

Course Syllabus **Advanced Anatomy and Physiology**

Course Number 806-179

Credits 4

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Target Population This course is designed for students enrolled in Nursing-ADN and who have completed the first semester requirement of General Anatomy and Physiology (4-credit statewide course) and will complete the 8 credits of required Anatomy and Physiology.

Course Description Advanced Anatomy and Physiology is the second semester in a two-semester sequence in which normal human anatomy and physiology are studied using a body systems approach with emphasis on the interrelationships between form and function at the gross and microscopic levels of organization. Instructional delivery within a classroom and laboratory setting. Experimentation within a science lab will include analysis of cellular metabolism, the individual components of body systems such as the nervous, neuromuscular, cardiovascular, and urinary. Continued examination of homeostatic mechanisms and their relationship to fluid, electrolyte, acid-base balance, and blood. Integration of genetics to human reproduction and development are also included in this course.

Prerequisite(s)

- General Anatomy and Physiology (statewide course 806-177)

Text/Resource(s) **Anatomy and Physiology: The Unity of Form and Function**
5th edition. Kenneth Saladin
Hardcover: 1248 pages
Publisher: McGraw-Hill Science/Engineering/Math; 5 edition (January 5, 2009)
ISBN-10: 0077276205
ISBN-13: 978-0077276201

Anatomy and Physiology
Advanced Anatomy and Physiology Course Notes and Lab Pack
Dr. Bruce Forciea
Downloads of this text will be made available to students

The Big Picture Approach to Learning Anatomy and Physiology

Dr. Bruce Forciea

This will be available as a free download to students enrolled in this course.

Course notes download. Dr. Forciea will specify how to obtain these during first meeting.

Recommended

General Education Outcomes

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- A. Evaluate biological concepts as they relate to the human body at the cellular level.
 - B. Examine anatomy and physiology concepts.
 - C. Examine changes in body functioning resulting from disease processes.

Core Abilities and Indicators

Moraine Park Technical College defines core abilities as transferable skills, knowledge, and/or attitudes essential to an individual's success regardless of occupation or community setting. There are seven core abilities that are emphasized at Moraine Park.

Competencies

1. Identify the processes of cellular metabolism.
2. Analyze how the individual components of the nervous system work as an integrated whole.
3. Correlate neuromuscular physiology to normal body function.
4. Illustrate the role of DNA in controlling cell function and genetics.
5. Correlate the components of the immune system to their functions.
6. Correlate cardiovascular physiology to human health.
7. Analyze urinary anatomy and physiology.
8. Explain the mechanisms maintaining adequate tissue perfusion and oxygenation.
9. Distinguish among the processes of digestion, absorption, and assimilation.
10. Correlate blood components and composition to homeostatic mechanisms.
11. Correlate fluid, electrolyte, and acid-base balance to the homeostatic mechanisms responsible for their control.
12. Integrate genetics, development, and human reproductive physiology.
13. Use appropriate scientific equipment, methods, and safety precautions.

ADA Statement

If you feel you may need an accommodation or special services for this class, please contact your instructor or Craig Finley in Support Services at (920) 924-3192 or TDD (920) 929-2109.

Grading Rationale

- Examinations 4 @ 150 points each for 600 points
- Laboratory reports 10 @ 15 points each for 150 points
- Laboratory experiment/reports 3 @ 50 points each for 150 points
- Cadaver Dissection Reflection Statements 2 @ 50 points each for 100 points

Written Examinations:

There will be four written examinations in this course. Students must achieve a 76% on each of the examinations to achieve the minimum requirements for meeting the competencies assessed and to pass the course. **Scores less than 76% will earn no points.** If students score below a 76% on any one of the written examinations, they will be allowed one retake option. This option is only offered for **one** of the examinations. **If students score below a 76% on 2 exams they will not earn a passing grade.** Students taking a retake examination must score at least a 76% in order to pass the course. **If the retake examination is passed, the original grade is recorded for that examination.**

This means that there are 2 criteria for passing this course:

- 1. You must earn at least 760 points.**
- 2. You must pass the examinations (allowing for 1 retake)**

You must meet both criteria in order to pass the course.

Laboratory Reports:

Students need to complete 8 out of 10 labs in order to meet the minimum requirements for the laboratory portion.

Laboratory Experiments/Reports:

There will be 3 in-depth experiments investigating human physiology in this course. Students will be required to complete a detailed laboratory report for each of these experiments. These labs will be completed in small groups. These reports are worth 50 points each.

Cadaver Dissection Reflection Statements:

Students in Advanced Anatomy and Physiology are required as part of their course work to complete an anatomy review. This is an in-depth exploration and study of the gross anatomical structures of a specific region of the human body. The project will consist of a participation portion consisting of dissecting or observing structures and a written portion consisting of writing detailed descriptions of structures using anatomical terminology.

Grading Scale

A	930 - 1000 points
B	840 - 929 points
C	760 - 839 points
NC	Less than 760 points

Academic Honesty

You are expected to do your own work unless advised that collaboration is acceptable. This means that you may use facts from other sources if you re-write them in your own words. Anytime you quote directly from another source or paraphrase substantially, you must cite the source you used. When you take a test, you are expected to keep your eyes on your own paper and protect your test paper from being copied by a classmate.

Failure to use proper citation procedure is considered plagiarism. Plagiarism will result in a grade of "0" if it is flagrant and/or deliberate. Copying from another person's paper or test is academic dishonesty and will result in a grade of "0" for that assignment. In addition, you will be referred to student services for discipline based on college policy.

ADA Statement

I wish to fully include persons with disabilities in this course. Please let me know if you need any special accommodations in the curriculum, instruction, or assessments of this course to enable you to fully participate. I will maintain the confidentiality of the information you share with me.

Attendance

This is a 16 session course and every session is important. Please see me if you miss a class. You must complete makeup work prior to the next class session. **Absences during exams must be excused prior to the exam. Reasons for excused absences include illness, personal trauma, funerals or other extreme situations. Unexcused absences for exams will result in a zero for that particular exam with no retake option.**

College Policies

If you have questions regarding affirmative action, equal opportunity, harassment, or information about any other college policies may refer to the current college catalog or student handbook available.

Independent Work

Periodically throughout the program you will be asked to participate in independent activities, which may take several different forms, such as independent study, interactive instruction, laboratory exercises, research and internet exploration. These activities are an integral part of the total curriculum, but will have minimal instructor involvement. They provide you with the opportunity to demonstrate your ability to work independently to meet a designated goal as well as to show development in the various core abilities associated with the program.