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UC 1070609F

CBM003 ADD/CHANGE FORM

☒ Undergraduate Council	or	Graduate/Professional Studies Council
☐ New Course ☒ Course Change		☐ New Course ☐ Course Change
Core Category: NONE Effective Fall 2010		Effective Fall __

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MB

1. Department: MECE College: ENGR
2. Faculty Contact Person: Ralph Metcalfe Telephone: 3-4521 Email: metcalfe@uh.edu
3. Course Information on New/Revised course:
   - Instructional Area / Course Number / Long Course Title:
     MECE / 5312 / Computational Fluid Dynamics I
   - Instructional Area / Course Number / Short Course Title (30 characters max.)
     MECE / 5312 / COMPUTATIONAL FLUID DYNAMICS I
   - SCH: 3.00 Level: SR CIP Code: 141001006 Lect Hrs: 3 Lab Hrs: 0
4. Justification for adding/changing course: **To more accurately reflect course content/level**
5. Was the proposed/revised course previously offered as a special topics course? ☐ Yes ☒ No
   If Yes, please complete:
   - Instructional Area / Course Number / Long Course Title:
     ____ / ____ / _____
   - Course ID: _____ Effective Date (currently active row): _____
6. Authorized Degree Program(s): BS Mechanical Engineering
   - Does this course affect major/minor requirements in the College/Department? ☐ Yes ☒ No
   - Does this course affect major/minor requirements in other Colleges/Departments? ☐ Yes ☒ No
   - Can the course be repeated for credit? ☐ Yes ☒ No (if yes, include in course description)
7. Grade Option: Letter (A, B, C …) Instruction Type: lecture ONLY (Note: Lect/Lab info. must match item 3, above.)
8. If this form involves a change to an existing course, please obtain the following information from the course inventory: Instructional Area / Course Number / Long Course Title
   MECE / 5312 / Computational Fluid Dynamics I
   - Course ID: 31842 Effective Date (currently active row): 20073
9. Proposed Catalog Description: (If there are no prerequisites, type in "none".)
   Cr: 3. (3-0). Prerequisites: MECE 3363, 3371, MATH 3363 or equivalents or permission of instructor. Credit may not be received for more than one of BIOE 4312 and MECE 5312. Description (30 words max.): ~~Introduction to~~ finite-difference and finite-volume methods for solving fluid flow model PDEs. Concepts of consistency, stability, and convergence; solution of large-scale linear equation systems.
10. Dean's Signature: [redacted] Date: [redacted] Oct 2009

    Print/Type Name: David P. Shattuck