

Anatomy & Physiology

Implementation Guide

Contents

About This Guide1
Description
Facilitator Tool Kit7
Implementation Strategies7
Frequently Asked Questions
Technical Requirements

About This Guide

This guide is a companion to NHA's *Anatomy & Physiology*, intended for those implementing this learning resource. We included information such as how many hours you will need to incorporate the training, numerous tips to make implementation seamless, and detailed information on what content and features are included. The *Anatomy & Physiology* implementation guide is organized so that you can quickly find what you are looking for. We hope this guide will lighten your load as you prepare to give learners the knowledge and skills they need for long-term success in their health care career.

LEGEND

Learner: Student, Employee, or Apprentice | Facilitator: Educator, Instructor, Trainer, or Employer

Description

Anatomy & Physiology is an integrated, interactive online learning resource that works on multiple devices, including mobile. The product is designed to provide content to meet the needs of the *Anatomy & Physiology* course for a variety of allied health programs. Content presented in the product is mapped to select NHA test plans for allied health credentials, including the CBCS, CCMA, CET, CPCT, CPhT, and CPT exams. This guide is provided as a tool to assist facilitators with implementation of the product.

This product contains the following resources:

- Online Learning Modules
- Uses interactivity to increase learner engagement
- Provides content in small sections with frequent practice and feedback to increase confidence
- Encourages application of learned content through an integrated case study
- and activities, practice activities, and enrichment to increase retention
- Facilitator Toolkit

PRODUCT DASHBOARD

The product dashboard can be accessed by going into the NHA certification portal and clicking on "My Study Materials" and selecting the "Access" box. You may also choose "My Courses" and then select the *Anatomy & Physiology* "View Details" box. Once learners open the dashboard, they will see

a listing of all the modules with usage and performance information.

Module activities are not scored, but learners are able to see the answers for each activity with rationale immediately following submission of their answers. To open a module, learners will click on the module they wish to begin, which expands the module menu to choose either "Lessons" or "Quiz." Learners will click on the "Lessons" tab of the module they want to access. When first logging in, a Welcome! pop-up will provide a guided tour on how to navigate the product.

Instructional features within the modules are designed to engage learners and help them navigate content at their own pace. Module features are listed in the following section.

a		0
Anatomy And P	hysiology 2.0	
		Progress Report
Sort by Assignments		Hide completed
Learning Modules		
Module 1 - Organization	n Of The Human Body	DUE Sep 21, 2024 BY 02:59 AM EDT
LAST ACCESSED Sep 09, 2024	SUGGESTED TIME 1 hr 54 mins remaining	
Module 2 - Chemistry, N	Natter, And Life	
NOT ACCESSED	SUGGESTED TIME 3 hrs 2 mins remaining	
Module 3 - Cells And Th	eir Functions	
NOT ACCESSED	SUGGESTED TIME 3 hrs 27 mins remaining	
Module 4 - Tissues, Glar	nds, And Membranes	
NOT ACCESSED	SUGGESTED TIME 3 hrs 19 mins remaining	

CONTENT MENU TAB

The menu tab can be found on the left-hand side of the screen at the top of the page. Click on the icon with three horizontal lines to open (expand) the menu. Its function is to open and close the Content Menu, which includes the following tabs.

- *Content Menu*. This is the content in table of contents format. Click on each link to access the content.
- Glossary. This tab includes definitions for key terms and a pronunciation tool.
- *Video Library.* This contains all the videos within the related module (including Patient Experience Coach and the Walkthrough Demonstrations).
- *Handout Library*. This tab includes handouts such as Competency Checklists, Credits, Legal Disclaimer, and Additional Resources.

Learners can navigate through module materials by clicking on specific sections or topics. Sections will open into subsections (or topics).

SEARCH FEATURE, ANNOTATION TOOLS, SETTINGS AND HELP, AND AUDIO TOOLS

Additional tools are located in the upper right- hand corner of the screen. There is a Search feature,

Annotation Tools, Settings and Help, and Audio Tools.

- Search. Click on the Search icon to search for content.
- *Settings and Help*. Click on the Settings tab to turn on/off in-text citations. The Help tab contains the Interactive Tour, Tools and Concepts, and Technical Specifications.
- Audio Tools. Click on the Audio Tools tab, and learners can listen to the module.
- *Closed Captioning*. Closed Captioning is available on all videos. Click on the CC icon and en to display the captioning.
- *Annotation Tools*. Learners can annotate (highlight), place bookmarks, or write notes using the Annotation Tools feature (see images below).

Cont	ent Menu <
ONTENT MENU GLOSSARY	HANDOUT LIBRARY
retest	100%
verview	0% >
ppics	21% 🗸
Case Study	O96
Studies of the Human Body	50%
Homeostasis	096
Body Directions	10096
Body Cavities	096
The Language of Health Care	096
Case Study Revisited	096
nrichments	0% >
esources	>

INSTRUCTIONAL DESIGN AND MODULE FEATURES

Anatomy & Physiology consists of 25 modules.

- The Body as a Whole: Modules 1 to 4
- Disease and the First Line of Defense: Modules 5 to 6
- Movement and Support: Modules 7 to 8
- Coordination and Control: Modules 9 to 12
- Circulation and Body Defense: Modules 13 to 17
- Energy: Supply and Use: Modules 18 to 22
- Perpetuation of Life: Modules 23 to 25

Each module in the product includes the same components.

A **pretest** to assess background knowledge before completion of a module. Here the learner can gauge prior knowledge of key concepts and determine where focus is needed. This ungraded quiz with immediate sets the stage for learning.

= Pretest		Q	I My Annotations	Settings and Help
			≡∢	Audio Tools
This pretest is intended to set the stage for help you recognize where you'll want to foc		r the most important topic	s in the module, and	d your results should
Q Which of the following two body cav	vities are separated by the diaphragr	n?		
A Cranial and spinal cavities	В	Dorsal and ventral cavit	ties	
C Thoracic and abdominal cavities	D	Abdominal and pelvic c	avities	
Which of the following body system Circulatory system	Submit			
C Integumentary system	D	Digestive system		

An **overview**. Here the learner will find a brief introduction to the body system and module objectives. Practice activities and quizzes are designed to test knowledge of the objectives. Underlined words have definition and audio pronunciation pop-ups.

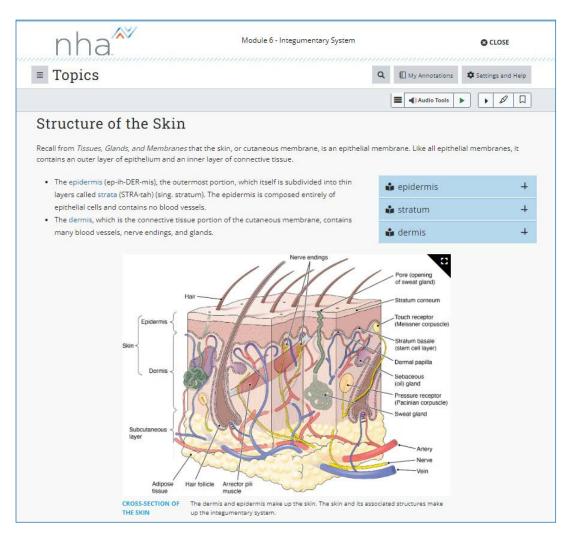
nna.	3 - Cells And Their Functions OCLOSE
= Overview	Q. I My Annotations Settings and
	Audio Tools
Introduction	
The cell is the basic unit of all life. It is the simplest structure that shi all the characteristics of life, including organization, metabolism,	Learning Objectives
and the characteristics of me, including organization, metaolomis, responsiveness, homeostasis, growth, and reproduction. In fact, it is possible for a single cell to live independently of other cells. Example some free-living cells are microscopic organisms such as protozoa a bacteria, some of which produce disease. As we saw in the first mod <i>Organization of the Human Body</i> , cells make up all tissues in a multicellular organism; the human body, for example, contains trillik of cells. All of the body's abilities, including thinking, running, and generating energy from food, reflect activities occurring in individua cells. So, understanding how the body accomplishes these complex actions requires first that we understand the structures and abilities individual cells.	d 1. List three types of microscopes used to study cells. 2. Describe the composition and functions of the plasma membrane. 3. Describe the cytoplasm of the cell, and cite the names an functions of the main organelles. 4. Describe methods by which substances enter and leave

Topics are where the learning path unfolds. These include:

- Opening case study
- Structure and function
- Diseases and disorders
- Treatments
- Closing case study

Topics are designed to present small sections of information followed by practice activities that align to the learning objectives for that topic—i.e., if a topic is focused on structure, learners would be asked to match descriptions with their corresponding structures. Presentation of the information varies from text with audio pronunciations, illustrations, photography, and animations. The variety in presentation of the materials as well as the practice activities helps increase student engagement and retention of information.

Topics are designed to present small sections of information followed by practice activities that align to the learning objectives for that topic—i.e., if a topic is focused on anatomy, students would be asked to label anatomical structures. Presentation of the information varies from text with audio pronunciations, illustrations, photography, and animations. The variety in presentation of the materials as well as the practice activities helps increase student engagement and retention of information.



Practice activities reinforce learning objectives. Like the pretest, practice activities are not scored; they're intended to engage the learner in a low-stress environment. Correct answers are given imme-

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diately and activities are tracked as complete on the student dashboard and facilitator's reports. Questions take a variety of formats—multiple choice, T/F, short answer, fill-in-the-blank, matching, and labeling.

Summative quizzes assess knowledge of module content.

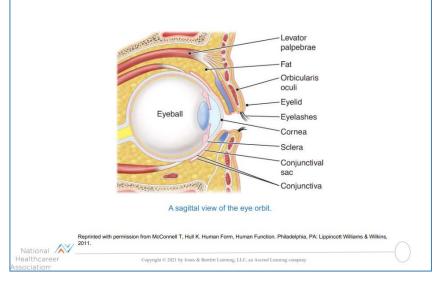
ADDITIONAL ENRICHMENTS

Downloadable enrichment content includes the following.

- *Word Anatomy.* This revisits some basic Medical Terminology.
- *Concept Mastery.* Reviews common or complex concepts and relationships, as well as clinical perspectives and hot topics.
- *Module Outline.* An outline of the module's content for review and study.
- *PowerPoints*. These can be used independently for review. They are also found in the Facilitator's
- Tool Kit for facilitator use.
- *Image Bank*. Photos and figures found in the content are all available in a PPT presentation.
- *Body Visible.* A detailed look at the body system as a whole, with labeling for review and self-check.
- *Animations*. A compilation of all animations within the module

pics	Q 11 My Annotations Settings and Help
	Audio Tools
e Activity	
hich two categories of tissues repair themselves most slip? ter your response and submit to compare to the correct answer.)	Q List four factors that affect skin healing. (Enteryour response and submit to compare to the correct answer.)
our answer here.	Type your answer here.
le le	
Submit	Submit
	Submit
Submit Practice Activity Match the descriptions with the appropriate term. (Drag the option from the last column to match it with the description	
Practice Activity	n in the right column.)
Practice Activity Match the descriptions with the appropriate term. Drag the applien from the left column to match it with the description A spot that is neither raised nor depressed and is smaller th	n in the right column.)
Practice Activity Match the descriptions with the appropriate term. (Drag the option from the last column to match it with the description A spot that is neither raised nor depressed and is smaller the cm	nin the right column.)
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Practice Activity Match the descriptions with the appropriate term. (Drag the option from the left column to match it with the description A spot that is neither raised nor depressed and is smaller the cm A scratch into the skin A crack in the skin	nh the right column) han 1 Macule Excortation Fissure
Practice Activity Match the descriptions with the appropriate term. Drag the option from the last column to match & with the description A spot that is neither raised nor depressed and is smaller th cm A scratch into the skin A crack in the skin A vesicle filled with pus	his the right column.) han 1 Macule Excontation Fissure Puscule





Facilitator Tool Kit

NHA's *Anatomy & Physiology* also includes a Facilitator's Tool Kit (FTK). This tool kit will assist facilitators in deploying the product to meet their specific needs, whether in class or online.

The Tool Kit includes the following.

- Implementation Guide
- Answer keys with rationales for quizzes and practice activities
- Strategies for Effective Teaching: General Concepts
- Strategies for Effective Teaching: Meeting Students' Needs
- Strategies for Effective Teaching: Preparing Your Materials
- Lesson Plans
- PowerPoints for lectures
- Mapping to accreditation standards and NHA test plans
- Crosswalks to current A&P textbooks
- 7 section tests with rationales
- 1 final exam with rationales

Implementation Strategies

Knowledge of basic anatomy and physiology is a critical foundational skill required across most allied health professions. The flexibility of delivery with NHA's *Anatomy & Physiology* allows facilitators the ability to implement the product when and where it makes sense within an individual program.

- Review the overall product, module by module. This includes the enrichment items. It would be best to complete all modules to become familiar with the content. If time does not allow for that, pick several modules that are different from one another (i.e., the muscular system and the digestive system) and complete those.
- 2. Decide how the product will be implemented into your program.
 - *a.* Will *Anatomy & Physiology* be used in one specific course or across multiple courses (as in a wheel structure)?
 - b. Will the course be delivered in person, online, or in a hybrid format?
 - c. What is the time frame for the course? Over how many weeks will the content be delivered?
- 3. Plan for implementation.
 - a. If Anatomy & Physiology will be a standalone resource, match the course outcomes to each module.
 - *b.* If *Anatomy & Physiology* will be implemented across multiple courses, match the content to the appropriate courses or units.
 - *c.* A transition guide from several *Anatomy & Physiology* textbooks is included in the FTK to assist with this process.

PATHWAYS TO IMPLEMENTATION

Option 1: Standalone Course	Option 2: Threaded throughout Multiple Courses
The course will be separate from other courses in the program	The resource will be used in a wheel program in which the modules are threaded throughout the program
Can be used in class, online, or in a hybrid environment	Can be used in class, online, or in a hybrid environment

Recommended Time in the Anatomy & Physiology Resource

See below for the time recommendations that students should spend in the product. It is based on word counts and the amount and types of activities in each module. This is purely an estimate—some learners will need less time, others will need more. As NHA gathers user analytics, we will update this section.

Recommended Time

Estimated total time
End-of-module quizzes
Practice activities
Pre-Test quizzes
Learning content in the entire product 55 hours

Frequently Asked Questions

Questions	Answers
Where are the technical requirements for <i>Anatomy</i> & <i>Physiology</i> located?	Technical requirements for <i>Anatomy & Physiology</i> can be found at <u>https://knowledge.nhanow.com/what-are-the-system-requirements</u> .
What specific requirements does <i>Anatomy & Physiology</i> fulfill?	Anatomy & Physiology fulfills educational materials requirements for the Anatomy & Physiology course taught across multiple allied health programs.
What is the reading level of this product?	NHA does not perform precise reading level analyses on our products. Instead, we are focused on ensuring that all content is appropriate for learning the subject and the knowledge needed for the assessments within the product. The content is validated both through iterative content expert reviews and through psychometric evaluation of testing data.
How long will <i>Anatomy & Physiology</i> take to complete?	Inclusive of content, practice, and assessment, total time in the product is approximately 78 hours.
Where should we plug this offering into our current programs?	The product should be used in the <i>Anatomy & Physiology</i> section of your program, whether as a standalone of integrated course.
Who are ideal candidates for this training?	Students in all allied health programs must have some knowledge of anatomy and physiology.
Can learners receive continuing education credit for this program?	NHA does not currently offer continuing education credit for this product.

Technical Requirements

To learn more about technical requirements for this offering, refer to the following link.

Requirements for the running module content: <u>https://knowledge.nhanow.com/what-are-the-system-requirements</u>

PRODUCT SUPPORT

At NHA, we pride ourselves on timely, effective support to meet your needs. Please contact us at 800-499-9092 if you need assistance with this product.

ISBN AND COPYRIGHT INFORMATION

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