Section 1. Course Title and Description

<table>
<thead>
<tr>
<th>Prefix &amp; No.</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PE 745</td>
<td>Applied Biomechanics</td>
<td>3</td>
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</table>

Course Description:
This course provides students with an advanced application of mechanical principles to human movement. Specific topics will include the force-motion relation, kinetics and kinematics of human motion, and neuromuscular adaptations. Emphasis within these topics will be placed on evaluating and developing rehabilitation and performance techniques using motion capture, force platforms, and electromyography. Current research literature in each of the areas will be discussed and critically reviewed.

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: A new faculty member will be teaching this course. There is workload available.

2. Existing program in which course will be offered: M.S. & PhD in Nutrition, Exercise & Food Sci.

3. Proposed instructional method: Lecture (R)

(may be found at [http://www.sdbor.edu/services/academics/AAC/guidelines.htm](http://www.sdbor.edu/services/academics/AAC/guidelines.htm))

Provide a brief justification:
Provide a brief justification: The course will be a lecture course that provides oral presentations and demonstrations. The demonstrations will, in some instances, students to participate and discuss the context being presented.
4. Proposed primary delivery: 001 Face to Face
   (may be found at http://www.sdbor.edu/services/academics/AAC/guidelines.htm)

5. Term in which change will be effective: Summer 2012

6. Can this course be repeated for additional credit?
   ______ Yes, total credit limit: ________ ________ X No.

7. Will the grade for this course be limited to S/U (pass/fail)? ______ Yes ______ X No

8. Will section enrollments be capped?
   ______ X Yes, maximum per section 20 ________ ______ No

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

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Section 4. To be completed by Academic Affairs

1. University department code: SHNS

2. Proposed CIP code: 310505
   Is this a new CIP code for this university? ______ Yes ______ X No