

Fond du Lac Tribal and Community College
COURSE OUTLINE FORM

Updated 11/25/14

Please return this form to the college vice president of academic affairs and the chairperson of the Academic Affairs and Standards Council (AASC)

1. Prepared by: _____

2. Date submitted: _____

3. Date approved: _____ Date revised 09/15/15

4. Department/discipline: Biology

5. Department(s) endorsement(s): _____
(Signatures of the person(s) providing the endorsement are required.)

6. Course Title: General Biology I
Abbreviated course title (25 characters or less): _____

7. Course Designator: BIOL 8. Course Level: 1101

9. Number of Credits: Lecture 3 Lab 1

10. Control Number (on site) 72/24 Control Number (online) _____

11. Catalog/Course description:

Fundamental concepts of biology, including chemical basis of life, cell structure and function, energy transformations, photosynthesis, cellular respiration, genetics, molecular biology, DNA technology, development, origin of life, and evolution. Lecture and lab. (Meets MnTC goal area 3).

12. Course prerequisite(s) or co-requisite(s): Accuplacer scores/ Other courses

Prerequisite(s):

Co-requisite:

13. **Course Materials** (Recommended course materials and resources. List all that apply, e.g. textbooks, workbooks, study guides, lab manuals, videos, guest lecturers).

Campbell, N.A., J.B. Reece, and L.G. Mitchell. 1999. Biology. Benjamin/ Cummings, 5th Ed. New York, NY. 1175 pp.

Lab materials provided

14. **Course Content** (Provide an outline of major topics covered in course)

Lecture topics:

- Chemical basis of life
- Cell structure and function
- Cellular metabolism
- Photosynthesis
- Aerobic Respiration
- Cell division
- Genetics

Human organ systems:

- Nervous, endocrine
- Circulation
- Respiration
- Digestion
- Excretion
- Skeletal, Muscle
- Immunity
- Reproduction and development

Lab topics to closely follow lecture material

15. Learning Goals, Outcomes, and Assessment

At FDLTCC we have 4 Competencies Across the Curriculum (CAC) areas. They are as follows:

- A. Information Literacy (the ability to use print and/or non-print tools effectively for the discovery, acquisition, and evaluation of information)
- B. Ability to Communicate (the ability to listen, read, comprehend, and/or deliver information in a variety of formats.)
- C. Problem Solving (the ability to conceptualize, apply, analyze, synthesize, and/or evaluate information to formulate and solve problems.)
- D. Culture (knowledge of Anishinaabe traditions and culture, knowledge of one's own traditions and culture, knowledge of others' traditions and cultures, culture of work, culture of academic disciplines and/or respect for global diversity.)

Course Learning Outcomes will fulfill the identified competencies.

Course Learning Outcomes.

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

- 1. Describe the chemical basis of life. (C)
- 2. Describe the structure and function of cells. (C)
- 3. Describe the structure and function of cell membranes. (C)
- 4. Discuss the processes of meiosis and mitosis. (C)
- 5. Describe the structure and function of DNA. (C)
- 6. Discuss animal form and function. (C)
- 7. Collect and analyze data. (B, C)

16. **Minnesota Transfer Curriculum (MnTC):** If this course fulfills an MnTC goal area, state the goal area and list the goals and outcomes below:

See www.mntransfer.org

Goal Area(s): 3

Natural Sciences