Office of the Registrar FORM 40 REV. 2/99

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

SCHOOL DOCUMENT NO. 58-00

GRADUATE COUNCIL DOCUMENT NO. 01-27c

| EPARIMENI Mechanical Engine  | ering  | DATE SUBMITTED $rac{1}{2}$  | 10/24/01 DATE EFFECT   | TVE Spring 2003  |
|--|--|--|--|--|
| INSTRUCTIONS: Please check the items below   |  |  |  |  |
| 1. Deletion of a course 2. New course with supporting do 3. Add existing course offered at 4. Change in course number at s 5. Downgrading of course level 6. Upgrading of course level 7. Change in course title   | another campus   | 8. Chang<br>9. Chang<br>10. Chang<br>11. Chang<br>12. Chang<br>13. Chang | ge in semesters offered<br>ge in course credit/type<br>ge in cour se attributes<br>ge in instructional hours<br>ge in prerequisites<br>ge in description of course conten<br>fer of course from one dept. to an  | t<br>other   |
| EXISTING:  | PROPOSED:  |  | SEMESTERS  | OFFERED  |
| Subject Abbreviation Course Number  Proposed Title Bifurcations and  | Course Number  | ME<br>680  | Check All That Apply Summer Fall   | Ag Winter Spring   |
| Variable Title Yes No X  |  |  | A CONTRACTOR OF THE CONTRACTOR |  |
| Abbreviated Title Bifurcations and Control Abbreviated title will be entered by the Office Abbreviated title will be entered by the Office Abbreviated Title Bifurcations and Control Bifurcatio |  | CHARACTERS ONLY)   | Bit-contacts accounts  |  |
| The contract of the contr      | DIT TYPE Fixed Credit: Cr. Hrs. Variable Credit Range: Minimum Cr. Hrs (Check One) To Maximum Cr. Hrs. Equivalent Credit: Yes Thesis Credit: Yes | 1. P<br>2. R<br>3. A<br>4. D<br>5. S                                     | RSE ATTRIBUTES: Check All That<br>Pass/Not Pass Only<br>Repeatable for Credit<br>Available for Credit by Examination<br>Designator Required<br>Special Fees<br>Approval Required for Enrollment<br>Department<br>Instructor  | See Constitution of the Co |
| Instructional     Class     FTE     Instruction       Type     Hours     Type       Primary     3     Auto-tutor       Secondary     Ind. Study       Laboratory     Clinic       Lab. Prep.     Experiention  | al Hours Type Thes Obse Matts  | s prvation Based   | Calumet Fort Wayne Indianapolis North Centi West Lafay Off Campus  | s production and a second control of the sec |
| COURSE DESCRIPTION (PREREQUISITES INC  | CLUDED): ME 580 or con   | sent of the in   | nstructor. Basic c   | oncepts in   |
| stability of systems, nonline<br>geometric techniques for loca<br>and partial differential equa<br>electrical systems. Models of<br>Routes to chaos. Professor I   | ear dynamical system<br>al bifurcation analy<br>ations. Examples fr<br>chaotic behavior.<br>Bajaj. (Offered in a                                 | s, and bifurca<br>sis. Models go<br>om mechanical,<br>Techniques fo      | ation theory. Alge overned by differen, structural, chemi or prediction of ches.)  | braic and<br>ce, ordinary,<br>cal, and   |
| 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 Appr.for Faculty C.D.Sutton, Chair   | Date<br>#954<br>11/14/01   |
| Indianapolis Department Head Date  | Indianapolis School Dean   | Date   | Undergrad Curriculum Committee   | Date   |
|  |  |  | APPROVED 2/21/02   |  |
| North Central Department Head Date  Under St Lafayette Department Head Date  | North Central Vice Chancellor  West Lafayette School Dean  | Date  /3///Date  | Date Approved by Graduate Council  Marily D. Heise Graduate Council Secretary  | £ 4/5/02 Date  |
| 16 BC 2/2/10   | ·<br>}_  |  | Debra Sheota   | 4/25/07  |
| Graduate Area Committee Convener Date  | Graduate Dean  | Date   | West Lafayette Registrar   | Date   |

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