# Anatomy & Physiology Course No. 03053 Credit: 1.0

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| **Student name:** |  | **Graduation Date:** |  |

Pathways and CIP Codes:Biochemistry Pathway (14.1401); Biomedical (14.0501); Health Science (51.9999)

Course Description: **Technical Level:** Usually taken after a comprehensive initial study of biology, Anatomy and Physiology presents the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals. Special attention should be given to health careers, related technical skills, and technology associated with these professions.

Directions:The following competencies are required for full approval of this course. Check the appropriate number to indicate the level of competency reached for learner evaluation.

**RATING SCALE:**

4. Exemplary Achievement: Student possesses outstanding knowledge, skills or professional attitude.

3. Proficient Achievement:Student demonstrates good knowledge, skills or professional attitude. Requires limited supervision.

2. Limited Achievement:Student demonstrates fragmented knowledge, skills or professional attitude. Requires close supervision.

1. Inadequate Achievement:Student lacks knowledge, skills or professional attitude.

0. No Instruction/Training:Student has not received instruction or training in this area.

## Benchmark 1: state standards

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Meet all state academic standards for Anatomy and Physiology. |  |

## Benchmark 2: Human structure and Function

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 2.1 | Describe the basic structures and functions of cells, tissues, organs, and systems as they relate to homeostasis. |  |
| 2.2 | Compare relationships among cells, tissue, organs, and systems. |  |
| 2.3 | Explain body planes, directional terms, quadrants, and cavities. |  |
| 2.4 | Analyze the interdependence of the body systems as they relate to wellness, disease, disorders, therapies, and care rehabilitation. |  |

## Benchmark 3: Disease and disorders

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 3.1 | Compare selected diseases/disorders including respective classification(s), causes, diagnoses, therapies, and care/rehabilitation to include biotechnological applications. |  |
| 3.2 | Analyze methods to control the spread of pathogenic microorganisms. |  |
| 3.3 | Analyze body system changes in light of diseases, disorders, and wellness. |  |

## Benchmark 4: health care delivery system

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 4.1 | Identify methods to assess vital signs. |  |

## Benchmark 5: career exploration

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 5.1 | Identify a variety of careers that use anatomy and physiology knowledge and how it relates to health careers. |  |

## Benchmark 6: ethical practice

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 6.1 | Explain the importance of confidentiality in health care. |  |

## Benchmark 7: Safety Practices

### Competencies

| **#** | **Description** | **RATING** |
| --- | --- | --- |
| 7.1 | Use personal protective equipment as appropriate to the environment. |  |
| 7.2 | Modify the environment to create safe working conditions. Evaluate and modify the environment to create and maintain safe working conditions. |  |
| 7.3 | Prevent accidents by using proper safety techniques for the prevention of accidents. |  |

## Benchmark 8: Health science related

### Competencies

| **#** | **Description** | **RATING** |
| --- | --- | --- |
| 8.1 | Identify content, skills and technology related to the health science field. |  |
| 8.2 | Apply mathematical computations related to common health industry procedures. |  |
| 8.3 | Apply mathematical principles to conversion equations commonly used in health-related fields. |  |
| 8.4 | Apply mathematical principles involving temperature, weights, and measures commonly used in health-related fields. |  |
| 8.5 | Analyze diagrams, charts, graphs and tables to interpret results commonly found in health related fields. |  |
| 8.6 | Recognize, organize, write and compile technical information and summaries that relate to health science. |  |

I certify that the student has received training in the areas indicated.

Instructor Signature:

For more information, contact:

CTE Pathways Help Desk

(785) 296-4908

[pathwayshelpdesk@ksde.org](mailto:pathwayshelpdesk@ksde.org)



900 S.W. Jackson Street, Suite 102

Topeka, Kansas 66612-1212

[https://www.ksde.org](https://www.ksde.org/)

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