MESABI RANGE COMMUNITY & TECHNICAL COLLEGE – VIRGINIA/EVELETH

Course Outline

Course Title: **College Biology I** **Submitted By:** **K. Giermann**
Semester Course Prefix and Number: **BIOL 1551** **Approval Date:**
Old Quarter Course Prefix and Number: **BIOL 111 & 112** **Revision Date:** **Feb. 2002**

Number of Credits: **5** **Number of Lecture Credits:** **4**
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 a study of cell structure, function and metabolism; principles of reproduction and inheritance; and a survey of the kingdoms Monera and Protista, including taxonomy, morphology, physiology, ecology and phylogeny.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s):	None
Reading Prerequisite:	College Level Reading
Composition Prerequisite:	None
Mathematics Prerequisite:	High School Algebra recommended

Career Programs and Transfer Majors Accessing this Course:
Science Majors: Biology/Pre-Med, Veterinarian and Dental, etc.
Health Majors: Chiropractic /R.N./P.T./O.T.

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 hypotheses in lab and communicate findings orally and in writing
- Formulate hypotheses from factual information and develop several possible explanations

Student assessment methods:

- Lecture and lab tests
- Quizzes
- Lab Reports
- Weekly assignments

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

CD-Rom study guide

Outline of the major course content:

Cell Biology:
Intro to Biology
Basic Chemistry
Cell structure/function
Cell division
Reproduction
Genetics

Organismal Biology:
Survey of Kingdoms Monera and Protista

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		

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