

PURDUE UNIVERSITY

Print Form

Office of the Registrar
FORM 40G REV. 10/10

REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF A GRADUATE COURSE
(50000-60000 LEVEL)

EFD 13-11

DEPARTMENT School of Aeronautics & Astronautics

EFFECTIVE SESSION Spring 2011

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

- | | | | |
|-------------------------------------|--|--------------------------|---|
| <input type="checkbox"/> | 1. New course with supporting documents (complete proposal form) | <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 checked="" 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 | <input type="checkbox"/> | 12. Transfer from one department to another |

PROPOSED:

EXISTING:

Subject Abbreviation _____ Subject Abbreviation AAE _____

Course Number _____ Course Number 66400 _____

Long Title Estimation and Control of Uncertain Dynamical Systems

Short Title _____

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

TERMS OFFERED

Check All That Apply:

Fall Spring Summer

CAMPUS(ES) INVOLVED

Calumet N. Central
 Cont Ed Tech Statewide
 Ft. Wayne W. Lafayette
 Indianapolis

CREDIT TYPE

COURSE ATTRIBUTES: Check All That Apply

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

1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
 Maximum Repeatable Credit: _____
4. Credit by Examination
5. Special Fees

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

Schedule Type	Minutes Per Mtu	Meetings Per Week	Weeks Offered	% of Credit Allocated
ecture				
itation				
resentation				
Laboratory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

Cross-Listed Courses

RECEIVED
 OFFICE OF THE REGISTRAR
 2011 JAN 26 AM 10:06

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

Calumet Department Head _____ Date _____	Calumet School Dean _____ Date _____	Calumet Undergrad Curriculum Committee _____ Date _____
Fort Wayne Department Head _____ Date _____	Fort Wayne School Dean _____ Date _____	Fort Wayne Chancellor _____ Date _____
Indianapolis Department Head _____ Date _____	Indianapolis School Dean _____ Date _____	<i>x R. Cipra</i> 11/30/2010 Undergrad Curriculum Committee _____ Date _____
North Central Department Head _____ Date _____	North Central School Dean _____ Date _____	Date Approved by Graduate Council _____
West Lafayette Department Head _____ Date _____	West Lafayette College/School Dean _____ Date _____	<i>Thomas L. Payne</i> 1/25/11 Graduate Council Secretary _____ Date _____
Graduate Area Committee Convener _____ Date _____	Graduate Dean _____ Date _____	<i>Phillip E. Tapp</i> 1/24/11 West Lafayette Registrar _____ Date _____

OFFICE OF THE REGISTRAR

PURDUE UNIVERSITY

Print Form

Office of the Registrar
FORM 40G REV. 10/10

REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF A GRADUATE COURSE
(50000-60000 LEVEL)

EFD 13-11

DEPARTMENT School of Aeronautics & Astronautics

EFFECTIVE SESSION Spring 2011

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

- | | |
|---|--|
| <input type="checkbox"/> 1. New course with supporting documents (complete proposal form) | <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 checked="" 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 | <input type="checkbox"/> 12. Transfer from one department to another |

PROPOSED: Subject Abbreviation _____ Course Number _____ Long Title _____ Short Title _____	EXISTING: Subject Abbreviation AAE _____ Course Number 66400 _____	TERMS OFFERED Check All That Apply: <input type="checkbox"/> Fall <input checked="" type="checkbox"/> Spring <input type="checkbox"/> Summer
Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)		CAMPUS(ES) INVOLVED <input type="checkbox"/> Calumet <input type="checkbox"/> N. Central <input type="checkbox"/> Cont Ed <input type="checkbox"/> Tech Statewide <input type="checkbox"/> Ft. Wayne <input checked="" type="checkbox"/> W. Lafayette <input type="checkbox"/> Indianapolis

CREDIT TYPE 1. Fixed Credit: Cr. Hrs. _____ 2. Variable Credit Range: Minimum Cr. Hrs. _____ (Check One) To <input type="checkbox"/> Or <input type="checkbox"/> Maximum Cr. Hrs. _____ 3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/> 4. Thesis Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>	COURSE ATTRIBUTES: Check All That Apply 1. Pass/Not Pass Only <input type="checkbox"/> 2. Satisfactory/Unsatisfactory Only <input type="checkbox"/> 3. Repeatable <input type="checkbox"/> Maximum Repeatable Credit: _____ 4. Credit by Examination <input type="checkbox"/> 5. Special Fees <input type="checkbox"/> 6. Registration Approval Type Department <input type="checkbox"/> Instructor <input type="checkbox"/> 7. Variable Title <input type="checkbox"/> 8. Honors <input type="checkbox"/> 9. Full Time Privilege <input type="checkbox"/> 10. Off Campus Experience <input type="checkbox"/>
---	--

Schedule Type	Minutes Per Mta	Meetings Per Week	Weeks Offered	% of Credit Allocated	Cross-Listed Courses _____ _____ _____ _____
Lecture	_____	_____	_____	_____	
Recitation	_____	_____	_____	_____	
Presentation	_____	_____	_____	_____	
Laboratory	_____	_____	_____	_____	
Lab Prep	_____	_____	_____	_____	
Studio	_____	_____	_____	_____	
Distance	_____	_____	_____	_____	
Clinic	_____	_____	_____	_____	
Experiential	_____	_____	_____	_____	
Research	_____	_____	_____	_____	
Ind. Study	_____	_____	_____	_____	
Pract/Observ	_____	_____	_____	_____	

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

Calumet Department Head _____ Date _____	Calumet School Dean _____ Date _____	Calumet Undergrad Curriculum Committee _____ Date _____
Fort Wayne Department Head _____ Date _____	Fort Wayne School Dean _____ Date _____	Fort Wayne Chancellor _____ Date _____
Indianapolis Department Head _____ Date _____	Indianapolis School Dean _____ Date _____	<i>R. Cipra</i> 11/30/2010 Undergrad Curriculum Committee _____ Date _____
North Central Department Head _____ Date _____	North Central School Dean _____ Date _____	Date Approved by Graduate Council _____
<i>[Signature]</i> 11/15/10 West Lafayette Department Head _____ Date _____	<i>Michael Y. Davis</i> 11/29/2010 West Lafayette College/School Dean _____ Date _____	Graduate Council Secretary _____ Date _____
Graduate Area Committee Convener _____ Date _____	Graduate Dean _____ Date _____	West Lafayette Registrar _____ Date _____

OFFICE OF THE REGISTRAR

TO: The Faculty of the College of Engineering
FROM: The Faculty of the School of Aeronautics and Astronautics
RE: Deletion of AAE 66400

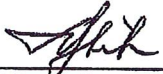
The faculty of the School of Aeronautics and Astronautics has approved the deletion of the following course. This action is now submitted to the Engineering Faculty with a recommendation for approval.

AAE 66400 Estimation and Control of Uncertain Dynamical Systems
Sem. 2, Class 3, Cr. 3.
Prerequisite: AAE 56400, 56700

Continuous and discrete-time linear dynamic systems driven by white noise. Stochastic observability and controllability. Minimum-variance state estimation. The separation theorem of optimal stochastic control. Linear-quadratic-gaussian theory of linear regulatory with noisy and noise-free measurements. Theories of model reduction and reduced order controllers. Minimal and partial realizations with respect to quadratic costs. Selected topics in model error compensation, including singular perturbations, parameter sensitivity reduction, disturbance accommodation. Optimal and sub-optimal selection of measurements and control devices.

Reason:

The course has not been taught for an extended period of time and content is included in currently offered courses. Course has been deleted from the curriculum.



Tom I-P. Shih, Professor and Head
School of Aeronautics & Astronautics

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

ECC Minutes #4
Date 10/19/10
Chairman ECC R. Cipra

