



**SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS**

New Course Request

SDSU	Natural Sciences / Biology & Microbiology
Institution	Division/Department
Dennis D. Hedge	11/13/2018
Institutional Approval Signature	Date

Section 1. Course Title and Description

Prefix & No.	Course Title	Credits
MICR 667	Bacteriology	3

Course Description
Study of prokaryotes with focus on bacteria. The course will address cell morphology and organization, cell division, gene regulation and response to change, signaling, and systematics and evolution of bacteria.

Pre-requisites or Co-requisites

Prefix & No.	Course Title	Pre-Req/Co-Req?
None		

Registration Restrictions

None

Section 2. Review of Course

- 2.1. Was the course first offered as an experimental course? Yes No
- 2.2. Will this be a unique or common course?
 Unique Course

Prefix & No.	Course Title	Credits
MICR 732	Microbial Genetics	4

Provide explanation of differences between proposed course and existing system catalog courses below:

MICR 732 (offered at USD) focuses on one part of the broader topic of bacteriology – their genetics. While MICR 667 will include genetics of bacteria, this will make up one quarter of the course.

Section 3. Other Course Information

- 3.1. Are there instructional staffing impacts?
 No. Schedule Management, explain below: This course will be offered every other year. No additional FTE are required and teaching workload will be assigned through reassignments. The course was offered in smaller preliminary version as 2-credit Special Topics course MICR 792 Bacteriology Sp 17.
- 3.2. Existing program(s) in which course will be offered:
 Biological Sciences MS and Ph.D. with specialization in Microbiology and also related specializations such as Veterinary Microbiology, Dairy Science, Food Science
- 3.3. Proposed instructional method by university: R - Lecture
- 3.4. Proposed delivery method by university: 001 - Face to Face Term-Based Instruction

- 3.5. Term change will be effective: Spring 2020
- 3.6. Can students repeat the course for additional credit? Yes, total credit limit: No
- 3.7. Will grade for this course be limited to S/U (pass/fail)? Yes No
- 3.8. Will section enrollment be capped? Yes, max per section: 15 No
- 3.9. Will this course equate (i.e., be considered the same course for degree completion) with any other unique or common courses in the common course system database in Colleague and the Course Inventory Report? Yes No
- 3.10. Is this prefix approved for your university? Yes No

Section 4. Department and Course Codes (Completed by University Academic Affairs)

- 4.1. University Department Code: SBIM
- 4.2. Proposed CIP Code: 26.0502
Is this a new CIP code for the university? Yes No

**NEW COURSE REQUEST
 Supporting Justification for On-Campus Review**

Volker S. Brözel	Volker Brözel	9/7/2018
Request Originator	Signature	Date
Volker S. Brözel	Volker Brözel	9/7/2018
Department Chair	Signature	Date
Matt Miller	Matt Miller	9/12/2018
School/College Dean	Signature	Date

- Provide specific reasons for the proposal of this course and explain how the changes enhance the curriculum.
 The number of graduate students in microbiology has grown and students voiced a need for more advanced coursework pertinent to their area of study. This was mirrored by comments during the Institutional Review. The department Graduate Committee has approved the offering of a graduate course in Bacteriology.
- Note whether this course is: Required Elective
- In addition to the major/program in which this course is offered, what other majors/programs will be affected by this course?
 Graduate students in related areas of study such as Veterinary and Biomedical Science or Dairy Science are welcome to take the course.
- If this will be a dual listed course, indicate how the distinction between the two levels will be made.
 N/A
- Desired section size cap at 15
- Provide qualifications of faculty who will teach this course. List name(s), rank(s), and degree(s).
 Volker Brözel, Professor, Ph.D.
 Ruanbao Zhou, Professor, Ph.D.
 Nicholas Butzin, Assistant Professor, Ph.D.

7. Note whether adequate facilities are available and list any special equipment needed for the course.
No special facilities required.
8. Note whether adequate library and media support are available for the course.
The course will rely heavily on papers in the microbiology literature, but SDSU subscribes to a large selection through Springer, Elsevier and Blackwell-Wiley in any way.
9. Will the new course duplicate courses currently being offered on this campus? Yes No
10. If this course may be offered for variable credit, explain how the amount of credit at each offering is to be determined.
N/A