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AAE 30100

APR 24 2013

OFFICE OF THE REGISTRAR

Engineering Faculty Document No. 34-13

January 17, 2013

Page 1 of 1

TO: The Faculty of the College of Engineering

FROM: The School of Aeronautics and Astronautics


RE: Change to Existing Course AAE 30100 Signal Analysis for Aerospace Engineering prerequisites

The faculty of the School of Aeronautics and Astronautics has approved the following changes to AAE 30100. This action is now submitted to the Engineering Faculty with a recommendation for approval.

From: AAE 30100 Signal Analysis for Aerospace Engineering
Sem. Fall, Spring; Cr 3; Lecture 3
Pre-requisites: MA 26500 Minimum Grade of D- or MA 35100 Minimum Grade of D- and MA 26600 Minimum Grade of D- or MA 36600 Minimum Grade of D-

To: AAE 30100 Signal Analysis for Aerospace Engineering
Sem. Fall, Spring; Cr 3; Lecture 3
Pre-requisites: AAE 20000 Minimum Grade of S, (MA 26500 Minimum Grade of D- or MA 35100 Minimum Grade of D-) and (MA 26600 Minimum Grade of D- or MA 36600 Minimum Grade of D-) and AAE 25100 Minimum Grade of D- (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 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 |

PROPOSED:

EXISTING:

Subject Abbreviation AAE

Subject Abbreviation _____

Course Number 30100

Course Number _____

Long Title Signal Analysis For Aerospace Engineering

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

- | | |
|---------------------------------------|--|
| <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 | |

CREDIT TYPE

COURSE ATTRIBUTES: Check 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

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

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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APR 23 2013

OFFICE OF THE REGISTRAR

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

Pre-requisites: AAE 20000 Minimum Grade of S, MA 26500 Minimum Grade of D- or MA 35100 Minimum Grade of D- and MA 26600 Minimum Grade of D- or MA 36600 Minimum Grade of D- and AAE 25100 Minimum Grade of D- (may be taken concurrently)
Signal processing and spectral analysis for aerospace engineering. Fourier and fast Fourier transforms. Vibration analysis; estimation of natural frequencies, wing vibrations. Introduction to linear circuits, operational amplifiers and filtering. Noise suppression.

***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 4/23/13

24-13
18 5/31/13