Course Title: Introduction to Microbiology

Submitted By: K. Giermann

Semester Course Prefix and Number: BIOL 1535

Approval Date:

Old Quarter Course Prefix and Number: BIOL 116 & 090

Revision Date: Feb. 2002

Number of Credits: 3
Number of Lecture Credits: 2
Number of Lab Credits: 1
Number of Lab Hours: 2
Number of Studio/Demonstration/Internship Credits:

Course Purpose Code:

0 – Developmental Courses
1 – Non-transferable, General Education
2 – Technical course related to career programs
3 – College course which has the primary goal of applying certain concepts (e.g. vocal ensemble)
4 – Other college course not considered a part of general education (MNTC) e.g. computer science, health, physical education
5 – Course which is intended to fulfill the Minnesota Transfer Curriculum (MNTC) requirements.
9 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

Catalog Description:

This course is an introduction to the basic characteristics of microorganisms and their beneficial and detrimental effects. This study includes an introduction to the cell, viruses, bacteria, fungi, and protozoa. A special emphasis is placed on microorganisms of medical significance. Aseptic techniques are of major concern in the laboratory.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s): None
Reading Prerequisite: None
Composition Prerequisite: None
Mathematics Prerequisite: None

Career Programs and Transfer Majors Accessing this Course:

Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable:

Notes: No more than two goals may be met by any one course. (Curriculum Committee review and the Chief Academic Officer’s approval are required).

0. None
1. Communications
2. Critical Thinking
3. Natural Sciences
4. Mathematical/Logical Reasoning
5. History and the Social and Behavioral Sciences
6. The Humanities and Fine Arts
7. Human Diversity
8. Global Perspectives
9. Ethical and Civic Responsibility
10. People and the Environment
Learning outcomes, including any relevant competencies listed in the Minnesota Transfer Curriculum:

The student will:

- Demonstrate understanding of scientific theories
- Formulate/test hypothesis in lab
- Communicate findings orally and in writing

Student assessment methods:

Lecture and lab tests.

Use of instructional technology (includes software, interactive video and other instructional technologies):

Medical Terminology CD-Rom

Outline of the major course content:

- Intro to cells
- Aseptic technique
- Lab techniques
- Disease causing: Bacteria, viruses, fungi, and protozoa.

Additional special information (special fees, directives on hazardous materials, etc.)

Transfer Information: (Please list colleges/majors that accept this course in transfer.)

Approvals:

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<th>Representative Signatures</th>
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