

**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 10/14/14, 12/9/14

4. Department/discipline: Biology

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

6. Course Title: Pathophysiology  
Abbreviated course title (25 characters or less): \_\_\_\_\_

7. Course Designator: BIOL 8. Course Level: 2015

9. Number of Credits: Lecture 3 Lab \_\_\_\_\_

10. Control Number (on site) 72 Control Number (online) \_\_\_\_\_

11. Catalog/Course description:

Pathophysiology involves the study of functional or physiologic changes in the body that result from disease processes. This course focuses on essential concepts of disease processes, etiology, clinical manifestations, significant diagnostic tests, common treatment modalities and potential complications. (Meets MnTC goal area 3) (Prerequisite: BIOL 2021 or consent of instructor).

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

Prerequisite(s): BIOL 2021 Human Anatomy & Physiology II or consent of instructor  
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).

Course materials including a textbook will be selected by faculty based on relevance to the study of pathophysiology and course objectives.

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

- Introduction to Pathophysiology
- Inflammation and Healing
- Immunity and Abnormal Responses
- Infection
- Neoplasms (Tumors and cancer)
- Fluid, Electrolyte, and Acid-Base Imbalances
- Blood and Lymphatic Disorders
- Cardiovascular Disorders

- Respiratory Disorders
- Digestive System Disorders
- Urinary System Disorders
- Neurologic Disorders
- Disorders of the Eye and Ear
- Endocrine Disorders
- Musculoskeletal Disorders
- Skin Disorders
- Reproductive System Disorders

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. Discuss the role of inflammation in homeostatic imbalances. (B, C)
2. Describe how the immune system contributes to the pathophysiology of certain diseases/disorders. (B, C)
3. Distinguish between benign and malignant tumors, their characteristics, and terminology. (B, C)
4. Explain how fluids, electrolytes, and acid/base balance are important to disease processes in the human body. (B, C)
5. Evaluate case studies from a variety of body systems to determine the natural compensations and potential decompensations that occur during diseases and disorders. (B, C)
6. Communicate particular aspects of diseases and disorders and the appropriate treatment measures taken to reduce complications. (A, B, C, D)

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 Area 3: Natural Sciences

Students will be able to:

- a. Demonstrate understanding of scientific theories.
- c. communicate their experimental findings, analyses, and interpretations both orally and in writing.
- d. evaluate societal issues from a natural science perspective, ask questions about the evidence presented, and make informed judgements about science-related topics and policies.