Office of the Registrar FORM 40 REV. 2/99

PURDUE UNIVERSITY REQUEST FOR ADDITION, DELETION, OR REVISION OF A COURSE

SCHOOL DOCUMENT NO. 88-00

GRADUATE COUNCIL DOCUMENT NO. 01-31a
Fa11 2002
DATE SUBMITTED 10/23/01 DATE EFFECTIVE Spr 2002

DEPARTMENT Aeronautics & Astronautics

INCTRICCTIONS. Please check the items below which describe the surpose of this request			
INSTRUCTIONS: Please check the items below which describe the purpose of this request. PURPOSE			
1. Deletion of a course 2. New course with supporting docume 3. Add existing course offered at anoth 4. Change in course number at same I 5. Downgrading of course level 6. Upgrading of course level 7. Change in course title	ner campus 10 level 11 12 13	Change in semesters offe Change in course credit/t Change in course attribut Change in instructional ho Change in prerequisites Change in description of a Transfer of course from of	ype tes ours course content
EXISTING:	PROPOSED:		SEMESTERS OFFERED
Subject Abbreviation Subject Abbreviation AAE Check All That Apply. Course Number 536 Summer Fall Ag Winter Spring			
Proposed Title Advanced Energy Conversion for Aerospace Systems Variable Title Yes No			
Abbreviated Title Adv Engry Con Aero Sys Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)			
2. Vari	TYPE Id Credit: Cr. Hrs. 3 able Credit Range: Minimum Cr. Hrs (Check One) To Or Maximum Cr. Hrs. ivalent Credit: Yes No ivalent Credit: Yes No		lit by Examination
Instructional Class FTE Instructional Type Hours Type Primary 3 Auto-tutorial Secondary Ind. Study Laboratory Clinic Lab. Prep. Experiential		Class FTE Hours	CAMPUS(ES) INVOLVED Calumet Fort Wayne Indianapolis North Central West Lafayette Off Campus
COURSE DESCRIPTION (PREREQUISITES INCLUDED): AAE 536, Advanced Energy Conversion for Aerospace Systems, Sem. 1, Class 3, cr. 3. Prerequisite: AAE372 or AAE439 or AAE539 or consent of instructor. Fundamentals of advanced energy conversion processes, with a strong emphasis on thermodynamics, kinetics, and atomic physics, as applied to aerospace systems. Concepts in physical chemistry, including atomic phenomena, a review of thermodynamics, kinetics, and rate processes, electrochemistry, photochemistry, surface processes and catalysis, and colloidal phenomena, energy storage, thermoelectric and thermionic power generation, fuel cells, direct matter to energy conversion, field power generation, and electric fusion concepts.			
Calumet Undergrad Curriculum Committee Date	Calumet Department Head	Date Calumet School D	ean Date
Fort Wayne Department Head Date	Fort Wayne School Dean	Date Fort Wayne Chand Appr.for Fac C.D.Sutton,C	ulty #954
Indianapolis Department Head Date	Indianapolis School Dean	Date Undergrad Curricu	ulum Committee Date
North Central Department Head Date 10 25 0 West Lafayette Department Head Date	North Central Vice Chancellor West Lafayette School Dean North Central Vice Chancellor 13	Date Date APPROVE Date Date Approved by March Date Graduate Conneil	Graduate Council About 4/5/02
Graduate Area Committee Convener Date	Graduate Dean	Date West Lafayette R	Mut 4/25/02 Pate
Graduate Area Committee Convener Date		2000 Troot Larayette IV	-a.c Date