### Course Proposal Form

**PURDUE UNIVERSITY**

**REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF A GRADUATE COURSE**

**(500-600 LEVEL)**

**DEPARTMENT:** ECE  
**EFFECTIVE SESSION:** Spr08

### INSTRUCTIONS:

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

1. New course with supporting documents (complete proposal form)
2. Add existing course offered at another campus
3. Expiration of a course
4. Change in course number
5. Change in course title
6. Change in course credit type
7. Change in course attributes
8. Change in instructional hours
9. Change in course description
10. Change in course requisites
11. Change in semesters offered
12. Transfer from one department to another

### PROPOSED:

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>Course Number</th>
<th>Long Title</th>
<th>Short Title</th>
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</thead>
<tbody>
<tr>
<td>ECE</td>
<td>684</td>
<td>LINEAR MULTIVARIABLE CONTROL</td>
<td>LINEAR MULTIVAR CTRL</td>
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Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

### TERMS OFFERED:

- Summer
- Fall
- Spring

### CAMPUS(ES) INVOLVED:

- Calumet
- Fort Wayne
- Indianapolis
- N. Central
- Tech Statewide
- W. Lafayette

### CREDIT TYPE:

<table>
<thead>
<tr>
<th>Instructional Type</th>
<th>Minutes Per Mig</th>
<th>Meetings Per Week</th>
<th>Weeks Offered</th>
<th>% of Credit Allocated</th>
<th>Delivery Method</th>
<th>Delivery Medium (Audio, Internet, Live, Text-Based, Video)</th>
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### COURSE ATTRIBUTES:

- Check All That Apply

1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
4. Minimum Repeatable Credit:
5. Designator Required
6. Special Fees
7. Registration Approval Type
8. Variable Title
9. Remedial
10. Honors
11. Full Time Privilege
12. Off Campus Experience

### INSTRUCTIONAL TYPE:

- Lecture
- Recitation
- Presentation
- Laboratory
- Lab Prep
- Studio
- Distance
- Clinic
- Experiential
- Research
- ind. Study
- Pract/Obsev

### COURSE DESCRIPTION (INCLUDE REQUISITES):

- Calumet Department Head
- Calumet School Dean
- Calumet Undergrad Curriculum Committee
- Fort Wayne Department Head
- Fort Wayne School Dean
- Fort Wayne Chanceller
- Indianapolis Department Head
- Indianapolis School Dean
- Undergrad Curriculum Committee
- North Central Department Head
- North Central Chancellor
- Date Approved by Graduate Council
- West Lafayette Department Head
- West Lafayette College/School Dean
- Graduate Council Secretary
- West Lafayette Registrar

**OFFICE OF THE REGISTRAR**

- **Signature:** [Signature]
- **Date:** 2/8/08
TO: The Faculty of the College of Engineering

FROM: The Faculty of the School of Electrical and Computer Engineering

RE: Deletion of ECE 684

The faculty of the School of Electrical and Computer Engineering has approved the deletion of the following course. This action is now submitted to the Engineering Faculty with a recommendation for approval.

ECE 684 Linear Multivariable Control
Sem. 2. Class 3, cr. 3. (Offered in alternate years.)
Prerequisite: ECE 602. Authorized equivalent courses or consent of instructor may be used in satisfying course pre- and co-requisites.

A state space investigation of multi-input, multi-output control design problems from the geometric perspective. The course will detail the theory and design algorithms needed for a solution to the state feedback eigenvalue assignment problem, the disturbance decoupling problem with and without internal stability, the output stabilization problem, and the tracking (or regulator) problem with internal stability.

Reason: Faculty in charge of the course no longer interested in offering it. No interest among other area members to take over the course.

Mark J.T. Smith, Head
School of Electrical & Computer Engineering

APPROVED FOR THE FACULTY OF THE SCHOOLS OF ENGINEERING BY THE ENGINEERING CURRICULUM COMMITTEE

ECC Minutes #10
Date 12-3-07
Chairman ECC [Signature]