

Anatomy and Physiology, Health Care Semesters I and II

This is a *proposed* course template that individual institutions of higher education may choose to use, so that their own majors course is automatically accepted at other institutions, state-wide.

Course description

Anatomy and Physiology, Health Care (semesters I and II) is an in-depth, systematic study of the structure and function of the human body. All organ systems are covered. There is a significant hands-on, laboratory component. Each semester, including the laboratory component, is four (4) credits.

Course transferability

"Anatomy and Physiology, Health Care" is a two-semester pair of courses that prepares students for entry into Nursing, Dental Hygiene, and other health care professions. As such, it fulfills a role distinct from "Anatomy and Physiology, Majors" courses. While the two types of A+P coursework share many learning outcomes A+P, Health Care addresses those objectives with significantly more clinical applications, and with different expectations.

Anatomy and Physiology, Health Care must be transferred from a given institution as a pair. This is because it is vital that students learn (for example) all organ systems, and individual institutions do not necessarily cover the same systems in the same semesters. By accepting the two semesters piecemeal, a student might miss out on (for example) the circulatory system. However, when A+P courses are transferred as a pair, all systems are covered.

As a straight-forward way to distinguish the two types of A+P coursework, there are pre-requisite courses for A+P, Majors while there are not pre-requisites for A+P, Health Care. Although specific course objectives in A+P, Health Care may be nominally the same as those in A+P, Majors, they are qualitatively different. In effect, the pre-requisites themselves make the two types of A+P coursework more than 30% different.

There is also a distinction between A+P, Health Care and A+P courses that cover all topics in one semester only. It takes more time to address course objectives with the necessary rigor and depth.

Learning Outcomes

These are the **essential goals** that **must** be covered in the two semesters of Anatomy and Physiology, Health Care; additional material may vary among institutions and instructors.

1. Recognize and describe fundamental scientific principles such as cell structure and function, and basic chemistry.
2. Describe and apply appropriate anatomical terminology and physiological concepts.
3. Recognize, describe, and apply the core principles for analysis of structural organization and physiology of the human body.
4. Identify and explain the anatomy and physiology for components of the Integumentary, Muscular, Skeletal, Nervous, Endocrine, Circulatory, Lymphatic, Immune, Digestive, Urinary, Respiratory, Reproductive systems, and Special Senses.
5. Describe the relationship between anatomical structure and physiological function
6. Interpret and predict healthy responses of the body after disruption of body homeostasis.
7. Discuss basic developmental aspects and evolutionary significance of each system.
8. Describe relevant interactions between different body systems.
9. Interpret the anatomical and physiological foundation(s) for clinical conditions.
10. Examine and explain how the physiological interactions within the systems produce homeostatic balance.
11. Use laboratory procedures to examine and evaluate physiological functions in the human.
12. Design, conduct physiological experiments, collect and interpret data, evaluate significance of findings, and present results.
13. Predict and interpret the body's response to conditions in the normal and pathological state.

Template for Course Inventory

Please fill out the following table and submit attachment(s). Approved courses must be resubmitted every 5 years.

Please attach the following materials:

- Current working syllabus and lab syllabus that contains instructional goals and/or objectives
- Comprehensive final; in the absence of a comprehensive final no more than 5 sample assessments (student exercises, quizzes, exams, or other assessments).

| | | | |
|---|---|-----------------|-------|
| Course # | | | |
| Course Title | | | |
| Beginning Term (when is/was it first offered?) | If more than five years, check box <input type="checkbox"/> | | |
| | If less than five years, enter date: | | |
| Credit Hours (including the entire course, lecture/lab) | Lecture: | | |
| | Lab (leave blank if no lab): | | |
| Co-/Pre-requisite (test scores for placement) | | Test | Score |
| | Pre-req: | | |
| | Co-req: | | |
| Successor Course: | | | |
| Catalog Description | | | |
| All Textbook(s)/Lab Manual | ISBN: | ISBN: | |
| | Title: | Title: | |
| | Publisher: | Publisher: | |
| | Author: | Author: | |
| | Edition: | Edition: | |
| | Copyright Year: | Copyright Year: | |

| Indicate the typical percentage of time spent on each learning outcome/topic | Learning Objective | % Time |
|--|--|--------|
| | 1. Recognize and describe fundamental scientific principles such as cell structure and function, and basic chemistry. | |
| | 2. Describe and apply appropriate anatomical terminology and physiological concepts | |
| | 3. Recognize, describe, and apply the core principles for analysis of structural organization and physiology of the human body. | |
| | 4. Identify and explain the anatomy and physiology for components of the Integumentary, Muscular, Skeletal, Nervous, Endocrine, Circulatory, Lymphatic, Immune, Digestive, Urinary, Respiratory, Reproductive systems, and Special Senses. | |
| | 5. Describe the relationship between anatomical structure and physiological function | |
| | 6. Interpret and predict healthy responses of the body after disruption of body homeostasis. | |
| | 7. Discuss basic developmental aspects and evolutionary significance of each system. | |
| | 8. Describe relevant interactions between different body systems. | |
| | 9. Interpret the anatomical and physiological foundation(s) for clinical conditions. | |
| | 10. Examine and explain how the physiological interactions within the systems produce homeostatic balance. | |
| | 11. Use laboratory procedures to examine and evaluate physiological functions in the human. | |
| | 12. Design, conduct physiological experiments, collect and interpret data, evaluate significance of findings, and present results. | |
| | 13. Predict and interpret the body's response to conditions in the normal and pathological state. | |
| Additional Comments: | | |

Name of individual submitting: _____

Email address: _____

Please contact WVHEPC, Academic Affairs with questions