

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

SCHOOL DOCUMENT NO. 19-00

GRADUATE COUNCIL DOCUMENT NO. 00-20e

DEPARTMENT Mechanical Engineering

DATE SUBMITTED 11/7/00

DATE EFFECTIVE Spr 2001/2

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 540
 Proposed Title Internal Combustion Engines
 Variable Title Yes No

SEMESTERS OFFERED

Check All That Apply.

Summer Fall Ag Winter Spring

Abbreviated Title Internal Combust Engns

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

Primary 2
Secondary _____
Laboratory 3
Lab. Prep. _____

Class Hours

FTE

Instructional Type

Auto-tutorial _____
Ind. Study _____
Clinic _____
Experiential _____

Class Hours

FTE

Instructional Type

Thesis _____
Observation _____
Matis Based _____

Class Hours

FTE

CAMPUS(ES) INVOLVED

Calumet
Fort Wayne
Indianapolis
North Central
West Lafayette
Off Campus

COURSE DESCRIPTION (PREREQUISITES INCLUDED):

ME 540 Internal Combustion Engines Sem. 2. Class 2, lab.3, cr. 3. (Offered in alternate years.) Prerequisite: senior standing or consent of instructor. Not available to students with credit in ME 440. Performance of internal combustion engines in relation to the fundamentals of thermodynamics, fluid mechanics and heat transfer in the engine intake, cylinder, and exhaust systems. Spark-ignition and compression-ignition engine processes. Fundamental physics of turbulence, boundary layer effects, atomization and structure of sprays, premixed and non-premixed combustion and pollutants. Modeling of engine processes. Hands-on experiences through laboratory experiments. Professor Abraham.

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 Holman 11/7/00 _____ Date _____ L. D. Huggins 7/10/00 _____ Date _____ Marilyn D. Heist 5/8/01 _____ Date _____

West Lafayette Department Head _____ Date _____ West Lafayette School Dean _____ Date _____ Graduate Council Secretary _____ Date _____

Kathleen C. Howell 4/19/01 _____ Date _____ Graduate Dean _____ Date _____ Debra Sheets 5/14/01 _____ Date _____

Graduate Area Committee Convener _____ Date _____ West Lafayette Registrar _____ Date _____

