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: 2/25/2016
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): 0
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):
    Prerequisite(s): None
    Co-requisite: None
13. Course Materials (Recommended course materials and resources. List all that apply, e.g. textbooks, workbooks, study guides, lab manuals, videos, guest lecturers).

2. Lab materials provided

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

Lecture topics:
1. Chemical basis of life
2. Cell structure and function
3. Cellular metabolism
4. Photosynthesis
5. Aerobic Respiration
   a. Cell division
   b. Genetics
   c. Human organ systems:
      i. Nervous, endocrine
      ii. Circulation
      iii. Respiration
      iv. Digestion
      v. Excretion
      vi. Skeletal, Muscle
      vii. Immunity
      viii. Reproduction and development
6. 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, students 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](http://www.mntransfer.org)

**Goal Area(s):** 3

**Goal and Outcomes:**
- Goal: Natural Sciences
- Outcome:
Complete the following only if you are proposing a new course:

1. Planned pattern of offering:
2. Rationale for course: If this course is an ADDITION or replacement to current offerings, add a detailed explanation of the necessity for the change.
3. Does this course overlap with any course(s) offered at FDLTCC? If so, justify such duplication or indicate other adjustments to be made. Obtain signatures from affected departments.
4. What is the apparent or expressed student need for this course?
5. If this course includes a Native American or specifically Anishinaabe component list campus resource person/s—i.e., campus cultural/spiritual resource person/s and, if necessary, elder/s—consulted and include specific comments and written responses as appropriate.
6. Are there any additional licensing/certification requirements involved?
   a. Provide a copy of the required licensing/certification standards to the AASC chair and to the vice president of academic affairs.
   b. Attach the required documentation to show course meets required licensing/certification standards.
7. What types of tutoring will be made available through the CAA to students taking this course?
8. How will the course be evaluated?
9. Special resources—e.g. faculty, space, equipment, library, etc
10. Special course fees:
11. Relationship of course to the college mission statement and goals.
12. Relationship of course to the department’s mission statement and goals.
13. Relationship of course to colleges/university offerings (include tribal colleges).

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<tr>
<th>College or University</th>
<th>Course Number &amp; Title</th>
<th>Credits Awarded</th>
<th>General Education</th>
<th>Program</th>
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