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OFFICE OF THE REGISTRAR

Engineering Faculty Document No. 36-13

January 17, 2013

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TO: The Faculty of the College of Engineering

FROM: The School of Aeronautics and Astronautics


RE: Changes to Existing Course AAE 35200 Structural Analysis I prerequisites

The faculty of the School of Aeronautics and Astronautics has approved the following changes to AAE 35200. This action is now submitted to the Engineering Faculty with a recommendation for approval.

From: AAE 35200 Structural Analysis I
Sem. Fall, Spring; Cr 3; Lecture 3
Pre-requisites: AAE 20400 Minimum Grade of D- or CE 27300 Minimum Grade of D- or NUCL 27300 Minimum Grade D- or ME 32300 Minimum Grade D- and AAE 20401 Minimum Grade D-

To: AAE 35200 Structural Analysis I
Sem. Fall, Spring; Cr 3; Lecture 3
Pre-requisites: AAE 20400 Minimum Grade of D- or CE 27000 Minimum Grade of D- or NUCL 27300 Minimum Grade D- or ME 32300 Minimum Grade D- and AAE 20401 Minimum Grade 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.



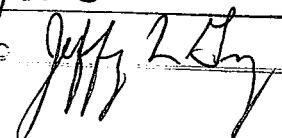
Tom I-P. Shih, Professor and Head
School of Aeronautics and Astronautics

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

Office of the Registrar
 FORM 40 REV. 11/09

(201420)

DEPARTMENT School of Aeronautics and Astronautics

EFFECTIVE SESSION Spring 2014

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:

TERMS OFFERED

Check All That Apply:

Summer Fall Spring

CAMPUS(ES) INVOLVED

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

Subject Abbreviation AAE

Subject Abbreviation _____

Course Number 35200

Course Number _____

Long Title Structural Analysis I

Short Title _____

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

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

1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
 Maximum Repeatable Credit:
4. Credit by Examination
5. Special Fees
6. Registration Approval Type
 Department Instructor
7. Variable Title
8. Honors
9. Full Time Privilege
10. Off Campus Experience

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

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COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

Pre-requisites: AAE 20400 Minimum Grade of D- or CE 27300 Minimum Grade of D- or NUCL 27000 Minimum Grade D- or ME 32300 Minimum Grade D- and AAE 20401 Minimum Grade D- and AAE 25100 Minimum Grade of D- (may be taken concurrently), AAE 20000 Minimum Grade of S

See attached Course Description

***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 _____

Sandra Shaffer 6/3/13
 _____ Date _____
 West Lafayette Registrar

OFFICE OF THE REGISTRAR

36-13
 5/31/13

AAE 35200 – Structural Analysis I

Pre-requisites: AAE 20400 Minimum Grade of D- or CE 27000 Minimum Grade of D- or NUCL 27300 Minimum Grade D- or ME 32300 Minimum Grade D- and AAE 20401 Minimum Grade D- and AAE 25100 Minimum Grade of D- (may be taken concurrently,) AAE 20000 Minimum Grade of S

Course Description: Properties of wing and fuselage sections. Beam-column moments. Torsion of thin-walled and skin-stringer multiple-cell sections. Nonsymmetrical bending of skin-stringer wing sections. Flexural shear in open and closed thin-walled and skin-stringer sections. Loads and stresses in the rib system. Cutouts and shear lag. Modified beam theory for wing and fuselage design. Deflection by energy method. Introduction to composite structures.

