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Engineering Faculty Document No. 36-13

January 17, 2013

OFFICE OF THE REGISTRAR

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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-

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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. Ship, 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

Office of the Registrar FORM 40 REV. 11/09	PURDUE U REQUEST FOR ADDI OR REVISION OF AN UNDE (10000-400	ERGRADUATE COURSE	Print Form
DEPARTMENT School of Aeronautics and Astron	autics EFF	ECTIVE SESSION Spring 2014	(201420)
INSTRUCTIONS: Please check the items below	which describe the purpose of this re-	quest.	() (
1. New course with supporting docu 2. Add existing course offered at an 3. Expiration of a course 4. Change in course number 5. Change in course title 6. Change in course credit/type PROPOSED: Subject Abbreviation AAE	ments	7. Change in course a 8. Change in instruction 9. Change in course of 10. Change in course of 11. Change in semeste	escription
Course Number 35200 Long Title Structural Analysis I Short Title Abbreviated title will be entered	Course Number by the Office of the Registrar if omitt	ed. (30 CHARACTERS ONLY)	CAMPUS(ES) INVOLVED Calumet Cont Ed Ft. Wayne Indianapolis CAMPUS(ES) INVOLVED N. Central Tech Statewide XW. Lafayette
CREDIT TYPE	by the entire of the registre is similar	COURSE ATTRIBUTES: Check A	All That Apply
1.Fixed Credit: Cr. Hrs. 2.Variable Credit Range: Minimum Cr. Hrs (Check One) To Or Maximum Cr. Hrs. 3.Equivalent Credit: Yes No	Pass/Not Pass Only Satisfactory/Unsatisfactory Only Repeatable Maximum Repeatable Credit: Credit by Examination Special Fees	6. Registration Departure 7. Variable Title 8. Honors 9. Full Time for	on Approval Type artment Instructor
ScheduleType Minutes Weekings Per Mtg Week Lecture 50 3 Recitation Presentation Laboratory Lab Prep Studio Distance Clinic Experiential Research Ind. Study Pract/Obsery Minutes Meetings Per Week 10 Study Week 10	Offered 100		RECEIVED APR 2 3 2013 OFFICE OF THE REGISTRAR
COURSE DESCRIPTION (INCLUDE REQUISITE Pre-requisites: AAE 20400 Minimum Grade of D 20401 Minimum Grade D- and AAE 25100 Minimus See attached Course Description *COURSE LEARNING OUTCOMES:	or CE 27300 Minimum Grade of D-	or NUCL 27000 Minimum Grade D currently), AAE 20000 Minimum Gr	o- or ME 32300 Minimum Grade D- and AAE rade of S
Calumet Department Head Date	Calumet School Dean	Date	
Fort Wayne Department Head Date	Fort Wayne School Dean	Date	

OFFICE OF THE REGISTRAR

Date

Indianapolis Department Head

West Lafayefte Department Head

North Central Departn

Date

Date 2/4/

Indianapolis School Dean

West Lafayette College/School Dean

AAE 35200

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.

PURDUE UNIVERSITY Print Form REQUEST FOR ADDITION, EXPIRATION, Office of the Registrar OR REVISION OF AN UNDERGRADUATE COURSE FORM 40 REV. 11/09 (10000-40000 LEVEL) DEPARTMENT School of Aeronautics and Astronautics **EFFECTIVE SESSION Spring 2014** INSTRUCTIONS: Please check the Items below which describe the purpose of this request. New course with supporting documents 1. Change in course attributes (department head signature only) Add existing course offered at another campus 8. Change in instructional hours 9. 3. Expiration of a course Change in course description Change in course requisites Change in course number 10. 11. Change in course title Change in semesters offered (department head signature only) 5. Transfer from one department to another 6. Change in course credit/type **TERMS OFFERED** PROPOSED: EXISTING: Check All That Apply: Subject Abbreviation AAE Subject Abbreviation Summer X Fall X Spring Course Number · 35200 Course Number CAMPUS(ES) INVOLVED Calumet N. Central Long Title Structural Analysis I Cont Ed Tech Statewide Ft. Wayne XW. Lafayette Short Title Indianapolis Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY) **CREDIT TYPE** COURSE ATTRIBUTES: Check All That Apply Fixed Credit: Cr. Hrs. 1. Pass/Not Pass Only 6. Registration Approval Type 2.Variable Credit Range: 2. Satisfactory/Unsatisfactory Only Department Instructor Minimum Cr. Hrs 3. Repeatable 7. Variable Title (Check One) Or Maximum Repeatable Credit: 8. Honors Maximum Cr. Hrs. 4. Credit by Examination 9. Full Time Privilege 3.Equivalent Credit: Yes No 5. Special Fees 10. Off Campus Experience ScheduleType Minutes Meetings Per Weeks % of Credit Cross-Listed Courses Per Mtg Week Offered Allocated Lecture 16 100 Recitation RECEIVED Presentation Laboratory Lab Prep Studio Distance Clinic Experiential Research Ind. Study Pract/Observ 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 School Dean Calumet Department Head Date Date Fort Wayne Department Head Date Fort Wayne School Dean Date Date Indianapolis School Dean Indianapolis Department Head Date Date North Central Departm Date

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West Lafayette Department Head