



MME CURRICULUM COMMITTEE
Florida International University
Department of Mechanical & Materials Engineering
Miami, Florida

MINUTES

December 8, 2004

The MME Curriculum Committee met in the Construction Management conference room, EC 2290. The meeting started at 10:00 am. The following student committee, and curriculum committee members were present: Richard Castillo (ASME Rep), Jose Iragorry (ASHRAE Rep), Paul Grata (ASME Rep), Carmen Schenck, Dr. Yong Tao, Dr. Sukky Jun and Dr. Sabri Tosunoglu.

The meeting addressed the proposed changes in the undergraduate program and its reflections on the catalog. The changes addressed the following items: New course lineup, changes in prerequisites and corequisites, revision of four MME minors for non-ME students, an update of the courses in minors in light of the new courses, and a minor change in the departmental program objectives as approved earlier by the student committee, industrial committee and the MME curriculum committee.

The undergraduate program change proposal will be made available separately as attachment to this document.

Other items discussed and the corresponding task assignments are as follows:

EGM 3503 Applied Mechanics

Prepare a course change request to update prerequisites. This was requested by BME and we have agreed to do it. The new prerequisites will read as follows:

Prerequisites: MAT 2312 and PHY 2048.

DR. JUN: Prepare the course change request form.

DR. RINCON: Prepare the course summary form.

EML 3101 Thermodynamics II (change)

This course will not be a required course, but instead be replaced by an elective course within the ME degree. Thermo II will be offered as an elective, which will allow an opportunity for students to include technical electives in other areas to

complement their choice of concentration. It will also give the opportunity to include a computation-based course if it is so desired by the student.

EML 3XXX Simulation Software for Mechanical Engineers

DR. RINCON: Prepare a new course proposal. Changing EML 2030 is not practical since there will be more changes than allowed.

Corequisites: EMA 3702, EGN 3343, and EML 3126. (This list has been decided by the MME Curriculum Committee and it is final.)

Course contents still need to be refined and finalized consistent with previous discussions and a view of other new and existing courses:

Pro/E and SolidWorks 3D CAD, grid generation, stress analysis, thermal analysis
SolidWorks and Ansys for stress analysis
SolidWorks, StarCD and Fluent for fluid flow analysis
IOSO for multi-disciplinary optimization
Elements of parallel programming

CGS 2420 and CGS 2423 as prerequisite or corequisite

This is part of the prerequisite update effort DR. JUN has been working on.

CGS 2420 (FORTRAN Programming) does not exist anymore; hence, it should be deleted from the prerequisite or corequisite lists of all courses.

CGS 2423 (C for Engineers) should be replaced with EML 2XXX Programming for technical Engineers.

Reminder on Course Change Proposals

It is noted that each course change request must include a course summary form (attached) as required by the State of Florida. Dr. Jun will ask the faculty who most recently taught a given course to prepare the related summary form. This will distribute the burden among faculty. He is working on a number of course changes and we will greatly appreciate your cooperation.

Revisions and corrections made in this meeting are to be incorporated by Dr. Tao, consulted with faculty and Department Chair and will be concluded and, if necessary, finalized at the next curriculum committee meeting to be held next week.

Meeting adjourned at 12:15 pm.

Prepared by Dr. Sabri Tosunoglu and Richard A. Castillo.