Office of the Registrar FORM 40 REV. 2/99

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

SCHOOL DOCUMENT NO.	39-01
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GRADUATE COUNCIL DOCUMENT NO.

DEPARTMENT Aeronautics & Astronautics	MONTH THE PROPERTY AND A SECRETARY PROPERTY OF THE PROPERTY OF	DATE SUBMITTED 06/	DATE EFFECTIVE	Fall 2002 3	
INSTRUCTIONS: Please check the items below which					
1. Deletion of a course 2. New course with supporting docum 3. Add existing course offered at anol 4. Change in course number at same 5. Downgrading of course level 6. Upgrading of course level 7. Change in course title	ther campus	8. Change in 9. Change in 10. Change in 11. Change in 12. Change in 13. Change in	n semesters offered n course credit/type n cour se attributes n instructional hours n prerequisites n description of course content of course from one dept. to another		
EXISTING:	PROPOSED:	7.5.5	SEMESTERS OFF	ERED	
Subject Abbreviation AAE Course Number 558 Proposed Title Finite Element Methods in Ae Variable Title Yes No	Course Number		Check All That Apply.	Vinter Spring	
Abbreviated Title Fin El Meth Aero Struc Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)					
2. Var	TYPE ed Credit: Cr. Hrs. 3 riable Credit Range: Minimum Cr. Hrs (Check One) To Maximum Cr. Hrs. uivalent Credit: Yes esis Credit: Yes	1. Pass 2. Rep 3. Avai 4. Desi 5. Spec	E ATTRIBUTES: Check All That Apply s/Not Pass Only seatable for Credit illable for Credit by Examination ignator Required cial Fees roval Required for Enrollment Department Instructor	,	
Instructional Class FTE Instructional Type Hours Type Primary 3 Auto-tutorial Secondary Ind. Study Laboratory Clinic Lab. Prep. Experiential	Hours Type Thesi Obse	Hours	FTE CAMPUS(ES) I Calumet Fort Wayne Indianapolis North Central West Lafayette Off Campus	INVOLVED	
COURSE DESCRIPTION (PREREQUISITES INCLUDED): AAE 558 Finite Element Methods in Aerospace Structures Sem. 1, class 3, cr. 3; Prerequisite: AAE 453 or consent of instructor. Introduction to the use of advanced finite element methods in the calculation of deformation, strain, and stress in aerospace structures. Topics include: 1-D, 2-D, 3-D, and axisymmetric elements, isoparametric element formulation, convergence, treatment of boundary conditions and constraints. Special topics include stability, dynamic analysis, and nonlinear material behavior. Emphasis is on the theoretical knowledge of the finite element method. Applied experience is gained by solution of aerospace structural analysis problems through use of professional software.					
Calumet Undergrad Curriculum Committee Date	Calumet Department Head	Date (Calumet School Dean	Date	
Fort Wayne Department Head Date	Fort Wayne School Dean	A	Fort Wayne Chancelle Charles for Faculty 1.D.Zoltowski, Chair	Date 2/26/03	
Indianapolis Department Head Date	Indianapolis School Dean	Date U	Undergrad Curriculum Committee	Date	
North Central Department Head Date West Lafayette Department Head Date	North Central Vice Chancellor West Lafayette School Dean	A-K 3/5/03 2	Date Approved by Graduate Council Marily D. Hair Graduate Council Secretary Mulica Muli	6/18/03 Date	
Graduate Area Committee Convener Date	Graduate Dean	Date V	West Lafa ce in This infing OFFICIA'	Date	