

DEPARTMENT Mechanical Engineering

DATE SUBMITTED 11/7/00

DATE EFFECTIVE Fall 2000

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:

SEMESTERS OFFERED

Subject Abbreviation _____ Subject Abbreviation ME
Course Number _____ Course Number 526

Check All That Apply.

Summer Fall Ag Winter Spring

Proposed Title Spray Application and Theory

Variable Title Yes No

Abbreviated Title Spray Applicand Theory

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

Spray Applic & theory

CROSS LISTED COURSES

CREDIT TYPE

COURSE ATTRIBUTES: Check All That Apply.

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

1. Pass/Not Pass Only
2. Repeatable for Credit
3. Available for Credit by Examination
4. Designator Required
5. Special Fees
6. Approval Required for Enrollment
Department _____
Instructor _____

Instructional Type	Class Hours	FTE	Instructional Type	Class Hours	FTE	Instructional Type	Class Hours	FTE
Primary	<u>3</u>		Auto-tutorial			Thesis		
Secondary			Ind. Study			Observation		
Laboratory			Clinic			Matis Based		
Lab. Prep.			Experiential					

CAMPUS(ES) INVOLVED

Calumet	<input type="checkbox"/>
Fort Wayne	<input type="checkbox"/>
Indianapolis	<input type="checkbox"/>
North Central	<input type="checkbox"/>
West Lafayette	<input checked="" type="checkbox"/>
Off Campus	<input type="checkbox"/>

COURSE DESCRIPTION (PREREQUISITES INCLUDED):

ME 526 Spray Application, and Theory Sem. 1. Class 3, cr. 3. (Offered in alternate years) Prerequisite: ME 315 or consent of instructor. Theory of spray formation and evolution, as well as treating a host of spray applications. Topics include drop size distributions, breakup of liquid sheets and ligaments, drop formation and breakup, drop motion and the interaction between a spray and its surroundings, drop evaporation, nozzle internal fluid mechanics, external spray characteristics, nozzle performance, and experimental techniques relevant to these subjects. Applications include: (1) agricultural sprays, (2) consumer products, (3) gas turbine combustion, (4) heat transfer, (5) internal combustion engines, (6) paints and coatings, (7) pharmaceutical and medicinal sprays, and (8) spray drying. Professor Sojka.

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 C.D. Sutton #935
C.D. Sutton, Chair 11/8/00

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 _____

E. Daniel Hirtleman 11/7/00 L. J. [Signature] 7 Nov 00 Marilou D. [Signature] 5/8/01
West Lafayette Department Head Date _____ West Lafayette School Dean Date _____ Graduate Council Secretary Date _____

Kathleen C. Howell 4/19/01 [Signature] [Signature] 5/14/01
Graduate Area Committee Convener Date _____ Graduate Dean Date _____ West Lafayette Registrar Date _____

