

# MESABI RANGE COLLEGE

## Course Outline

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**Course Title:** College Biology I  
**Semester Course Prefix and Number:** Bio 1551  
**Old Quarter Course Prefix and Number:** Bio111 and 112

**Submitted By:** Giermann  
**Approval Date:**  
**Revision Date:** March 2016

**Number of Credits:** 5  
**Semester(s) Offered:**  
**Class Size:**  
Negotiated by AASC on:  
(date)

**Number of Lecture Credits:** 4  
**Number of Lab Credits:** 1  
**Number of Lab Hours:** 2  
**Number of Studio/Demonstration/Internship Credits:**

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### Course Purpose Code:

- 0 – Developmental Courses  
 1 – Non-transferable  
 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 MNTC (e.g. computer science, health, physical education)  
 5 – Course which is intended to fulfill the Minnesota Transfer Curriculum (MNTC) requirements or intended for transfer.  
 9 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

### Catalog Description:

This is the first course of a two-semester biology major sequence. This course includes the study of cell structure, function and metabolism; cell division, inheritance, and genetics; and evolution and the diversity of life.

### Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s): None  
Reading Prerequisite: College level reading  
Composition Prerequisite: none  
Mathematics Prerequisite: MATH 0090 or placement

### 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. AASC review and the Chief Academic Officer's approval are required.)

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|--|--|
| 0. <input type="checkbox"/> None   | 6. <input type="checkbox"/> The Humanities and Fine Arts     |
| 1. <input type="checkbox"/> Communications                                 | 7. <input type="checkbox"/> Human Diversity                  |
| 2. <input type="checkbox"/> Critical Thinking                              | 8. <input type="checkbox"/> Global Perspectives              |
| 3. <input checked="" type="checkbox"/> Natural Sciences                    | 9. <input type="checkbox"/> Ethical and Civic Responsibility |
| 4. <input type="checkbox"/> Mathematical/Logical Reasoning                 | 10. <input type="checkbox"/> People and the Environment      |
| 5. <input type="checkbox"/> History and the Social and Behavioral Sciences |  |

**Learning Outcomes:** (including any relevant competencies listed in the Minnesota Transfer Curriculum)

Upon completion of this course, the student will be able to:

- 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 Exercises and Reports
- Weekly assignments

**Use of Instructional Technology:** (includes software, interactive video and other instructional technologies):

Textbook on-line content

**Additional Special Information:** (special fees, directives on hazardous materials, etc.)

May require the purchase of an access code from the textbook publisher and the purchase of a lab kit for home use.

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

Most schools accept this into a biology major as long as the entire sequence is taken.

**Affiliated Mesabi Range College Courses and Programs:**

**Approvals:**

Body	Representative Signatures	Date
Faculty Association		
Academic Affairs Standards Committee		
Chief Academic Officer		

**Distribution:** Original – Instructional Services  
**Copies:** Transfer Specialist, Originating Faculty Member, Records  
**Revised:** December 2012