### 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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<tr>
<td>OM 465</td>
<td>Quality Control Applications</td>
<td>3</td>
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Course Description: Quality control theory applied to problems in production systems, including probability concepts, control chart concepts, sampling inspection plans; mean time between failure; and, application of statistics for quality control in discrete-item manufacturing systems.

### 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: With the revision of the Industrial Management program curriculum and elimination of several lab-based courses, we will be able to offer this course at least once every 3 semesters.

2. Existing program in which course will be offered:
   - Operations (Industrial) Management

3. Proposed instructional method: **R - Lecture**  
   (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: This method of delivery is appropriate for the material be covered and the assignments.

4. Proposed primary delivery: **001 Face to Face**  
   (may be found at [http://www.sdbor.edu/services/academics/AAC/guidelines.htm](http://www.sdbor.edu/services/academics/AAC/guidelines.htm))

5. Term in which change will be effective: **Fall 2012**

6. Can this course be repeated for additional credit?
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 40  _____ 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

   If yes, indicate the course(s) to which it will be equated. ___________________________________________________________________________

10. Is this prefix already approved for your university?  
    ______ Yes  _____ X No

    If no, provide a brief justification:  Request being processed at this time.

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Section 4. To be completed by Academic Affairs

1. University department code: SETM
   ________________________________

2. Proposed CIP code: 150613
   ________________________________

   Is this a new CIP code for this university?  ______ Yes  _____ X No
NEW COURSE REQUEST  
Supporting Justification for On-Campus Review

| Teresa Hall | Teresa Hall | 25 October 2011 |
| Request Originator | Signature | Date |
| Teresa Hall | Teresa Hall | 25 October 2011 |
| Department Chair | Signature | Date |
| Lewis Brown | Lewis Brown | 28 October 2011 |
| School/College Dean | Signature | Date |

1. Provide specific reasons for the proposal of this course and explain how the changes enhance the curriculum. The content and expected outcomes from this course were specifically requested by practitioners in regional manufacturing, service, and consultation firms. Applied quality control is a critical function in successful operations, particularly those seeking or holding ISO 9001 registration.

2. Note whether this course is: X Required _______ Elective

3. In addition to the major/program in which this course is offered, what other majors/programs will be affected by this course? Students in engineering disciplines, related applied management programs, and business management may be interested in taking this course.

4. If this will be a dual listed course, indicate how the distinction between the two levels will be made. Graduate students will be expected to perform an additional project and higher level analysis.

5. Desired section size 40

6. Provide qualifications of faculty who will teach this course. List name(s), rank(s), and degree(s).

Dr. Huitian Lu, Professor, PhD Industrial Engineering, MS Industrial Engineering.
Dr. Carrie Steinlicht, Asst. Professor, PhD Organization & Management, MA Industrial Engr. Tech.

7. Note whether adequate facilities are available and list any special equipment that will be needed for the course. This is primarily a lecture course. No special facilities or equipment needed.

8. Note whether adequate library and media support are available for the course. Adequate

9. Will the new course duplicate courses currently being offered on this campus? _______ Yes X No

   If yes, provide justification.

10. If this course may be offered for variable credit, explain how the amount of credit at each offering is to be determined. NA

11. Add any additional comments that will aid in the evaluation of this request. It is hoped students completing this course will be able to achieve professional certification from the American Society for Quality.