

DEPARTMENT Mechanical Engineering

DATE SUBMITTED 11/7/00

DATE EFFECTIVE Spr 2001

INSTRUCTIONS: Please check the items below which describe the purpose of this request.

PURPOSE

- | | |
|---|---|
| <input type="checkbox"/> 1. Deletion of a course | <input type="checkbox"/> 8. Change in semesters offered |
| <input checked="" type="checkbox"/> 2. New course with supporting documents | <input type="checkbox"/> 9. Change in course credit/type |
| <input type="checkbox"/> 3. Add existing course offered at another campus | <input type="checkbox"/> 10. Change in course attributes |
| <input type="checkbox"/> 4. Change in course number at same level | <input type="checkbox"/> 11. Change in instructional hours |
| <input type="checkbox"/> 5. Downgrading of course level | <input type="checkbox"/> 12. Change in prerequisites |
| <input type="checkbox"/> 6. Upgrading of course level | <input type="checkbox"/> 13. Change in description of course content |
| <input type="checkbox"/> 7. Change in course title | <input type="checkbox"/> 14. Transfer of course from one dept. to another |

EXISTING:

PROPOSED:

Subject Abbreviation _____ Subject Abbreviation ME
 Course Number _____ Course Number 588
 Proposed Title Mechatronics - Integrated Design of Electro-Mechanical Systems
 Variable Title Yes No

SEMESTERS OFFERED

Check All That Apply.

Summer Fall Ag Winter Spring

Abbreviated Title Mechatronics

Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

CROSS LISTED COURSES

CREDIT TYPE

- Fixed Credit: Cr. Hrs. 3
- Variable Credit Range:
Minimum Cr. Hrs _____
(Check One) To Or
Maximum Cr. Hrs _____
- Equivalent Credit: Yes No
- Thesis Credit: Yes No

COURSE ATTRIBUTES: Check All That Apply.

- Pass/Not Pass Only
 - Repeatable for Credit
 - Available for Credit by Examination
 - Designator Required
 - Special Fees
 - Approval Required for Enrollment
- Department _____
Instructor _____

Instructional Type	Class Hours	FTE	Instructional Type	Class Hours	FTE	Instructional Type	Class Hours	FTE	CAMPUS(ES) INVOLVED
Primary	<u>2</u>	_____	Auto-tutorial	_____	_____	Thesis	_____	_____	Calumet <input type="checkbox"/>
Secondary	_____	_____	Ind. Study	_____	_____	Observation	_____	_____	Fort Wayne <input type="checkbox"/>
Laboratory	<u>3</u>	_____	Clinic	_____	_____	Matis Based	_____	_____	Indianapolis <input type="checkbox"/>
Lab. Prep.	_____	_____	Experiential	_____	_____				North Central <input type="checkbox"/>
									West Lafayette <input checked="" type="checkbox"/>
									Off Campus <input type="checkbox"/>

COURSE DESCRIPTION (PREREQUISITES INCLUDED):

ME 588 Mechatronics - Integrated Design of Electro-Mechanical Systems Sem.1. Class 2, Lab,3, cr. 3. Prerequisite: senior standing or consent of instructor. Electronic and interfacing techniques for design and control of electro-mechanical systems. Basic digital and analog design with applications to electro-mechanical interfacing via hands-on laboratory experience. Commonly used actuators and sensors and corresponding interfacing techniques. Realistic and integrated product development experience provided through a comprehensive final project where working prototypes are built to defined specifications. Professor Chiu and staff.

Calumet Undergrad Curriculum Committee	Date	Calumet Department Head	Date	Calumet School Dean	Date
Fort Wayne Department Head	Date	Fort Wayne School Dean	Date	Fort Wayne Chancellor	Date
				Appr. for Faculty <u>C.D. Sutton</u> #935	<u>11/8/00</u>
				C.D. Sutton, Chair	
Indianapolis Department Head	Date	Indianapolis School Dean	Date	Undergrad Curriculum Committee	Date
				APPROVED 4/19/01	
North Central Department Head	Date	North Central Vice Chancellor	Date	Date Approved by Graduate Council	
<u>E. Daniel Hartman</u> / 907	<u>11/7/00</u>	<u>L. J. Higgins</u> / 7	<u>Nov 00</u>	<u>Marilyn D. Heist</u>	<u>5/8/01</u>
West Lafayette Department Head	Date	West Lafayette School Dean	Date	Graduate Council Secretary	Date
<u>Kathleen C. Howell</u>	<u>4/19/01</u>			<u>Debra Dhreto</u>	<u>5/14/01</u>
Graduate Area Committee Convener	Date	Graduate Dean	Date	West Lafayette Registrar	Date

