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Engineering Faculty Document No. 35-13

January 17, 2013

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**TO:** The Faculty of the College of Engineering

**FROM:** The School of Aeronautics and Astronautics

**RE:** Change to Existing Course AAE 33300 Fluid Mechanics prerequisites

The faculty of the School of Aeronautics and Astronautics has approved the following changes to AAE 33300. This action is now submitted to the Engineering Faculty with a recommendation for approval.

**From:** AAE 33300 Fluid Mechanics  
 Sem. Fall, Spring; Cr 3; Lecture 3  
 Pre-requisites: MA 30300 Minimum Grade of D- (may be taken concurrently) or MA 30400 Minimum Grade of D- (may be taken concurrently)

**To:** AAE 33300 Fluid Mechanics  
 Sem. Fall, Spring; Cr 3; Lecture 3  
 Pre-requisites: MA 30300 Minimum Grade of D- (may be taken concurrently) or MA 30400 Minimum Grade of D- (may be taken concurrently) and AAE 20300 Minimum Grade of D- and AAE 25100 Minimum Grade of D- (may be taken concurrently), AAE 20000 Minimum Grade of S

**Reason:** The new pre-requisites more accurately reflect the expectations coming into the course.

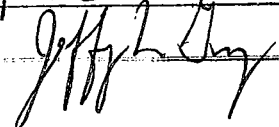


Tom I-P. Shin, Professor and Head  
 School of Aeronautics and Astronautics

APPROVED FOR THE FACULTY  
 OF THE SCHOOLS OF ENGINEERING  
 BY THE ENGINEERING  
 CURRICULUM COMMITTEE

ECC Minutes \*12

Date 9/19/2013

Chairman ECC 

**PURDUE UNIVERSITY**  
REQUEST FOR ADDITION, EXPIRATION,  
OR REVISION OF AN UNDERGRADUATE COURSE  
(10000-40000 LEVEL)

Print Form

DEPARTMENT School of Aeronautics and Astronautics

EFFECTIVE SESSION Spring 2014

(201420)

INSTRUCTIONS: Please check the items below which describe the purpose of this request.

- |   |   |
|---|---|
| <input type="checkbox"/> 1. New course with supporting documents          | <input type="checkbox"/> 7. Change in course attributes (department head signature only)  |
| <input type="checkbox"/> 2. Add existing course offered at another campus | <input type="checkbox"/> 8. Change in instructional hours                                 |
| <input type="checkbox"/> 3. Expiration of a course                        | <input type="checkbox"/> 9. Change in course description                                  |
| <input type="checkbox"/> 4. Change in course number                       | <input checked="" type="checkbox"/> 10. Change in course requisites                       |
| <input type="checkbox"/> 5. Change in course title                        | <input type="checkbox"/> 11. Change in semesters offered (department head signature only) |
| <input type="checkbox"/> 6. Change in course credit/type                  | <input type="checkbox"/> 12. Transfer from one department to another                      |

<b>PROPOSED:</b> Subject Abbreviation AAE Course Number 33300 Long Title Fluid Mechanics Short Title	<b>EXISTING:</b> Subject Abbreviation Course Number	<b>TERMS OFFERED</b> Check All That Apply: <input type="checkbox"/> Summer <input checked="" type="checkbox"/> Fall <input checked="" type="checkbox"/> Spring
Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)		<b>CAMPUS(ES) INVOLVED</b> <input type="checkbox"/> Calumet <input type="checkbox"/> N. Central <input type="checkbox"/> Cont Ed <input type="checkbox"/> Tech Statewide <input type="checkbox"/> Ft. Wayne <input checked="" type="checkbox"/> W. Lafayette <input type="checkbox"/> Indianapolis

<b>CREDIT TYPE</b> 1. Fixed Credit: Cr. Hrs. _____ 2. Variable Credit Range: Minimum Cr. Hrs. _____ (Check One) To _____ Or _____ Maximum Cr. Hrs. _____ 3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>	<b>COURSE ATTRIBUTES: Check All That Apply</b> 1. Pass/Not Pass Only <input type="checkbox"/> 2. Satisfactory/Unsatisfactory Only <input type="checkbox"/> 3. Repeatable <input type="checkbox"/> Maximum Repeatable Credit: _____ 4. Credit by Examination <input type="checkbox"/> 5. Special Fees <input type="checkbox"/> 6. Registration Approval Type Department <input type="checkbox"/> Instructor <input type="checkbox"/> 7. Variable Title <input type="checkbox"/> 8. Honors <input type="checkbox"/> 9. Full Time Privilege <input type="checkbox"/> 10. Off Campus Experience <input type="checkbox"/>
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Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture	50	3	16	100
Recitation				
Presentation				
Laboratory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

Cross-Listed Courses  
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**COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):**  
Pre-requisites: MA 30300 Minimum Grade of D- (may be taken concurrently) or MA 30400 Minimum Grade of D- (may be taken concurrently) and AAE 20300 Minimum Grade of D- and AAE 25100 Minimum Grade of D- (may be taken concurrently), AAE 20000 Minimum Grade of S  
Kinematics of fluids and conservation equations for mass, momentum, and energy. Viscous and inviscid incompressible flow. Lift and drag in subsonic flow. Introduction to compressibility and boundary layers. Potential flow.

**\*COURSE LEARNING OUTCOMES:**

Calumet Department Head _____ Date _____	Calumet School Dean _____ Date _____
Fort Wayne Department Head _____ Date _____	Fort Wayne School Dean _____ Date _____
Indianapolis Department Head _____ Date _____	Indianapolis School Dean _____ Date _____
North Central Department Head _____ Date _____	North Central Chancellor _____ Date _____
West Lafayette Department Head _____ Date _____	West Lafayette College/School Dean _____ Date _____
	West Lafayette Registrar _____ Date _____

35-13  
18 5/31/13