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OFFICE OF THE REGISTRAR

Engineering Faculty Document No. 7-13

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 25100 Introduction to Aerospace Design prerequisites

The faculty of the School of Aeronautics and Astronautics has approved the following changes to AAE 25100. This action is now submitted to the Engineering Faculty with a recommendation for approval.

**From:** AAE 25100 Introduction to Aerospace Design  
Sem. Fall, Spring; Cr 3; Lecture 3  
Pre-requisites: ENGR 13200 Minimum Grade of D-

**To:** AAE 25100 Introduction to Aerospace Design  
Sem. Fall, Spring; Cr 3; Lecture 3  
Pre-requisites: ENGR 13200 Minimum Grade of D- and CGT 16300 Minimum Grade of D-, AAE 20000 (may be taken concurrently)

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



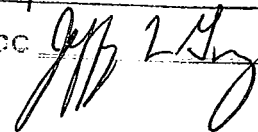
Tom I-P. Shih, Professor and Head  
School of Aeronautics and Astronautics

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

ECC Minutes #12

Date 4/19/2013

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                      |

**PROPOSED:**

**EXISTING:**

Subject Abbreviation AAE

Subject Abbreviation

Course Number 25100

Course Number

Long Title Introduction to Aerospace Design

Short Title

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

**TERMS OFFERED**

Check All That Apply:

Summer  Fall  Spring

**CAMPUS(ES) INVOLVED**

Calumet  N. Central  
 Cont Ed  Tech Statewide  
 Ft. Wayne  W. Lafayette  
 Indianapolis

**CREDIT TYPE**

1. Fixed Credit: Cr. Hrs.
2. Variable Credit Range:  
 Minimum Cr. Hrs   
 (Check One) To  Or   
 Maximum Cr. Hrs.
3. Equivalent Credit: Yes  No

**COURSE ATTRIBUTES: Check All That Apply**

- |  |   |
|--|---|
| <input type="checkbox"/> 1. Pass/Not Pass Only               | <input type="checkbox"/> 6. Registration Approval Type                  |
| <input type="checkbox"/> 2. Satisfactory/Unsatisfactory Only | Department <input type="checkbox"/> Instructor <input type="checkbox"/> |
| <input type="checkbox"/> 3. Repeatable                       | 7. Variable Title <input type="checkbox"/>                              |
| <input type="checkbox"/> 4. Credit by Examination            | 8. Honors <input type="checkbox"/>                                      |
| <input type="checkbox"/> 5. Special Fees                     | 9. Full Time Privilege <input type="checkbox"/>                         |
|  | 10. Off Campus Experience <input type="checkbox"/>                      |

ScheduleType	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  
**RECEIVED**  
**APR 23 2013**  
 OFFICE OF THE REGISTRAR

**COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):**

Pre-requisites: ENGR 13200 Minimum Grade of D- and CGT 16300 Minimum Grade of D-, AAE 20000 (may be taken concurrently)  
 The role of design in aerospace engineering. Introduction to aerodynamics, performance, propulsion, structures, stability and control, and weights. Layout and general arrangement of aerospace vehicles. Design concept generation and selection. Computational methods for design. Trade studies and graphical optimization. Conceptual design exercise involving aircraft, spacecraft, or both. Technical presentations and communication for aerospace engineering.

**\*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

*[Handwritten Signature]* 6/3/13  
 West Lafayette Registrar

7-13  
 (10) 5/31/13