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

**DEPARTMENT**  
Biomedical Engineering

**DATE SUBMITTED**  
3/26/03

**DATE EFFECTIVE**  
Fall 2004

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

<table>
<thead>
<tr>
<th>Purpose</th>
<th>6. Change in semesters offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Deletion of a course</td>
<td>9. Change in course credit/type</td>
</tr>
<tr>
<td>2. New course with supporting documents</td>
<td>10. Change in course attributes</td>
</tr>
<tr>
<td>3. Add existing course offered at another campus</td>
<td>11. Change in instructional hours</td>
</tr>
<tr>
<td>4. Change in course number at same level</td>
<td>12. Change in prerequisites</td>
</tr>
<tr>
<td>5. Downgrading of course level</td>
<td>13. Change in description of course content</td>
</tr>
<tr>
<td>7. Change in course title</td>
<td>14. Transfer of course from one dept. to another</td>
</tr>
</tbody>
</table>

**EXISTING:**

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>BME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number</td>
<td>595</td>
</tr>
<tr>
<td>Proposed Title</td>
<td>Fund MEMS &amp; Mic Int Sys</td>
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<tr>
<td>Abbreviated Title</td>
<td>Fund MEMS &amp; Mic Int Sys</td>
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</table>

**PROPOSED:**

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>BME</th>
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<tbody>
<tr>
<td>Course Number</td>
<td>581</td>
</tr>
<tr>
<td>Proposed Title</td>
<td>Fund MEMS and Micro-Integrated Systems</td>
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**SEMESTERS OFFERED**

Check All That Apply:  
- [ ] Summer  
- [x] Fall  
- [ ] Ag  
- [ ] Winter  
- [ ] Spring

**CROSS LISTED COURSES**

| ECE | 526 |

**CREDIT TYPE**

| 1. Fixed Credit: Cr. Hrs. 3 |
| 2. Variable Credit Range:  
  - Minimum Cr. Hrs: (Check One) To  
    - [ ] Or  
    - [ ]  
  - Maximum Cr. Hrs.  
  - Equivalent Credit: Yes  
  - Thesis Credit: Yes  

**COURSE ATTRIBUTES**

Check All That Apply:  
- [ ] Pass/Net Pass Only  
- [ ] Repeatable for Credit  
- [ ] Available for Credit by Examination  
- [ ] Designator Required  
- [ ] Special Fees  
- [ ] Approval Required for Enrollment

**CAMPUS(ES) INVOLVED**

- Calumet
- Fort Wayne
- Indianapolis
- North Central
- West Lafayette

**COURSE DESCRIPTION (PREREQUISITES INCLUDED):** (Offered in alternate years.)

Key topics in micro-electro-mechanical systems (MEMS) and biological micro-integrated systems; properties of materials for MEMS; microelectronic process modules for design and fabrication. Students will prepare a project report on design of a biomedical MEMS-based micro-integrated system.

**Professor Bashir.**

**Prerequisite:** senior or graduate standing and consent of instructor.

**APPROVED**  
10/16/03

**OFFICE OF THE REGISTRAR**