

Spring 2005
~~SPRING 2004~~ EFD 10-03

DEPARTMENT MECHANICAL ENGINEERING

EFFECTIVE SESSION

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

- | | | | |
|-------------------------------------|--|--------------------------|----------------------------------|
| <input checked="" type="checkbox"/> | 1. New course with supporting documents | <input type="checkbox"/> | 7. Change in course attributes |
| <input type="checkbox"/> | 2. Add existing course offered at another campus | <input type="checkbox"/> | 8. Change in instructional hours |
| <input type="checkbox"/> | 3. Expiration of a course | <input type="checkbox"/> | 9. Change in course description |
| <input type="checkbox"/> | 4. Change in course number | <input type="checkbox"/> | 10. Change in course requisites |
| <input type="checkbox"/> | 5. Change in course title | <input type="checkbox"/> | 11. Change in semesters offered |
| <input type="checkbox"/> | 6. Change in course credit/type | | |

PROPOSED:

Subject Abbreviation ME
Course Number 577

EXISTING:

Subject Abbreviation _____
Course Number _____

TERMS OFFERED
Check All That Apply:
Summer Fall Spring

Long Title Human Motion Kinetics

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

CAMPUS(ES) INVOLVED
Calumet Fort Wayne
Indianapolis N. Central
W.Lafayette Cont Ed
Tech Statewide

CREDIT TYPE

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

COURSE ATTRIBUTES: Check All That Apply.

1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
Maximum repeatable credit:
4. Credit by Examination
5. Designator Required
6. Special Fees

7. Registration Approval Type
Department Instructor
8. Variable Title
9. Remedial
10. Honors
11. Full Time Privilege
12. Off Campus Experience

Instructional Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated	Delivery Method (Asyn. Or Syn.)	Delivery Medium (Audio, Internet, Live, Text-Based, Video)
Lecture	50	3	16	100	SYN	LIVE
Recitation						
Presentation						
Laboratory						
Lab Prep						
Studio						
Distance						
Clinic						
Experiential						
Research						
Ind. Study						
Pract/Observ						

COURSE DESCRIPTION (INCLUDE REQUISITES):

ME 577 - Human Motion Kinetics, Sem. 2 (alternate years), Class 3, cr. 3. Prerequisite: ME 352 or equivalent ^{consent of} instructor ~~or permission~~.
•Study of kinetics related to human motion. Review of human anatomy and anthropometric data. Planar and three-dimensional kinematic analysis of gross human motion. Detailed kinematic studies of human joints. Newton-Euler and Lagrangian methods for joint torques. Muscle force and power analysis. Studies on walking, jumping, cycling, and throwing exercises.
Professors Krousgrill and Pennock.

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
Indianapolis Department Head	Date	Indianapolis School Dean	Date	<i>Robert Montgomery</i> 1/27/04	Date
North Central Department Head	Date	North Central Chancellor	Date	Undergrad Curriculum Committee	Date
<i>Daniel Holleman</i> 1/16/04	Date	<i>Leah H. Jamis</i> - 2/2/04	Date	APPROVED 11/18/04	Date
West Lafayette Department Head	Date	West Lafayette School Dean	Date	Date Approved by Graduate Council	Date
<i>Andrew S. ...</i> 11/18/04	Date		Date	<i>Marilyn D. Geist</i> 12/17/04	Date
Graduate Area Committee Convener	Date	Graduate Dean	Date	Graduate Council Secretary	Date
	Date		Date	<i>Debra K. Dreibel</i> 12/27/04	Date
	Date		Date	West Lafayette Registrar	Date

JAN 18 2005