Office of the Registrar FORM 40 REV. 2/99

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

SCHOOL DOCUMENT NO. EFO 66 50

DARWATE COUNCIL BOOUNENT NO

GRADUATE COUNCIL DOCUMENT NO. DEPARTMENT Agricultural and Biological Engineering DATE SUBMITTED 5/9/01 DATE EFFECTIVE SUMMER '01 INSTRUCTIONS: Please check the items below which describe the purpose of this request. **PURPOSE** Change in semesters offered Deletion of a course New course with supporting documents Change in course credit/type 2. Add existing course offered at another campus 10. Change in course attributes Change in course number at same level Change in instructional hours 11. Downgrading of course level Change in prerequisites 12. Upgrading of course level Change in description of course content 13. Change in course title Transfer of course from one dept. to another PROPOSED: SEMESTERS OFFERED EXISTING: Subject Abbreviation ABE Subject Abbreviation ABE Check All That Apply. Course Number Ag Winter Course Number 210 210 Summer Fali Spring Proposed Title Biological Applications of Material and Energy Balances 1 Yes No V Variable Title Abbreviated Title Biol App Mat Energ Bal Abbreviated title will be entered by the Office of the Registrar if omitted. COURSE ATTRIBUTES: Check All That Apply. **CROSS LISTED COURSES** CREDIT TYPE Fixed Credit: Cr. Hrs. 3 Pass/Not Pass Only Variable Credit Range: 2. Repeatable for Credit 3. Minimum Cr. Hrs Available for Credit by Examination (Check One) To 4. Designator Required Or Maximum Cr. Hrs. 5. Special Fees Equivalent Credit: No 🔽 Yes 6. Approval Required for Enrollment □ No □✓ Thesis Credit: Yes Department Instructor Instructional Class FTE Class FTE Instructional Class FTE CAMPUS(ES) INVOLVED Instructional <u>Type</u> <u>Type</u> **Hours** Type <u>Hours</u> Calumet Auto-tutorial Primary Thesis Fort Wayne Secondary Ind. Study Observation Indianapolis Clinic Matls Based North Central Laboratory Experiential Lab. Prep. West Lafayette Off Campus COURSE DESCRIPTION (PREREQUISITES INCLUDED): , cr. 3. Prerequisite: CHM 116, CS 152 or CS 156, PHYS 152, or equivalent. Applications of material and energy balances to biological and engineering systems; development of a framework for the analysis of biological systems from an engineering perspective. Introduction to applications of the first and second laws of thermodynamics to biological and mechanical engineering systems. Topics include refrigeration systems, power cycles, energy conversion systems, and environmental impacts of energy production, Calumet Department Head Calumet Undergrad Curriculum Committee Date Calumet School Dean Date Fort Wayne Department Head Date Fort Wayne School Dean Fort Wayne Chancellor Date Appr.for Faculty C.D.Sutton, Chair #944 2/14/01 Date Indianapolis School Dean Date Indianapolis Department Head Undergrad Curriculum Committee Date Date Approved by Graduate Council

Date

Date

Graduate Dean

Lafavette Department Head

Graduate Area Committee Convener

Graduate Council Secreta

West Lafayette Registrar

Date