### Course Request Form

**Department**: ECE  
**Effective Session**: Fall 2008

**Instructions**: Please check the items below which describe the purpose of this request.
- New course with supporting documents
- Add existing course
- Expiration of a course
- Change in course number
- Change in course title
- Change in course credit/type

**Proposed**
- **Subject Abbreviation**: ECE
- **Course Number**: 653
- **Long Title**: Nanoelectronics
- **Short Title**: Nanoelectronics

**Existing**
- **Subject Abbreviation**: ECE

**Terms Offered**
- Check All That Apply:
  - Summer
  - Spring
  - Fall

**Campus(ES) Involved**
- Calumet
- Indianapolis
- W.Lafayette
- Tech Statewide

**Credit Type**
- 1. Fixed Credit: Cr. Hrs.
- 2. Variable Credit Range:
  - Minimum Cr. Hrs
  - [ ] To
  - Maximum Cr. Hrs
- 3. Equivalent Credit: [ ] Yes [ ] No
- 4. Thesis Credit: [ ] Yes [ ] No

**Course Attributes**
- 1. Pass/Not Pass Only
- 2. Satisfactory/Unsatisfactory Only
- 3. Repeatable
- 4. Credit by Examination
- 5. Designator Required
- 6. Special Fees

**Instructional Type**
- Picture
- Lecture
- Presentation
- Laboratory
- Lab Prep
- Studio
- Distance
- Clinic
- Experiential
- Research
- Ind. Study
- Pract/Observ

**Weeks Offered**
- 1

**% of Credit Allocated**
- [ ] Asyn. [ ] Or Syr

**Delivery Method**
- [ ] Audio
- [ ] Internet
- [ ] Live
- [ ] Text-Based
- [ ] Video

**Office of the Registrar**

[Signatures and dates]

**Office of the Registrar**
TO: The Faculty of the College of Engineering

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

RE: Deletion of ECE 653

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 653  Nanoelectronics**
Sem. 2. Class 3, cr. 3, (Offered in alternate years.)
Prerequisite: ECE 606, PHYS 545 or equivalent

Ultra small devices with dimensions less than the mean free path or the DeBroglie wavelength require new concepts and approaches. These concepts will be discussed along with special phenomena that have been observed in such structures.

**Reason:** The contents of this course are subsumed by other course offerings in the School of Electrical and Computer Engineering.

Mark J.T. Smith
Professor and Head

APPROVED FOR THE FACULTY
OF THE SCHOOLS OF ENGINEERING
BY THE COMMITTEE ON
FACULTY RELATIONS

CFR Minutes  
Date 10-20-06
Chairman CFR Michael K. [Signature]