ECE 6140 and add prerequisite ECE 6100

DEGREE MODIFICATION for PHD in ECE (no net change in credit hours required)

Delete ECE 8020 - 3 hours

Add ECE 8022 – 1 hour

Increase elective hours from 12 -14 hours

Blanket substitution of ECE 8022 + 2 credit hours electives for ECE 8020

15. The COLLEGE OF COMPUTING and the SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING requested a new multidisciplinary certificate in Information Assurance. A motion was made to approve the request. The motion was seconded and approved. Unanimous.
16. The SCHOOL OF BIOLOGY requested the following new courses and changes in the degree requirements for the PHD and MS degrees and deactivation of two courses. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

NEW COURSES

BIOL 7001 Foundations in Molecular and Cell Biology (4-0-4)

BIOL 8000 Integrative Biology Seminar (2-0-2)

BIOL 8006 Integrative Approaches to Biological Systems (2-0-2)

MAKE INACTIVE:

BIOL 8002

BIOL 8003

CURRICULUM CHANGES

- i. Change in 1st year course requirement: Replace the current weekly seminar course Biology 8002/8003 with a one-semester, 2 credit course that will give students a more participatory and integrative experience (Biology 8000). The proposed change will have no impact on the overall credit requirements of our program.
- ii. Substitute Biology 8106 (Tools of Science) for Biology 8101 (Introduction to Research) as a required course for first year students. The two courses have been taught together for the last two years, so this is simply a change in name, not content, of the course required of our first year students.
- iii. Change in MS course requirement: MS students will no longer be required to take Biology 8101 (current requirement) or Biology 8106 (see #2). This course is designed for PhD students and significant parts of the course are of limited interest to MS students.

17. The SCHOOLS OF MECHANICAL ENGINEERING AND CHEMICAL AND BIOMOLECULAR ENGINEERING requested the following new courses. A motion was made to approve the request. The motion was seconded and approved. Unanimous.

NEW COURSES

ME/CHBE 6741 Pulp and Paper Manufacture I (3-0-3)

ME/CHBE 6742 Pulp and Paper Manufacture II (3-0-3)

18. The committee reviewed eight petitions, all were approved except noted:

2-to count hours/course credit towards degree

3-to increase scheduled hours

1-to waive residency requirements

1-to withdraw from course past deadline

1-to return spring 2005 after withdrawing fall 2004

Adjourned,

M. Jo McIver
Registrar

MJM: am
Addendum Attached

**Addendum to the Graduate Curriculum Committee Meeting Minutes
January 20, 2005**

1. Action was taken on the following minutes:

Brown, Lola (BMED) 901-57-1457
to use 6 hours of 9000 level courses for Masters. **Approved.**

Daniel, Robert (PSYC) 902-08-2408
to change grade in PSYC 7101 to "W". **Approved.**

De Los Reyes, Marie (MGT) 901-80-8002
to increase scheduled hours to 22, spring 2005. **Approved.**

Graff, Mason (ECE) 901-66-7282
to waive residency requirement. **Approved.**

Harley, Linda (CE) 901-29-4228
to return spring 2005 after withdrawing fall 2004. **Approved.**

Liu-Horwitz, Ling (MGT) 901-80-3434
to increase scheduled hours to 22, spring 2005. **Approved.**

Perry, Philip (MGT) 901-20-3127
to increase scheduled hours to 22, spring 2005. **Approved.**

Pouget, Alexandre (MGT) 901-67-4417
to count course credit taken as special student towards degree. **Approved.**