Section 1. Course Title and Description

<table>
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<th>Prefix &amp; No.</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>EE 732</td>
<td>Modeling and Control of Power Electronic Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE 732L</td>
<td>Modeling and Control of Power Electronic Systems Lab</td>
<td>1</td>
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EE 732 Course Description: This course presents approaches for computer-aided analysis and design of power electronic interfaces for renewable energy systems. Techniques for modeling electric generators, power converters and renewable energy sources (i.e. wind and solar), and for designing converters with feedback control are discussed.

EE 732L Course Description: This course presents a laboratory experience for computer-aided analysis and design of power electronic interfaces for renewable energy systems. Techniques for modeling electric generators, power converters and renewable energy sources (i.e. wind and solar), and for designing converters with feedback control are presented.


Section 2. Review of Course

Will this be a common or unique course? (select the appropriate option below)

X This course will be a unique course. (Go to Section 3.)

Section 3. Other Course Information

1. Are there instructional staffing impacts?

X No, schedule management. Explain: EE 732-732L will replace EE 792 Topics – Modeling and Control of Power Electronics Systems & Lab.

2. Existing program in which course will be offered:

M.S. and Ph.D. in Electrical Engineering

3. Proposed instructional method:

EE 732: R – Lecture          EE 732L: L – Laboratory

Provide a brief justification:

Faculty members give oral presentations of facts, principles, context, or interpretation. Instruction takes place in a traditional classroom setting. Courses meeting in a laboratory for the purpose of the application of methods and principles of a discipline.

4. Proposed primary delivery:

001 - Face to Face

5. Term in which change will be effective:

Fall 2015

6. Can this course be repeated for additional credit?

No

7. Will the grade for this course be limited to S/U (pass/fail)?

Yes

X No

8. Will section enrollments be capped? Yes, 20 maximum per section

9. Will this course be equated (i.e. considered the same course for degree completion) with any other unique or common course in the course database?

Yes

X No

10. Is this prefix already approved for your university?

X Yes

No

Section 4. To be completed by Academic Affairs

1. University department code:

SEECS

2. Proposed CIP code:

14.1001

Is this a new CIP code for this university?

Yes

X No