



North Iowa Area Community College Course Outline

Please follow the included instructions when completing this form. Direct questions to Division Chair. After Course Outline is completed, please submit to Division Chair for review, who then submits to Administrative Assistant to the Vice President for Academic Affairs for review by the Curriculum and Academic Affairs Council (CAAC).

Prepared by:	Patrick Galliard
Date Approved by CAAC:	September 9, 2019
Course Title:	Anatomy and Physiology I
Course Number:	BIO-206
Equivalent Prior Course Numbers:	70-250; BIOL-220
Academic Division/Department:	Natural Science

Credits – Semester Hours (s.h.):

Contact Hours As defined by the Iowa Department of Education in consultation with Division Chair/Registrar (see attached instructions).

Lecture:	<input type="text" value="45"/>	1 s.h. = 15 contact hours
Lab:	<input type="text" value="30"/>	1 s.h. = 30 contact hours
Clinical Practice:	<input type="text" value="0"/>	1 s.h. = 45 contact hours
Work Experience:	<input type="text" value="0"/>	1 s.h. = 60, 75, 90, or 105 contact hours
Total:	<input type="text" value="75"/>	

Prerequisite(s):

Must have successfully completed, with a grade of C or higher, one of the following: BIO-102 Introductory Biology; BIO-186 Microbiology; BIO-202 Biology I; HSC-150 Body Structure and Function; high school AP Biology; high school Anatomy and Physiology; or an ACT Composite score of at least 21.

Corequisite(s):

None

Course Description:

A lecture and laboratory-based study of the human body emphasizing the complementary nature of structure and function, molecular and cellular interactions, homeostasis, and metabolic processes. Includes a study of cells, tissues, membranes, skeletal, muscular, and reproductive systems. Students enrolling in Anatomy and Physiology I or II should plan on taking both semesters of the sequence at NIACC. Problems may result for the student who takes one A&P semester at NIACC and the other semester at a different institution.

Required Textbook(s) and Other Required Materials:

Visual Anatomy & Physiology, Martini et al. (3rd ed.), 2018 Pearson; ISBN 0-13-439469-0

Purpose of Course Check one [X] in consultation with Division Chair.

<input checked="" type="checkbox"/>	Arts and Sciences (General Education)
<input type="checkbox"/>	Arts and Sciences

<input type="checkbox"/>	Career and Technical (General Education)
<input type="checkbox"/>	Career and Technical
<input type="checkbox"/>	Developmental

If course is offered only in specific semesters, please explain below:

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Maximum number of weeks for which the course is offered:

16

[Do not edit the following section. Managed by Academic Affairs]

Is this a Core Competency Anchor Course? YES ☐ NO ☐

If "Yes," list Core Competency Student Learning Outcome Numbers being taught and assessed in this course (2.2, 3.1, etc.)

(Example) 2.2 [Press Tab to create new rows for each SLO]

Student Learning Outcomes (SLOs):

Upon successful completion of this course the student will be able to:

1. Define anatomy and physiology.
2. Exemplify homeostasis.
3. Use anatomical terminology related to directions, sections, body cavities, and body cavity membranes.
4. Explain atoms, molecules, and chemical bonding.
5. Classify chemical reactions.
6. Characterize carbohydrates, lipids, proteins, and nucleic acids.
7. Explain cell structure and function.
8. Explain movement of substances across plasma membranes.
9. Characterize epithelial, connective, and muscular tissues.
10. Classify glands and membranes.
11. Describe the structure and function of the integumentary, skeletal, and muscular systems.
12. Characterize the stages of cellular respiration.
13. Explain molecular genetics.
14. Describe cell division.
15. Describe the structure and function of the reproductive systems.