1. Prepared by: ____________________________________________________
2. Date submitted: ________________________________________________
3. Date approved: _______ Date revised: 10/14/2014
4. Department/discipline: Biology
5. Department(s) endorsement(s): ______________________________________
(Signatures of the person(s) providing the endorsement are required.)
6. Course Title: Aspects of Biology
   Abbreviated course title (25 characters or less):
7. Course Designator: BIOL
8. Course Level: 1010
9. Number of Credits: Lecture: 3__ Lab: 1
10. Control Number (on site): 72/24____
    Control Number (online): 0
11. Catalog/Course description:

   This course covers basic biology as it pertains to contemporary issues. Biology
   coverage includes cell biology, genetics, evolution and ecology. In addition to
   helping students understand biology, students will learn to more critically
   evaluate science that is presented in the media. Humans are discussed as a model
   organism. (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)

1. Evolution
2. Diversity of Life—biological systematics
3. Biological Diversity
4. Developmental Biology
5. Human Anatomy and Physiology
6. DNA/RNA
7. Biochemical Pathways
8. Ecological Concepts
9. 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 characteristics of living things. (B)
2. Describe the role of DNA, RNA, and protein in biological systems. (B,C)
3. Summarize the different metabolic biochemical reactions that are used by living things. (B,C)
4. Discuss major taxonomic relationships between organisms. (B)
5. Summarize human organ systems and their role in the maintenance of homeostasis. (B,C)
6. Demonstrate basic laboratory techniques relevant to the study of biology. (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: 1. Demonstrate understanding of scientific theories:
   Students will be able to explain and present examples of the importance of the scientific method in biological studies including the review of popular scientific literature.
   2. Formulate and test hypotheses by performing laboratory, simulation, or field experiments in at least two of the natural science disciplines: Students will demonstrate an understanding of the scientific research process.
   3. Communicate their experimental findings, analyses, and interpretations both orally and in writing: Students will communicate effectively in writing, speech, and visual presentations within a variety of contexts.
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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