**Section 1. Course Title and Description**

If the course contains a lecture and laboratory component, identify both the lecture and laboratory numbers (xxx and xxxL) and credit hours associated with each. Provide the complete description as it will appear in the system common or unique database, including pre-requisites, co-requisites, and registration restrictions.

<table>
<thead>
<tr>
<th>Prefix &amp; No.</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Micr 233</td>
<td>Introductory Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>Micr 233L</td>
<td>Introductory Microbiology Lab</td>
<td>0</td>
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</tbody>
</table>

Course Description: Introductory microbiology course for biology, microbiology and biotechnology majors. Basics of microbial cell structure and function; viral structure; microbial diversity and evolution; interactions between microbes and plants/animals; biogeochemical cycling; microbial growth; and control of microorganisms. The laboratory will include aseptic technique; use of bright-field microscopes; common staining techniques; cultivation of various microbes; investigations of diversity; metabolic characteristics; microbial growth and control of microbial growth/metabolism.

The lecture and lab are co-requisites.
Pre-requisites: Completion of BIOL151 AND 6 credits college chemistry

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**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.)

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**Section 3. Other Course Information**

1. Are there instructional staffing impacts?

   X No, schedule management. Explain: Future changes in Micr course offerings and scheduling are expected to be adequate to balance workload.

2. Existing program in which course will be offered: B.S. Biology; B.S. Microbiology; B.S. Biotechnology
3. Proposed instructional method: Lecture and Lab
(may be found at http://www.sdbor.edu/services/academics/AAC/guidelines.htm)

Provide a brief justification: Expanded contact hours allows more depth of coverage
needed for students studying biological sciences, allowing for frequent observations of
cultured organisms.

4. Proposed primary delivery: Face-to-face (001)
(may be found at 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?

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?

Yes, maximum per section 24 per lab section 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?

Yes No

Section 4. To be completed by Academic Affairs

1. University department code: SBIOM

2. Proposed CIP code: 260503

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Department/Position</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Susan A. Gibson</td>
<td>Request Originator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volker Brozel</td>
<td>Department Chair</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Don Marshall</td>
<td>School/College Dean</td>
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<td></td>
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<td>Don Marshall</td>
<td>2/21/2012</td>
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</tbody>
</table>

1. Provide specific reasons for the proposal of this course and explain how the changes enhance the curriculum.

This course is needed to provide a more extensive background in microbiology for biology, microbiology, and biotechnology majors. The current course is a mixed majors course with no biology courses required. It is at too basic a level to be effective for students with two or more semesters of biology and two or more semesters of college chemistry. The non-majors course also covers redundant material for our departmental majors.

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? 
   - Biology; Biotechnology

4. If this will be a dual listed course, indicate how the distinction between the two levels will be made. 
   - N/A

5. Desired section size  
   - Lab sections of 24

6. Provide qualifications of faculty who will teach this course. List name(s), rank(s), and degree(s). 
   - Susan A. Gibson; professor; Ph.D. microbiology

7. Note whether adequate facilities are available and list any special equipment that will be needed for the course. 
   - Adequate facilities are available.

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

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

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