

Proposed Course Change for APC

Department of Materials Science and Engineering

Kind of change, e.g., "change in title"

Crosslist existing course

Current course number and course description (from course catalog):

MAT 309. Composite Materials (3)

The principles and technology of composite materials. Processing, properties, and structural applications of composites, with emphasis on fiber-reinforced polymers. Lectures and some field trips or laboratories.

Prerequisite: MAT 33 or equivalent MECH 3. Pearson

Proposed course number and course description (as it will appear in course catalog):

MAT 309 (ME 309). Composite Materials (3)

The principles and technology of composite materials. Processing, properties, and structural applications of composites, with emphasis on fiber-reinforced polymers. Lectures and some field trips or laboratories.

Prerequisite: MAT 33 or equivalent MECH 3. Pearson

Description of proposed change(s):

Crosslisting

Rationale for proposed change(s):

To mirror proposal from ME.

Impact Statement:

No impact.

Proposed Course Change to the APC of RCEAS

Materials Science and Engineering Department

1. Kind of change, e.g., "new course" or "change in title" or "change in description"

New course

2. Current course number and course description (from course catalog):

None

3. Proposed course number and course description (as it will appear in course catalog):

MAT 332. Basics of Materials Science and Engineering (3) fall

Physical and chemical principles applied to understanding the structure, properties, selection, fabrication, and use of engineering materials: metals, polymers, ceramics, composites and electronic materials. Case studies of materials used range from transportation systems to microelectronic devices. Lectures and individual study assigned by graduate advisor. Prerequisites: Graduate student status and permission of department chair. Not available to students who have taken MAT 33 or equivalent.

4. Rationale for proposed change(s):

Materials Science and Engineering is an evolving field. It is now not uncommon for the Department to accept graduate students who do not have a conventional background in materials. The Department is concerned that this might lead to a situation where graduating PhDs do not have a command of the basics of the field. For such students, the Department wishes to create this course, which would bring students up to par with a broad background covering the essentials of the subject.

5. Impact Statement (describe possible effects on students, faculty, computer center, library resources):

There should be little impact on faculty loads since the lecture course part is actually MAT 33, a course that is taught on a regular basis in the fall semester. The additional in-depth individual study projects will be performed in consultation with student's faculty advisor.

6. Will this course be cross-listed? Under what number? Who was consulted?

No