MESABI RANGE COMMUNITY & TECHNICAL COLLEGE – VIRGINIA/EVELETH

Course Outline

Course Title: **Microbiology** **Submitted By:** **K. Giermann**
Semester Course Prefix and Number: **BIOL 2535** **Approval Date:**
Old Quarter Course Prefix and Number: **BIOL 215** **Revision Date:** **Feb. 2002**

Number of Credits: **4** **Number of Lecture Credits:** **3**
Semester(s) Offered: **Number of Lab Credits:** **1** **Number of Lab Hours:** **2**
Negotiated Class Size: **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
__X__ **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 encompasses a survey of bacteria, fungi, protozoa, viruses and parasites, and how these microorganisms interact with the environment, emphasizing microbe human interactions such as disease and immune response. The course is intended for science majors and allied health field majors.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s):	BIOL 1545 or BIOL 1511 or BIOL 2551 or instructors consent
Reading Prerequisite:	College Level Reading
Composition Prerequisite:	None
Mathematics Prerequisite:	High School Algebra, placement by CPT score or a grade of C or better in MATH 0094 (or previous course MATH 098)

Career Programs and Transfer Majors Accessing this Course:
Nursing and other health fields

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. __X__ 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 and test hypothesis
- Communicate experimental findings
- Evaluate societal issues from a natural science perspective

Student assessment methods:

- Tests - lecture and lab
- Quizzes
- Projects
- Lab reports
- Presentations

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

Outline of the major course content:

Survey of bacteria, fungi, protozoa, viruses, and helminths and how these microorganisms interact with the environment, emphasizing microbe human interactions such as disease and immune response.

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

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

Approvals:

Body	Representative Signatures	Date
Curriculum Committee		
Faculty Association		
Meet and Confer		
Chief Academic Officer		

Distribution: Original – Administrative Office, Library, Learning Center, Records, Student Services, Curriculum Committee Chair