Section 1. Course Title and Description

<table>
<thead>
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<th>Prefix &amp; No.</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EE 733</td>
<td>Advanced Power System Analysis</td>
<td>3</td>
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<tr>
<td>EE 733L</td>
<td>Advanced Power System Analysis Lab</td>
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EE 733 Course Description: This is an advanced course to power systems engineering, designed to provide a student with the knowledge of steady-state analysis in power system operation. Course content includes power flow analysis, state estimation, power system security, automatic generation control, economic dispatch, optimal power flow, unit commitment, fuel scheduling, and production cost modeling.

EE 733L Course Description: This course presents computer (PSS/E) modeling and simulation of power system operation and control, including load-flow, contingency analysis, unit commitment, economic dispatch, optimal power flow, etc. The course is project based and will provide the experience for students to practice in the lab the knowledge obtained in the lecture section.

EE 733-733L Co-requisite: EE 733L-733.

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 733-733L will replace EE 792 Topics – Power System Analysis & Lab.

2. Existing program in which course will be offered: M.S. and Ph.D. in Electrical Engineering

   Provide a brief justification: Faculty members give oral presentations of facts, principles, context, or interpretation. Instruction takes place in a traditional classroom setting.

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