

NWIC Syllabus: Anatomy & Physiology (BIOL 242)

revised January 19, 2016

Course Title:	Anatomy & Physiology
Course Number and Section:	BIOL 242
Number of Credits:	6
Quarter being offered:	2016-W
Class Meeting Location, Days and Time:	Class twice weekly + Laboratory weekly DL-1, 4-6 pm, Tuesday, Wednesday, & Thursday
Instructor Information:	
<i>Instructor Name:</i>	<i>William L. Freeman</i>
<i>Office Location:</i>	<i>Center for Health, Bldg 1</i>
<i>Office Hours:</i>	<i>1 hour before each session, & TBD with each student</i>
<i>Telephone/Fax:</i>	<i>(360) 392-4284 / Fax (360) 392-4394</i>
<i>Email:</i>	<i>wfreeman@nwic.edu (and) WilliamLFreeman@att.net</i>
<i>Alternate Telephones/E-mail:</i>	<i>Colleen Berg: (360) 392-4224 / cberg@nwic.edu my home (360) 758-2175 / my cell (360) 739-1459 [TXT]</i>

Course Description:

- Designed for students interested in a career in the broad field of health, or anyone interested in how the human body is organized and works by examining the major physical structures and functions of the human body. Themes throughout are Anatomy & Physiology with the dual perspectives both of conventional science and also of Indigenous knowledge as seen by the students themselves, and how those perspectives inform each other. Problem solving and learning within small groups is a major method of teaching. The Class and Laboratory sessions include discussions of major problems addressed and solved by each anatomy and physiology system, application of one's knowledge to new situations and problems, short case studies, and relevance to oneself, families, Native tribes, and communities.

Course Prerequisites (if any):

- **Both Biology 101 and Chemistry 101 or higher**
- **AND permission of the Instructor**

Text(s)/Readings/Materials:

1. *(both)* Schier, Butler, & Lewis, Hole's Human Anatomy & Physiology, 14th Ed., ISBN 978-0-07-802429-0
 - a. *May be hard copy, but Digital version by CourseSmart & Connect is better*
2. *(and)* Kapit & Elson, The Anatomy Coloring Book, ISBN 978-0-321-83201-6

Course Policies:

- **Extra credit, make-up assignments, and late work permitted, with approval of Instructor.**
- **Only *emergency* cell phone & texts permitted, stepping outside Seminar to not bother people.**
- **Collaborative attention and behavior in the Seminars is expected.**

- **The Instructor feels that texting or e-mailing, doing homework, and other non-course-related activities during class is not collaborative attention and behavior, and does not contribute to help all students understand better.**

COURSE OUTCOMES

NWIC Outcome:

- **Use analytical and critical thinking skills to draw and interpret conclusions from multiple perspectives in the anatomy and physiology of human beings.**

As a result of this course, students will be able to:

- **Identify and define the major structural components of each anatomical systems presented in the course.**
- **Identify and define the major functional components of each physiological system presented in the course.**
- **Describe how those major anatomic and physiologic functional components work and interact.**
- **Make linkages across systems among major anatomic and physiologic functional components within each system presented in the course.**
- **Explain how each system contributes to homeostasis of human beings in their environment, as understood by both conventional science and each student's own personal and Indigenous knowledge.**
- **Apply acquired knowledge of anatomy and physiology to oneself and/or family and/or community, as desired by the student.**
- **Describe the relationships between Native ways of knowing and the conventional science of anatomy and physiology.**

Course Requirements, Assignment and Assessments:

1. **Written responses to weekly assignments will function as weekly exams.**
2. **Participation in Class sessions (generally twice weekly) and Laboratory session (generally once weekly) for 2 hours each, frequently in small group activity.**
3. **Participation in the brief Debriefing discussion at the end of each session, to contribute to improving the learning by all students and teaching by the Instructor.**
4. **Participation in each small group's assessment of learning.**
5. **Written response to final written assignment and the Final Exam.**
6. **Optional addition credit for a special project of interest to the student, with approval of the Instructor**

NOTE: except when indicated by Instructor, collaborative or learning in a small group is a highly effective method of learning, and thus is encouraged by the instructor.

Detailed Weekly Assignments:

- **Determined shortly after each Seminar, for next Seminar and week**

Grading:

- **Participation in the Class and Laboratory: 15%**

- **Quality of questions asked and answers provided in Seminar: 25%**
- **Quality of weekly, Laboratory, and final written assignments: 50%**
- **Case Study for extra credit (with permission of Instructor): 10%**

Outline/Schedule of Topics:

- See first page of the attached document, "Anatomy & Physiology, 2-quarter sequence."

Optional additional sources:

- "Anatomy & Physiology Revealed" (McGraw Hill): <http://www.mhhe.com/sem/apr/>
- "Get Body Smart": <http://www.getbodysmart.com/>
- "Wisc-Online": <https://www.wisc-online.com/learn/general-education/anatomy-and-physiology1>
-

DATE: 2016-01-19