

**Fond du Lac Tribal and Community College
COURSE OUTLINE FORM**

Updated 9/23/14

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: 10/30/13 Date revised 10/14/14

4. Department/discipline: Biology

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

6. Course Title: Concepts in Cell Biology
Abbreviated course title (25 characters or less): _____

7. Course Designator: BIOL 8. Course Level: 1001 9. 2XXX

10. Number of Credits: Lecture 1 Lab _____

11. Control Number (on site) 30 Control Number (online) _____

12. Catalog/Course description:

An introduction to the field of cell biology with a focus on the basic unit of life, the cell - its function, chemistry, metabolism, and structure. Must be passed with a grade of "C" or better to qualify as a prerequisite for Anatomy and Physiology I.

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

14. **Course Materials** (Recommended course materials and resources. List all that apply, e.g. textbooks, workbooks, study guides, lab manuals, videos, guest lecturers).
Principles of Anatomy and Physiology, 13th Ed. Tortora and Derrickson

15. **Course Content** (Provide an outline of major topics covered in course)
Chemical level of organization in human cells
Cellular level of organization in human cells
Genetics

16. **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. Explain basic chemistry as it relates to the human cell, including properties of matter, acids and bases, bonds, and organic compounds. (B, C)
2. Explain the structure and function of human cells. (B, C)
3. Explain the cell genetics processes resulting in protein synthesis. (B, C)
4. Explain cell division processes of mitosis and meiosis. (B, C)

17. **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): _____

Goal and Outcomes: