Course Change Request

Date Submitted: 11/15/17 2:43 pm

Viewing: **BMEN 627 : Magnetic Resonance Engineering**

Also Known As: **ECEN 763**

Last edit: 12/06/17 1:58 pm

Changes proposed by: miyons

| Catalog Pages referencing this course | BMEN - Biomedical Engineering  
Department of Biomedical Engineering  
Department of Electrical and Computer Engineering  
ECEN - Electrical & Comp Engr |
|--------------------------------------|------------------------------------------------------------------|
| Other Courses referencing this course | As A Banner Equivalent:  
ECEN 763 : Magnetic Resonance Engineering |

Faculty Senate Number

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maria Lyons</td>
<td><a href="mailto:miyons@tamu.edu">miyons@tamu.edu</a></td>
<td>9798452312</td>
</tr>
</tbody>
</table>

Rationale for Course

- The proposed changes are part of a routine curriculum review.

<table>
<thead>
<tr>
<th>Course prefix</th>
<th>BMEN</th>
<th>Course number</th>
<th>627</th>
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</thead>
<tbody>
<tr>
<td>Department</td>
<td>Biomedical Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College/School</td>
<td>College of Engineering</td>
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</tr>
<tr>
<td>Academic Level</td>
<td>Graduate</td>
<td></td>
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</tr>
<tr>
<td>Academic Level (alternate)</td>
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<td></td>
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<tr>
<td>Effective term</td>
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<tr>
<td>Complete Course Title</td>
<td>Magnetic Resonance Engineering</td>
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<tr>
<td>Abbreviated Course Title</td>
<td>MAGNETIC RESONANCE ENGR</td>
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Catalog course description

- Design, construction and application of instrumentation for MR imaging: fundamentals of the architecture of an MR spectrometer and the gradient subsystem used for image localization; emphasis on the radiofrequency sensors and systems used for signal generation and reception.

Prerequisites and Restrictions

- **BMEN major; graduate classification 420**: ECEN 410, or ECEN 411, or approval of instructor, instructor, graduate classification.

Concurrent Enrollment

- No

Should catalog prerequisites / concurrent enrollment be enforced?

- No

Crosslistings

- Yes  
| Crosslisted With | ECEN 763 |

Approval Path

1. 11/15/17 2:46 pm  
Mary McDougall (mpmdougall): Approved for BMEN Department Head

2. 11/28/17 9:18 am  
Scott Miller (scott-l-miller): Approved for ECEN Department Head

3. 12/06/17 1:58 pm  
Sandra Williams (sandra-williams): Approved for Curricular Services Review

4. 12/13/17 9:38 am  
Jennifer Veracruz (jveracruz): Approved for EN Committee Preparer GR

5. 12/18/17 3:57 pm  
Prasad Enjeti (enjeti): Approved for EN Committee Chair GR

6. 12/19/17 11:18 am  
Tim Jacobs (tjJacobs): Approved for EN College Dean GR

7. 01/02/18 4:34 pm  
LaRhesa Johnson (ljohnson): Approved for GC Preparer

8. 01/20/18 9:36 pm  
LaRhesa Johnson (ljohnson): Approved for GC Chair

https://nextcatalog.tamu.edu/courseleaf/approve/
Semester: 3  
Credit Hour(s): Contact Hour(s) (per week):
Lecture: 2  
Lab: 3  
Other: 0  
Total: 5

Repeatable for credit? No
Three-peat? No
CIP/Fund Code: 1405010006
Default Grade Mode: Letter Grade(G)
Alternate Grade Modes: Satisfactory/Unsatisfactory
Method of instruction: Lecture and Laboratory

Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education)
No

Will this course be taught as a distance education course? No

Is 100% of this course going to be taught in Texas? Yes

Will classroom space be needed for this course? Yes

This will be a required course or an elective course for the following programs:
Required (select program)
Elective (select program)

Course Syllabus

Syllabus: Upload syllabus

Upload syllabus

Letters of support or other documentation: No

Additional information: Removed UG class prerequisites since the content is completed by graduate students at their previous institution. Keeping them limits enrollment.

Reviewer Comments: Sandra Williams (sandra-williams) (12/06/17 1:58 pm): Minor edits made to form.

Reported to state? No