



SACRAMENTO  
STATE

# Course Change Proposal Form A



<b>Academic Group (College):</b> NSM	<b>Academic Organization (Department):</b> Biological Sciences	<b>Date:</b> 10/3/08
<b>Type of Course Proposal:</b> New <input checked="" type="checkbox"/> Change ___ Deletion ___	<b>Department Chair:</b> Rose Leigh Vines	<b>Submitted by:</b> Christine Kirvan
<b>Does this course fulfill a requirement for single-subject or multiple subject credential students? Yes ___ No <input checked="" type="checkbox"/></b>	<b>For Catalog Copy: Yes <input checked="" type="checkbox"/> No ___</b> <b>CCE (Extension): Yes ___ No <input checked="" type="checkbox"/></b>	<b>Semester Effective:</b> Fall <input checked="" type="checkbox"/> 2009 ___ Spring

This course replaces experimental course Subject Area (prefix) and Catalog Nbr (course number):

**Change from:**

<b>Subject Area (prefix) &amp; Catalog Nbr (course no.):</b>	<b>Title:</b>	<b>Units:</b>
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**Change to:**

<b>Subject Area (prefix) &amp; Catalog Nbr (course no.):</b> BIO 39	<b>Title: Microbiology for Allied Health Sciences</b>	<b>Units: 4</b>
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**JUSTIFICATION:**

A lower division, non-majors microbiology course is needed for the following reasons:

- A lower division course will allow for the separation of majors and non-majors allowing for a more targeted and specific presentation of materials for both majors, which require an overview of microbiology as a biological discipline and for non-majors, which require health care-related applications of microbiology.

**NEW COURSE DESCRIPTION:** (Not to exceed 80 words, and language should conform to catalog copy. See <http://www.csus.edu/acaf/univmanual/crspsl.htm> - Guidelines for Catalog Course Description)

Introduction to microorganisms, particularly bacteria and viruses, with emphasis on health care-related applications of microbiology using case studies. Laboratory work includes aseptic techniques, methods of cultivating and identifying bacteria, demonstration of microbial properties and will provide practice with basic microbiological skills. Lecture three hours; laboratory three hours. Fee Course. **Prerequisite:** BIO 10 or BIO 20; CHEM 5 or 6A and 6B or equivalent. **Note:** Does not satisfy microbiology requirement for Biological Sciences majors. 4 units.

**Note:** Does not satisfy microbiology requirement for Bio Sci majors

**Prerequisite:** BIO 10 or BIO 20; CHEM 5 or CHEM 6A and 6B or equivalent

**Enforced at Registration:** Yes \_\_\_ No

**Corequisite:** None

**Enforced at Registration:** Yes \_\_\_ No

**CAN (California Articulation Number):**

**Graded:** Letter  \_\_\_ Credit/No Credit \_\_\_

**Instructor Approval Required?** Yes \_\_\_ No

**Course Classification (e.g., lecture, lab, seminar, discussion):**  
Lecture (C-2), Lab (C-16)

**Title for CMS (not more than 30 characters)**  
Microbiology for Allied Health

**Cross Listed?**  
Yes \_\_\_ No

If yes, do they meet together and fulfill the same requirement, and what is the other course.

**How Many Times Can This Course be Taken for Credit?** once \_\_\_

**Can the course be taken for Credit more than once during the same term?** Yes \_\_\_ No

**FOR NEW COURSE PROPOSALS OR SUBSTANTIVE CHANGES ONLY:**

**Description of the Expected Learning Outcomes:** Describe outcomes using the following format: "Students will be able to: 1), 2), etc."  
See the example at <http://www.csus.edu/acaf/example.htm>

**Throughout the course, students will be able to:**

- Define, describe, and evaluate prokaryotic structure, growth, metabolism, and genetics
- Identify and evaluate specific bacterial diseases of humans
- Define, describe, and evaluate viral structure, replication, pathology, and disease
- Describe and identify medically relevant fungi, protozoa, and parasites
- Identify and compare epidemiological significant infections and describe and evaluate specific nosocomial (hospital-acquired) infections
- Describe mechanisms of antibiotic action and mechanisms of parasite resistance to antibiotics
- Describe and evaluate the major components and functions of the immune system
- Apply and evaluate specific applications in immunology: serology, vaccines, blood transfusions, and tissue transplantation
- Evaluate case studies for correlation to direct clinical/medical application

\*\*Attach a list of the required/recommended course readings and activities [Note: it is understood that these are updated and modified as needed by the instructor(s).] This attachment should be forwarded only to your Dean's office, not Academic Affairs.

**Assessment Strategies:** A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above:

**Written exams, quizzes, and an oral presentation will be given and used to assess students' achievement of learning outcomes. The Final Grade is dependent on the performance of three 75 minute lecture exams, two laboratory exams, two laboratory quizzes, a laboratory problem set, a laboratory oral presentation, and one Final exam. The format will be comprised of multiple choice, fill-in, true/false, and short answer essay questions. The lecture will constitute 75% with each exam equally weighted and laboratory will constitute 25% of the course points.**

For whom is this course being developed?

Majors in the Dept \_\_\_ Majors of other Depts X Minors in the Dept \_\_\_ General Education \_\_\_ Other \_\_\_

Is this course required in a degree program (major, minor, graduate degree, certificate)? Yes X No \_\_\_

If yes, identify program(s): Nursing currently requires Bio 139 and will replace this requirement with the requirement for Bio 39

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer facilities, faculty, etc.)? Yes \_\_\_ No \_\_\_

If yes, attach a description of resources needed and verify that resources are available.

These students would have taken Bio 139, therefore the cost of this course can be met by shifting resources, including staff support, from Bio 139 for which fewer numbers of sections will be offered once Bio 39 is offered.

Indicate which department or programs will be affected by the proposed course (if any). Nursing

**The Department Chair's signature below indicates that affected programs have been sent a copy of this proposal form.**

**Approvals:** If proposed change, new course or deletion is approved, sign and date below. If not approved, forward without signing to the next reviewing authority, and attach an explanatory memorandum to the original copy.

**Signatures:**

	Date
Department Chair: <i>Ron Lopez</i>	10/6/08
College Dean or Associate Dean: <i>David Heffernan</i>	10/6/08
CPSP (for school personnel courses ONLY)	
Associate Vice President and Dean for Academic Programs	

Distribution: Academic Affairs (original), Department Chair and College Dean. Dean's office to send original after approval to Academic Affairs, at mail zip 6016. An electronic copy must also be sent.