

UC 1072809F

APPROVED FEB 24 2010

CBM003 ADD/CHANGE FORM

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Undergraduate Council
 New Course Course Change
 Core Category: _____ Effective Fall 2010

or

Graduate/Professional Studies Council
 New Course Course Change
 Effective Fall _____

1. Department: BIOE College: ENGR **RECEIVED OCT 16 2009**
 2. Faculty Contact Person: Ralph Metcalfe Telephone: X34521 Email: metcalfe@uh.edu
 3. Course Information on New/Revised course:
 • Instructional Area / Course Number / Long Course Title:
BIOE / 5312 / Computational Fluid Dynamics I
 • Instructional Area / Course Number / Short Course Title (30 characters max.)
BIOE / 5312 / COMPUTATIONAL FLUID DYNAMICS I
 • SCH: 3.00 Level: SR CIP Code: 14.1901.00.06 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): B.S. Biomedical 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
BIOE / 4312 / Computational Fluid Dynamics I
 • Course ID: 13275 Effective Date (currently active row): 20073
 9. Proposed Catalog Description: (If there are no prerequisites, type in "none".)
 Cr: 3. (3-0). Prerequisites: BIOE 3440 and permission of instructor. 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: _____ Date: _____
 Print/Type Name: David P. Shattuck

Credit may not be received for more than one of BIOE 4312 and MECE 5312.