MESABI RANGE COMMUNITY & TECHNICAL COLLEGE – VIRGINIA/EVELETH

Course Outline

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**
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 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. __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/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:

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