Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments
• AEROSPACE ENGINEERING - Mechanics and Materials

1. This request is submitted by the Department of _______________

2. Course prefix, number and complete title of course: MEMA 612 - Wave Propagation in _______________
   Isotropic and Anisotropic Solids

Attach a brief supporting statement for changes made to items 3a thru 3d, and 5 below.

3. Change requested
   a) Prerequisite(s): From ____________________________ To ____________________________
   b) Withdrawal (reason)
   c) Cross-list with ____________________________
   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.
   e) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.

4. Complete current course title and current course description: Wave Propagation in Isotropic and Anisotropic Solids. Mathematical and experimental methods of studying stress waves with emphasis on anisotropic solids, e.g., fiber-reinforced composite materials; waves in an unbounded medium, in a half-space, in rods; waves in a general anisotropic medium; wave surface, slowness surface, velocity surface, energy velocity and group velocity.

5. Complete proposed course title and proposed course description (not to exceed 50 words): SAME

6. a) As currently in course inventory:

   Prefix | Course # | Title (excluding punctuation)  
   ------ | -------- | -----------------------------
   MEMA   | 612      | WAVE PROPAGATION              

   Lect. | Lab | SCH | Subject Matter Content Code | Admin. Unit | FICE Code |
   ----- |---- |---- |--------------------------- |------------ |---------- |
   3000  | 30 | 1402010006 | 010000003632 |             | Level 6   |

b) Change to:

   Prefix | Course # | Title (excluding punctuation)  
   ------ | -------- | -----------------------------
   AERO   | 612      | WAVE PROPAGATION              

   Lect. | Lab | SCH | Subject Matter Content Code | Admin. Unit | Acad. Year | FICE Code |
   ----- |---- |---- |--------------------------- |------------ |----------- |---------- |
   3000  | 30 | 1402010006 | 010000003632 | 08-09      |           | Level 6   |

Approval recommended by:

Head of Department ____________________________ Date 10/1/07

N.K. Ahmad ____________________________ Date 10/1/07

Head of Department (if cross-listed course) ____________________________ Date 10/1/07

Chair, College Review Committee ____________________________ Date 10/1/07

Dean of College ____________________________ Date 10/1/07

Submitted to Coordinating Board by:

Dean of College ____________________________ Date 10/1/07

Director of Academic Support Services ____________________________ Date 10/1/07

Questions regarding this form should be directed to Sandra Williams at 845-8836.
OAR/AS – 04/07

1 of 3 B41
MEMA 612 / AERO 612 - WAVE PROPAGATION IN ISOTROPIC AND ANISOTROPIC SOLIDS

Instructor: Vikram K. Kinra, 739 HRBB, 845-1667, kinra@tamu.edu.
Semester/Time/Location: TBA

Course Description: Mathematical and experimental methods of studying stress waves with emphasis on anisotropic solids, e.g., fiber-reinforced composite materials; waves in an unbounded medium, in a half-space, in rods; waves in a general anisotropic medium; wave surface, slowness surface, velocity surface, energy velocity and group velocity. Materials with periodic structures: Brillouin zones, cut-off frequency and dispersion.

Textbooks:
5. Additional references and journals as appropriate.

Prerequisite: AERO 603 or MEMA 601

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<td>A. Method of characteristics</td>
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Course Evaluation:
- Weekly abstracts of current journal publications: 10%
- Mid-term Examination: 20%
- Final Examination: 25%
- Homework: 20%
- Term Paper, including presentation to the class: 25%
- Total: 100%

Americans with Disabilities Act
The Americans with Disabilities Act (ADA) is a federal antidiscrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities in Room B118 Cain Hall, or call 845-1637.

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