Office of the Registrar FORM 40 REV. 2/99

Graduate Area Committee Convener

Date

Graduate Dean

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

SCHOOL DOCUMENT NO. 26-00

GRADUATE COUNCIL DOCUMENT NO. 01-27d

DATE SUBMITTED 10/24/01 DATE EFFECTIVE Spring 2003 DEPARTMENT Mechanical Engineering INSTRUCTIONS: Please check the items below which describe the purpose of this request. Change in semesters offered Deletion of a course Change in course credit/type New course with supporting documents Change in cour se attributes Add existing course offered at another campus ∄3. Change in course number at same level 11 Change in instructional hours Downgrading of course level 12. Change in prerequisites Change in description of course content Upgrading of course level 13. 14. Transfer of course from one dept. to another Change in course title PROPOSED: SEMESTERS OFFERED **EXISTING**: Subject Abbreviation ME Check All That Apply. Subject Abbreviation Course Number Course Number 689 Summer Fall Ag Winter Spring X Proposed Title Adaptive Control Variable Title Yes No X Abbreviated Title Adaptive Control Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY) CROSS LISTED COURSES CREDIT TYPE COURSE ATTRIBUTES: Check All That Apply. Fixed Credit: Cr. Hrs. Pass/Not Pass Only Variable Credit Range: 2. Repeatable for Credit Available for Credit by Examination Minimum Cr. Hrs 3. (Check One) To Designator Required Maximum Cr. Hrs. 5. Special Fees Approval Required for Enrollment Equivalent Credit: Yes No 6. Thesis Credit: No X Department Yes Instructor Instructional <u>Instructional</u> Instructional CAMPUS(ES) INVOLVED Class FTE Class Class FTE Calumet Hours <u>Type</u> Hours Type Type Fort Wayne Auto-tutorial Thesis Primary Observation Indianapolis Secondary Ind. Study North Central Laboratory Clinic Matls Based West Lafayette Lab. Prep. Experiential Off Campus Prerequisite: Theory and appli-COURSE DESCRIPTION (PREREQUISITES INCLUDED): ME 575 or consent of the instructor. cation of adaptive control of linear systems in both continuous and discrete time domain. Real-time parameter estimation algorithms, direct and indirect adaptive methods, deterministic self-tuning regulators, Lyapunov stability theory, input-output stability, modelreference adaptive control, stability and convergence of adaptive algorithms, robustness, and implementation issues, with laboratory experiments and demonstrations. Professor Yao. (Offered in alternate years.) (May be repeated for credit.) Calumet School Dean Date Calumet Undergrad Curriculum Committee Calumet Department Head Fort Wayne Chancellor Fort Wayne Department Head Date Fort Wayne School Dean Date Appr.for Faculty #954 C.D.Sutton, Chair 11/14/0 Undergrad Curriculum Committee Indianapolis Department Head Indianapolis School Dean Date APPROVED 2/21/02 entral/Department Head North Central Vice Chancello Date Approved by Graduate Council West Lafayette School Deal West Lafayette Department Head

West Lafayette Registrar

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