

Purpose of This Guide

This course guide provides:

- A course description
- Ways to get help
- An explanation of the AES course framework
- Estimated curriculum hours for each part of every module in the course template

Health Care Foundations

The **Health Care Foundations** course template provides a comprehensive course in the fundamental concepts needed for a career in health care. This curriculum prepares students for entry-level health care employment and further training in health care occupations. The curriculum accommodates a unique range of classroom scenarios and is adaptable to the needs of each school.

To be successful in today's continually changing health care industry, students must be able to learn and apply an ever-increasing breadth of knowledge. Students need to understand the clinical and interpersonal aspects of care and develop the ability to apply them. They must also recognize that the role of a health care professional requires the highest standards in work ethic and personal responsibility. The HealthCenter21 curriculum can help meet those needs.

Getting Help

An important aspect to your success is getting the proper support when you need it. Applied Educational Systems has over 30 years of experience providing classroom resources to teachers and students. Throughout this time, we have taken great pride in our top-notch customer service. We can help you get started and be successful in several ways:

- **AES Learning Center** – The AES Learning Center is a library of resources to help you save time in your classroom and use AES in the way that best suits you and your students. The library is easy to search and is frequently updated.
- **AES Support** – Use our live chat, email, or telephone support if you have questions.
- **AES Educator Community on Facebook** – The AES Educator Community is a place for AES users to ask questions, discuss teaching strategies, share resources, and support each other. If you want to collaborate with other AES teachers, this is the place for you!
- **Email Newsletter** – We have a newsletter for all AES Customers to help keep you informed about updates.

Course Framework

The AES course framework is organized into a specific learning plan that we refer to as “the four phases.” The four-phase learning plan is designed to maximize student understanding while also saving you time with planning. The curriculum is taught with a combination of lectures, hands-on activities, and computer-based learning.

The four phases of the AES curriculum are listed below.

Explore (teacher-led activities)

- Hook students’ interests
- Prime students for learning new concepts and skills
- Examples include role-play scripts, equipment demonstrations, other activities to introduce topics and initiate classroom discussion

Learn & Practice (student-directed activities)

- Self-paced, interactive eLearning lessons
- Heart of the AES curriculum, where most standards are covered and learning takes place
- Students examine content, may practice skills, and complete assessments
- Teacher resources, including lesson plans, PowerPoints, and quiz and test keys

Reflect (teacher-led activities)

- Review and discuss key ideas from the eLearning lessons
- Help students connect new concepts to existing knowledge and experience
- Short essay prompts mix academic skills related to language arts and writing

Reinforce (teacher-led/student-directed activities)

- Individual and group student projects that enhance understanding of concepts and skills
- Require student application of module concepts
- May take one or several class periods (suggested hours listed in the Curriculum Hours table)
- May include rubrics for assessing projects

Detailed descriptions of Explore, Learn & Practice Units, Reflect, and Reinforce are in the Lesson Plans, which are available in the Teacher Resource area for each module.

Curriculum Hours

The following table is provided for you to easily identify the number of estimated curriculum hours for the four phases of each module.

NOTE:

- A “curriculum hour” is equal to approximately 45-50 minutes.
- Your times may vary depending on the age and experience of the learner.
- Learn & Practice hours include 1 curriculum hour of eLearning per unit and 1 curriculum hour for the Module Test, unless otherwise noted.
- The times listed are for non-customized modules.

Module Description	Explore hours	Learn & Practice hours	Reflect hours	Reinforce Projects hours
<p>Health Career Exploration The Health Career Exploration module has been created to introduce students to the many possibilities of having a career in the health care field.</p>	1	3 - eLearning 1 - Module Test	1	1 – Biotechnology Research and Development 1 – Diagnostic Services 1 – Health Informatics 1 – Support Services 1 – Therapeutic Services 1 – Current Event Report
<p>Healthcare Systems This module provides an overview of the history of healthcare, healthcare delivery systems, trends and technology, and healthcare economics including health insurance plans and government programs.</p>	1	4 - eLearning 1 - Module Test	1	1 – Write a Goal Using Systems Theory 4 – Talk Show 1 – Healthcare Innovations Debate 1 – Comparison Infographic 1 – Payment Methods 1 – Current Event Report
<p>Legal and Ethical Responsibilities This module provides students with the knowledge to make sound decisions when faced with workplace situations involving The Patient’s Bill of Rights, scope of practice, tort law, contract law, confidentiality and privileged communication, and ethics. Students examine scenarios and consider the legal implications and research a current bioethical issue.</p>	1	5 - eLearning 1 - Module Test	1	1 – Advance Directives 3 – Ethics Debate 1 – Code of Ethics 1 – Scope of Practice 1 – Current Event Report
<p>Medical Terminology This module provides an introduction to the language of healthcare including root words, suffixes, prefixes, abbreviations, and body planes, directions, and cavities. Students learn to add prefixes and suffixes, form phrases with abbreviations, and interpret medical terms.</p>	1	4 - eLearning 1 - Module Test	1	1 – Definitions Worksheet & Crossword Puzzle 1 – Current Event Report

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<p>Infection Control</p> <p>This module provides an overview of the importance of protecting oneself and others from disease-causing microorganisms, as students learn about microorganisms, asepsis, hand washing, basic equipment cleaning, autoclaving, personal protective equipment, sterile technique, and transmission-based precautions. Students practice donning and removing protective garments and working in an isolation unit.</p>	1	4 - eLearning 1 - Module Test	1	2 – Hand Washing 3 – Observing Microorganism Growth 3 – Chain of Infection Poster 1 – Current Event Report
<p>Communications</p> <p>This module provides an overview of speaking and writing as part of a healthcare team. Students explore types of communication, barriers, diversity, and how to express sensitivity. They review and evaluate examples of written communication, learn to document patient observations, and discuss the role of communication technology.</p>	1	6 - eLearning 1 - Module Test	1	3 – Communication Skits 3 – Culture/Religion Presentation 1 – Taking Phone Messages 1 – Communication Diversity Skit 1 – Current Event Report
<p>Anatomy & Physiology</p> <p>This module provides an overview of the 12 body systems and how they work together, including structure, functions, diseases, disorders, homeostasis, and immunity. As a bonus, an Advanced Test option is provided along with the traditional Module Test option found in all modules. It provides broader coverage and some more challenging questions.</p>	1	13 - eLearning 1 - Module Test	1	2 – Informative Brochure 1 – Body Function Worksheet 1 – Current Event Report
<p>Diseases and Disorders</p> <p>This module provides an overview of various diseases and disorders, explaining the definition, etiology, pathology, presentation, diagnosis, treatment, and prognosis. This module can be used as an expansion of the Anatomy and Physiology module.</p>	1	5 - eLearning 1 - Module Test	1	2 – Diseases and Disorders Research 1 – Current Event Report
<p>Human Growth & Development</p> <p>This module provides an overview of how people grow, develop, and age throughout the life span in the four areas of development: physical, intellectual, social, and emotional. They also learn about the hierarchy of human needs, genetics, genetic diseases, aging, terminal illness, grief, and mortuary science.</p>	1	5 - eLearning 1 - Module Test	1	2 – Family Health Tree 1 – Hierarchy of Needs 2 – Information Brochure 1 – Current Event Report

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<p>Medical Mathematics</p> <p>This module provides a review of math skills frequently used by health care workers. Students review basic numerical concepts, including whole numbers, decimals, fractions, percentages, estimates, and measurements using the household, metric, and apothecary systems.</p> <p>Students practice using ratios and proportions to convert between measuring systems and calculate medication dosages, read labels and prescriptions, and learn how temperature and time are used in health care. Students record an Intake and Output chart and a TPR graph.</p>	1	6 - eLearning 1 - Module Test	1	1 – Review Worksheet 1 – Current Event Report
<p>Wellness & Nutrition</p> <p>This module provides an overview of the importance of wellness and nutrition as students learn about choosing health care providers, medications, physical examinations, and creating a practical wellness plan.</p>	1	4 - eLearning 1 - Module Test	1	3 – Wellness Campaign 1 – Stress Reduction 3 – Create a Board Game 1 – Public Service Reminder 1 – Current Event Report
<p>Client Status</p> <p>This module provides an overview of the importance of body measurements and vital signs. Students learn about body measurements for adults and infants. They also learn about methods and equipment for taking and recording temperature, pulse, respiration, and blood pressure. A learning game is provided to gain practice in reading analog devices.</p>	1	5 - eLearning 1 - Learning Game 1 - Module Test	1	2 – Examining Vital Signs 1 – Current Event Report
<p>Safety Precautions</p> <p>This module provides an overview of safety techniques and the steps for greeting and identifying patients in a health care facility. Students use the Internet to research safety regulations from OSHA, the FDA, and the EPA and demonstrate how to report safety violations by filing an event report.</p>	1	3 - eLearning 1 - Module Test	1	1 – Create an Evacuation Plan 1 – Safety Guidelines Poster 1 – Current Event Report
<p>CPR and Basic Life Support</p> <p>In this module students will learn all aspects of adult and pediatric BLS rescue, including concepts behind why certain procedures are used. This module is intended to give students a strong foundation in CPR and BLS and help prepare them for BLS certification.</p>	1	7.5 - eLearning 1 - Module Test	1	2 – Emergency Scenarios 1 – Current Event Report

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<p>Emergency Care</p> <p>This module provides an overview of emergency care as students learn to assess emergency situations and react appropriately to bone and joint injuries, shock, open wounds, severe burns, foreign bodies, poisoning, heart attacks, strokes, diabetic reactions, seizures, convulsions, and heat and cold related illnesses.</p>	1	7 - eLearning 1 - Module Test	1	2 – Emergency Scenarios 1 – Current Event Report
<p>Personal Qualities</p> <p>This module provides an overview of the expected appearance and personal characteristics of the successful health care worker as they understand the importance of communication, practice dealing with workplace situations, and evaluate workplace teams.</p>	1	3 - eLearning 1 - Module Test	1	2 – Health Care Problem Solving 2 – Team Invention 1 – Conflict Resolution Scenarios 1 – Health Care Team Meeting 1 – Current Event Report
<p>Bloodborne Pathogens</p> <p>This module provides an exploration of bloodborne pathogens and the effect the risk of infection has on healthcare practice.</p>	1	3 - eLearning 1 - Module Test	1	2 – Bloodborne Health Brochure 1 – Current Event Report
<p>Health Information Technology</p> <p>This module provides an introduction to information technology and its effect on the healthcare industry as they learn terminology, gain exposure to an EHR system, and understand the importance of following HIPAA guidelines.</p>	1	3 - eLearning 1 - Module Test	1	1 – Current Event Report
<p>EHR Simulation</p> <p>This module provides a basic introduction to EHR systems through hands-on experience using an EHR simulation. The simulation is based around common, real-life scenarios students may encounter as medical assistants. The scenarios cover both front-office and clinical tasks.</p>	0	4 - 14 simulation scenarios 1 - Sandbox 0 – No module test	0	0
<p>Behavioral Health</p> <p>This module exists to help students gain knowledge of various behavioral health issues, develop a better understanding of what sufferers might be experiencing, and prepare to handle subsequent issues with patients in the workforce.</p>	2	3 - eLearning 1 - Module Test	1	1 - Local Behavioral Health Resources 1 - Current Event Report
<p>Cultural, Social & Ethnic Diversity</p> <p>This module provides an overview of cultural, social, and ethnic diversity to prepare students for the workforce by introducing them to the importance of respectful and empathetic treatment for all patients. Students learn about the importance of understanding diversity, as well as develop essential skills for the workplace.</p>	1	1 - eLearning 1 - Module Test	1	2 – Culture Guide Research 2 – Demographics Research 1 – Current Event Report

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<p>Domestic Violence Healthcare professionals, at some point, will encounter victims of domestic violence. This module will prepare learners to handle these encounters with accuracy and professionalism. This module is designed to meet requirements of a 2-hour course for domestic violence education.</p>	0	1 - eLearning 1 - Module Test	0	2 – Domestic Violence Research 1 – Current Event Report
<p>Health Care Careers This module provides an exploration of health science professions including the rewards, demands education levels, and types of credentials required for them. They discuss the role of professional organizations and professional development and consider a career as a path or ladder. They research at least one healthcare career and develop a career plan.</p>	1	2 - eLearning 1 - Module Test	1	2 – Career Research & Presentation 1 – Career Profiles 1 – Health Care Careers History 1 – Professional Traits 1 – Current Event Report
<p>Job Seeking Skills This module provides an overview of tasks involved in finding, getting and resigning from a job.</p>	2	3 - eLearning 1 - Module Test	1	2 – Job Interview Practice 1 – Current Event Report