**PURDUE UNIVERSITY**

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

**DPTMENT** School of Aeronautics & Astronautics  
**EFFECTIVE SESSION** Fall 2011

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

- [ ] New course with supporting documents (complete proposal form)
- [ ] Add existing course offered at another campus
- [X] Expiration of a course
- [ ] Change in course number
- [ ] Change in course title
- [ ] Change in course credit/credit type
- [ ] Change in course attributes
- [ ] Change in instructional hours
- [ ] Change in course description
- [ ] Change in course requisites
- [ ] Change in semesters offered
- [ ] Transfer from one department to another

**PROPOSED:**

- **Subject Abbreviation:** AAE  
- **Course Number:** 53800  
- **Long Title:** Advanced Energy Conversion for Aerospace Systems

**EXISTING:**

- **Subject Abbreviation**
- **Course Abbreviation**

**TERMS OFFERED:**

- **Check All That Apply:**
  - [X] Fall
  - [ ] Spring
  - [ ] Summer

**CAMPUS(ES) INVOLVED:**

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

**CREDIT TYPE:**

<table>
<thead>
<tr>
<th>Credit Type</th>
<th>Hours</th>
<th>Pass/No Pass Only</th>
<th>Satisfactory/Unsatisfactory Only</th>
<th>Repeatable</th>
<th>Maximum Repeatable Credit</th>
<th>Credit by Examination</th>
<th>Special Fees</th>
<th>% of Credit Allocated</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Fixed</td>
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<td>2. Variable Credit</td>
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<td>Minimum</td>
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<td>Maximum</td>
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<td></td>
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<tr>
<td>3. Equivalent Credit</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>4. Thesis Credit</td>
<td>Yes</td>
<td>No</td>
<td></td>
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</tr>
</tbody>
</table>

**COURSE ATTRIBUTES:**

- **Check All That Apply:**
  - [ ] Registration Approval Type
  - [ ] Department
  - [ ] Instructor
  - [ ] Variable Title
  - [ ] Honors
  - [ ] Full Time Privilege
  - [ ] Off Campus Experience

**Course Description (Include Requisites/Restrictions):**

**OFFICE OF THE REGISTRAR**

2011 Jan 26 AM 10:05
### PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF A GRADUATE COURSE
(50000-60000 LEVEL)

**DEPARTMENT**  
School of Aeronautics & Astronautics

**EFFECTIVE SESSION**  
Fall 2011

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

- [ ] 1. New course with supporting documents (complete proposal form)
- [X] 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:
- Subject Abbreviation: AAE
- Course Number: 53600
- Long Title
- Short Title

#### EXISTING:
- Subject Abbreviation: AAE
- Course Number: 53600
- Long Title
- Short Title

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

#### CAMPUS(ES) INVOLVED
- Colcemet
- Cont Ed
- Ft. Wayne
- Indianapolis
- N. Central
- Tech Statewide
- W. Lafayette

#### TERMS OFFERED
- Fall
- [X] Spring
- Summer

#### CREDIT TYPE
- 1. Fixed Credit: Cr. Hrs.
- 2. Variable Credit Range:
  - Minimum Cr. Hrs. (Check One)
  - Maximum Cr. Hrs.
- 3. Equivalent Credit: Yes
- 4. Thesis Credit: Yes

#### COURSE ATTRIBUTES:
- 1. Pass/Not Pass Only
- 2. Satisfactory/Unsatisfactory Only
- 3. Repeatable
- 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

#### CREDIT HOURS
- Schedule Type
  - Lecture
  - Recitation
  - Presentation
  - Laboratory
  - Lab Prep
  - Studio
  - Distance
  - Clinic
  - Experiential
  - Research
  - Ind. Study
  - Pract/Obser

#### MEETINGS PER WEEK
- Minutes Per Mtn
- Meetings Per Week
- Weeks Offered
- % of Credit Allocated

#### COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

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**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

**Undergrad Curriculum Committee**  
Date

**Indianapolis Department Head**  
Date

**Indianapolis School Dean**  
Date

**Date Approved by Graduate Council**  
Date

**North Central Department Head**  
Date

**North Central School Dean**  
Date

**Graduate Council Secretary**  
Date

**West Lafayette Department Head**  
Date

**West Lafayette College/School Dean**  
Date

**West Lafayette Registrar**  
Date

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**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 53600

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

AAE 53600 Advanced Energy Conversion for Aerospace Systems
Sem. 1, Class 3, Cr. 3
Prerequisite: AAE 37200 or AAE 43900 or consent of instructor.

Fundamentals of advanced energy conversion processes, with a strong emphasis on thermodynamics, kinetics, and atomic physics, as applied to aerospace systems. Concepts in physical chemistry, including atomic phenomena, a review of thermodynamics, kinetics, and rate processes, electrochemistry, photochemistry, surface processes and catalysis, and colloidal phenomena, energy storage, thermoelectric and thermionic power generation, fuel cells, direct matter to energy conversion, field power generation, and electric fusion concepts.

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. Sith, Professor and Head
School of Aeronautics & Astronautics