

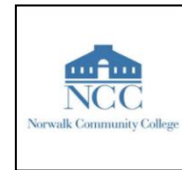
Boosters:

*What are they &
how can I use them?*

Developed by the Connecticut Health & Life Sciences Career Initiative



Connecticut
**Health & Life Sciences
Career Initiative**



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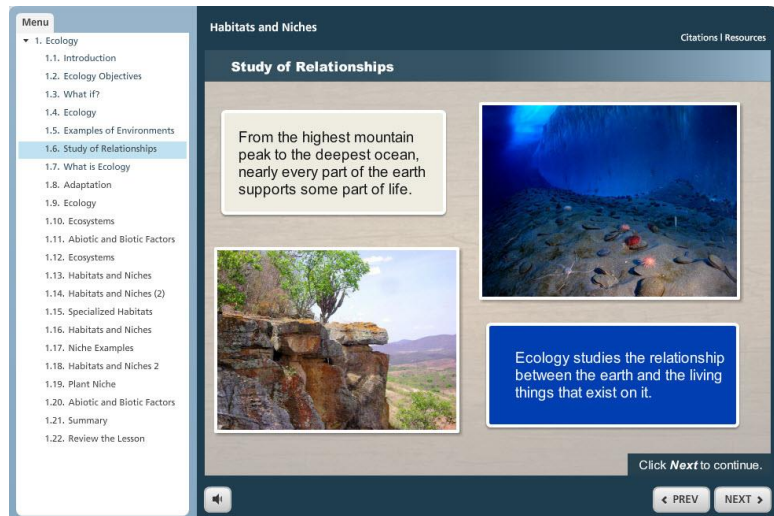
Boosters: What Are They and How Can I Use Them?



What are Boosters?

CT Health and Life Sciences Career Initiative (HL-SCI) partnered with Microburst Learning (MBL) to evaluate newly developed boosters, assist in developing additional boosters and ensuring that boosters met ADA compliance standards and standards for online learning.

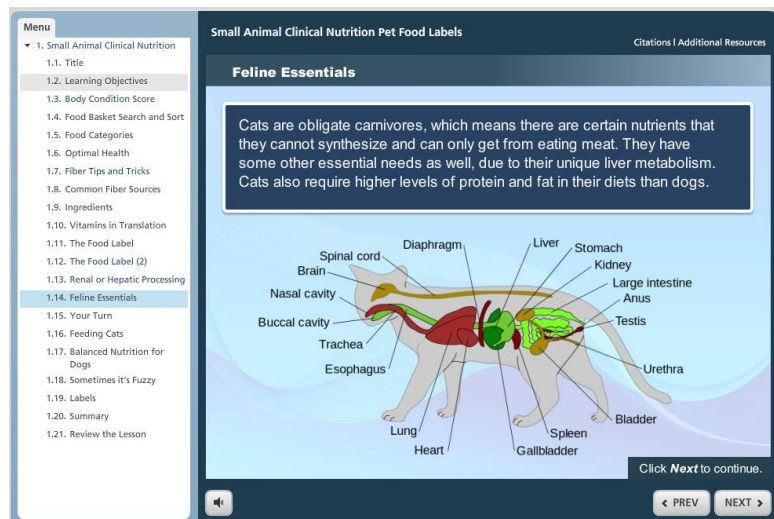
The purpose of the boosters is to introduce and/or reinforce math and science concepts to increase student mastery and course success. The boosters are a vehicle for addressing math or science where students may not have the skills needed for a course or program. A package of boosters could serve as review of those skills to ensure students are prepared for a course. By taking greater advantage of online and technology-enabled learning, students will be able to start and complete modules at times convenient to them and to repeat modules, as necessary, to ensure skill mastery, making it easier and faster to complete college-level coursework.



How Can I Use the Boosters?

Boosters can be used in many ways. Some suggestions are: homework assignments, review before starting a new topic in class, extra-credit assignments, at-home help for a student that is struggling in a particular area, on a projector screen as a full-class activity, at-home activity on a snow day, introduction to a new topic, or anything else you can imagine!

Most boosters contain a pre-test and post-test which allow you to evaluate



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the student's knowledge both before and after exposure to the booster. It is recommended that the post-tests be available to the students so that they can take the test multiple times for practice purposes.

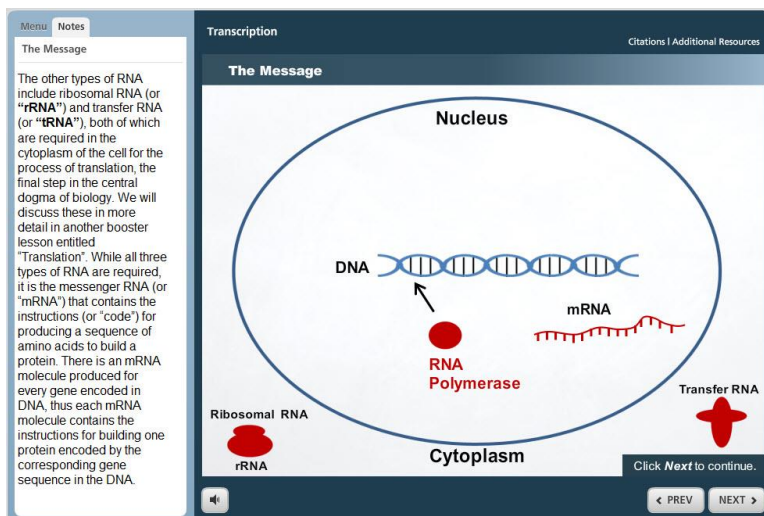
Booster Review Process

MBL developed a custom rubric that analyzed each booster on a number of standards, including ADA Compliance, AIM/CAST Compliance, ADDY Design Standards and compliance standards from the Skills Commons Accessibility Checkpoints Guide. MBL reviewers used this custom rubric to review each booster and made change suggestions where needed.

MBL's design team used these

change suggestions to take the instructors' original material and convert it into a SCORM package that is AIM/CAST and ADA compliant and increased the level of interactivity from the original format. Some examples of interactive elements that were added are drag and drop activities, virtual process interactions, virtual scenarios, and step-by-step process interactions. The aim of the added interactions was to make the boosters more engaging to the students and to give the students a virtual "hands-on" experience that offered them a deeper level of learning.

MBL then sent the completed SCORM packages back to the original instructor or a Subject Matter Expert (SME) designated by the college for review. MBL made any modifications requested by the instructors/SMEs and this review process was repeated until the packages were approved.



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Booster Topics

HL-SCI developed 154 math and science boosters. These boosters are organized under 15 different subject areas. The list below is in alphabetical order by subject area and contains a brief description of each booster.

ALGEBRA

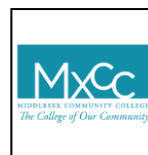
Basic Algebra	In this booster, we discuss basic algebra. Topics covered include: variables, equations, order of operations, substitution, algebraic expressions and laws.
Linear Functions	In this booster, we explore linear functions. We will recognize the various forms of linear functions, find solutions of a linear equation in two variables, use linear functions to solve real world problems and graph linear functions using the table method, intercept method, and the slope & y-intercept method.
Quadratic Functions	This booster provides an introduction to important concepts about quadratic functions.
Solve a System of Linear Equations: Elimination Method	This booster introduces students to systems of linear equations and methods for solving systems of linear equations using elimination.
Solve Quadratic Equations by Factoring	This booster will aide in solving quadratic equations using two forms of factoring depending on the nature of the quadratic equation.

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ALGEBRA CONTINUED	
Solving Exponential Equations	In this booster students will learn to use like bases to solve exponential equations, use logarithms to solve exponential equations and solve exponential equations by graphing.
Solving Logarithmic Equations	In this booster students will learn to use exponential form to solve logarithmic equations, use the one-to-one property of logarithms to solve logarithmic equations and solve logarithmic equations by graphing.
Solving Systems of Linear Equations: Graphing Method	This booster introduces students to systems of linear equations and methods for solving systems of linear equations using graphing.
Solving Systems of Linear Equations: Substitution Method	This booster introduces students to systems of linear equations and methods for solving systems of linear equations using substitution.

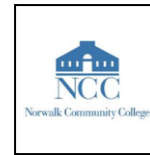
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BASIC MATH/PRE-ALGEBRA

<p>Fractions: Operations and Applications, Part 1</p>	<p>This booster introduces students to the fundamentals of fractions and operations with fractions.</p>
<p>Fractions: Operations and Applications, Part 2</p>	<p>This booster introduces students to the fundamentals of fractions and operations with fractions. The student will add, subtract, multiply, and divide fractions and mixed numbers.</p>
<p>Percent</p>	<p>In this booster, we will discuss percents and percentages. The meaning and expression of percents and percentage. Writing and solving problems with percents.</p>
<p>Scientific Notation</p>	<p>This booster introduces scientific notation and explores how numbers in scientific notation are used to solve scientific problems and explore real world situations.</p>
<p>Understanding Functions</p>	<p>This booster covers Understanding Functions. We will identify the domain and range of a relation, determine whether a relation is a function, and evaluate functions. In addition, we determine whether a graph is a function with the Vertical Line Test, and identify the domain and range of a function from its graph.</p>
<p>Unit Conversion</p>	<p>This booster teaches students how to convert quantities and rates to different units of measurement.</p>

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BIOLOGY

<p>Amino Acids and Peptide Bonds</p>	<p>In this module we will review the structure of an amino acid, look at the difference between the amino acids, and demonstrate how a peptide bond forms between two amino acids to create a peptide polymer.</p>
<p>Carbohydrate Structure and Digestion</p>	<p>This module will review carbohydrate structure and digestion and is designed to help you review the structural differences among monosaccharides, disaccharides and polysaccharides.</p>
<p>Enzymes</p>	<p>This booster module will examine the basic concepts of enzymes and their regulation.</p>
<p>Hydrogen Bonding: Part 1</p>	<p>In this booster we discuss hydrogen bonding. We discuss charge, electrostatics, and chemical bonding as well as electronegativity and polar bonds.</p>
<p>Hydrogen Bonding: Part 2</p>	<p>In this booster we discuss hydrogen bonding. We describe the role hydrogen bonding plays in DNA structure and replication and well as the role hydrogen bonding plays in protein structure.</p>
<p>Mechanisms of Transport Using the Neuron as a Model Cell</p>	<p>This booster module focuses on the study of transport in the context of the neuron allowing for a generalized understanding of the generation and maintenance of the resting membrane potential as well as the generation of an action potential, two processes that are dependent on the transportation of ions across the neuronal cell membrane for their realization.</p>

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BIOLOGY CONTINUED	
Mitosis	This module will review the phases of Mitosis and the major events and transitions involved in each phase.
Natural Selection and Adaptation	In this booster, you learn about Natural Selection and Adaptation. We discuss levels of selection, methods of study, modes of selection and kinds of adaption.
Nucleic Acids	In this booster you will learn about the structure, function, and properties of nucleic acids, and the differences between DNA and RNA.
Organic Evolution	This Booster will introduce the concept of evolution, provide some history of the development of the evolutionary paradigm, and review some of the evidence that biologists universally recognize to support the reality of evolutionary change.
Protein Synthesis and the Central Dogma	This booster will introduce you to the central dogma of molecular biology which describes the transfer of genetic information from DNA to RNA to Protein.

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BIOLOGY CONTINUED	
Serial Dilutions	In this booster, you will learn how to sketch a flow diagram for a serial dilution and determine how to check your calculations to insure you are in fact achieving the desired result.
The Cell Cycle	This booster module provides an overview of the cell cycle of an animal cell. It describes the stages of the cell cycle and the role of proto-oncogenes and tumor-suppressor genes in the regulation of the cell cycle. Furthermore, it provides a lesson on how mutations in tumor-suppressor genes or proto-oncogenes may lead to the development of cancer.
The Laws of Thermodynamics: Part 1	This booster is designed to lead you through the background knowledge necessary for an understanding of thermodynamics, as well as to introduce you to the laws themselves.
The Laws of Thermodynamics: Part 2	This booster is designed to lead you through the background knowledge necessary for an understanding of thermodynamics, as well as to introduce you to the laws themselves.
The Laws of Thermodynamics: Part 3	This booster will introduce you to important background information that is necessary for an understanding of Thermodynamics. In this booster, students will learn how to compare and contrast the terms exothermic and exergonic and endothermic and endergonic. Students will also learn to explain how living systems couple exergonic and endergonic reactions.

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BIOLOGY CONTINUED	
The Special Properties of Water, Part 1	In this booster module, you will explore water's special properties and learn how those properties arise from its molecular structure.
The Special Properties of Water, Part 2	In this booster module, you will explore water's special properties and learn how those properties arise from its molecular structure.

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CHEMISTRY

<p>Density: What is Density and How to Use Density in Calculations</p>	<p>This booster is designed to teach the density concept and how to perform calculations using density.</p>
<p>Intermolecular Forces and the Effect on Physical Properties of Boiling Point and Vapor Pressure</p>	<p>This booster will introduce the concept and application of intermolecular attractive forces.</p>
<p>Nomenclature: Ionic Compounds and Molecular Compounds</p>	<p>In this module, we will be introducing the essential skills needed to name ionic and molecular compounds. Our learning objectives are to understand how ionic and covalent bonds are determined via valence electrons, to identify a cation and an anion within a chemical formula, to identify and name ionic compounds, and to identify and name molecular compounds.</p>
<p>pH Buffers, Part 1</p>	<p>In this booster we will review the basic concepts of acid/base chemistry and stress its relevance to human metabolism.</p>
<p>pH Buffers, Part 2</p>	<p>In this booster we will review the basic concepts of acid/base chemistry and stress its relevance to human metabolism.</p>
<p>Stoichiometry: Analysis of Chemical Equations</p>	<p>This booster teaches students how to balance chemical equations, to understand the use of coefficients within chemical equations, and how to solve limiting reactant problems.</p>

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ECOLOGY

<p>An Investigation of Acid Rain</p>	<p>This booster module is an investigation into acid rain. We will discuss how acid rain forms, determine the effects of acid rain on ecosystems and investigate what is being done about acid rain.</p>
<p>An Investigation of the Water (Hydrologic) Cycle</p>	<p>This booster module is an investigation into the water cycle, its parts, and how it works.</p>
<p>Ecology Case Study - Bats and WNS</p>	<p>We will cover an ecology case study on bats and white noise syndrome.</p>
<p>Ecology: Ecosystems, Habitats and Niches</p>	<p>This booster is designed to provide an overview of some basic aspects of the science of Ecology.</p>
<p>Global Warming</p>	<p>This booster investigates the greenhouse effect and global warming.</p>
<p>Population Dynamic</p>	<p>This booster will help you review the key concepts associated with population growth and regulation. It will review the basic models and walk through a number of practice problems.</p>

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ECOLOGY CONTINUED	
Terrestrial Biomes, Part 1	This booster is designed to provide an overview of what terrestrial biomes are and how they are classified.
Terrestrial Biomes, Part 2	This booster provides an in-depth exploration of the different biome systems found on earth.

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EXCEL

<p>Excel for Science, Part 1</p>	<p>The purpose of this module is to introduce students to using Excel for entering and manipulating scientific data, including from their own lab activities and/or study. Students will learn the basics of Excel through short tutorials, PowerPoints and use of a workbook.</p>
<p>Excel for Science, Part 2</p>	<p>Students will learn about the statistics needed to determine whether or not there is a significant difference between the averages of two groups (means test, average, standard deviation and Student's t test).</p>
<p>Excel: Business Uses</p>	<p>This module covers the most common ways that Excel 2013 is utilized in the business world.</p>
<p>Excel: Formula and Functions</p>	<p>This booster covers basic formulas and functions in Excel 2013.</p>

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EXERCISE SCIENCE

<p>Electrocardiogram (ECG) Subject Preparation</p>	<p>This booster discusses what an Electrocardiogram (ECG) does and teaches students to prep a subject for an ECG assessment.</p>
<p>Parvo Metabolic Cart Calibration and Mouthpiece Assembly</p>	<p>This goal of this session is for students to become proficient with the set-up and calibration of the ParvoMedic, TrueOne metabolic cart.</p>

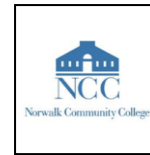
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GENERAL SCIENCE

<p>How to Design a Scientific Study</p>	<p>The purpose of this booster module is to provide the information necessary for students to create and conduct their own study. It covers the steps and logic of the scientific process, important terms and concepts (independent and dependent variable, hypothesis, sample size, etc.) and takes them through the components and steps of designing a scientific study.</p>
<p>How to Make a Scientific Poster</p>	<p>In this booster, we discuss how to make a scientific poster.</p>
<p>Introduction to the Microscope</p>	<p>This booster explains the parts of the microscope and their function, and concepts such as Magnification, Contrast, Working Distance, Resolution, Field of View, and Depth of Field. You will discover how to successfully focus and view a specimen using progressively higher magnification lenses, including the additional steps that using the Oil Immersion Objective Lens requires.</p>
<p>Lab Safety</p>	<p>This booster discusses lab safety. It teaches you about hazards, safety procedures, and ways to protect yourself and prevent exposure.</p>
<p>Outdoor Lab Safety</p>	<p>In this booster, we learn about outdoor lab safety.</p>
<p>Using Oil Immersion in Light Microscopy</p>	<p>In this booster you will learn about Using Oil Immersion in Light Microscopy.</p>

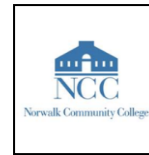
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GENETICS

<p>Agarose Gel Electrophoresis</p>	<p>This booster explores the experimental basis of agarose gel electrophoresis for the separation of DNA fragments. Students begin by learning about the properties of agarose and the benefits of using various % agarose gels. Other factors that influence the migration and resolution of DNA bands are also discussed. This booster is best suited for students that have a working knowledge of the structure of DNA.</p>
<p>Careers in BioTechnology and Genomics</p>	<p>This booster will introduce you to career opportunities in BioTechnology and Genomics.</p>
<p>Genetic Mutations</p>	<p>This booster will explore genetic mutations and their potential to cause diseases. It includes a brief introduction to DNA, genes and chromosomes.</p>
<p>Genetics vs. Genomics</p>	<p>In this booster, we will discuss genetics and genomics, what they are, how they are different, the purpose of each, and the relationship between the two.</p>
<p>Mendelian Genetics</p>	<p>This module will review the basic concepts of Mendelian genetics and monohybrid Punnett squares. Concepts such as dominant and recessive alleles, genotype and phenotype, and homozygous and heterozygous genotypes will be discussed. In addition, the relationship between each of these concepts will be examined. Finally, Punnett squares will be discussed, including how to set up and solve them.</p>
<p>Mendel's Laws of Segregation and Independent Assortment</p>	<p>This module will review Mendel's research, focusing on concepts needed to understand his Law of Segregation and his Law of Independent Assortment. Once these concepts have been reviewed there will be opportunities to apply this understanding to solve genetic problems that predict the probabilities of various outcomes of genetic crosses.</p>

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GENETICS CONTINUED	
Molecular Cloning and Plasmids	This booster will explore the process of molecular cloning and its application in the production of recombinant proteins.
Next Generation Sequencing	In this booster, you will learn about key discoveries leading to DNA sequencing and sequencing technologies.
Non-Mendelian Genetics	This module will review some non-Mendelian genetics concepts including co-dominance, incomplete dominance, and sex-linked traits. The relationship between genotype and phenotype for each concept will be discussed. In addition, solving each type of genetics problems with Punnett Squares will be reviewed.
PCR	In this booster module, you will learn information about the technique commonly employed in biotechnology called Polymerase Chain Reaction (PCR).
PCR and Primer Design	Polymerase Chain Reaction is frequently identified as the most important molecular biology technique. PCR has revolutionized our ability to work with small quantities of DNA, and it has a wide range of applications from forensics to the diagnosis of genetic disorders. In this booster, you will explore the process of PCR.

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GENETICS CONTINUED	
Teaching the Genome	In this booster, we discuss teaching the genome. We touch on why we should learn about our genetic make-up and the effect of genomics on healthcare and medicine.
Transcription	This module will review the molecular process of transcription in a eukaryotic cell which describes the transfer of genetic information from DNA to RNA.
Translation	This module will review the molecular process of translation in a eukaryotic cell which describes the transfer of genetic information from RNA to Protein.
Why is Genomics Important?	In this booster, we will discuss why the study of genomics is important.

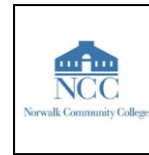
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GRAPHING

Population Growth and Rate of Change	Governments use mathematics to evaluate population growth rates to make informed decisions about the futures of the people. This booster allows the student to calculate and interpret rate of change, construct graphs and predict future population size by evaluating historical growth rates.
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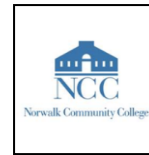
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HUMAN BIOLOGY

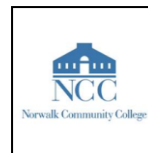
<p>Basics of Neurocircuits</p>	<p>In this booster, we will discuss the basics of Neurocircuits. We will start with the basics of a synapse where we will see how information is moved from one cell to another. Then we will examine how it's the pattern of action potentials that conveys information just like Morse code.</p>
<p>Bone Physiology & Remodeling</p>	<p>This booster will take you through concepts of bone physiology and remodeling, looking into how bones develop their ability to resist various forces placed on them and means that they adapt via the principles of Wolff's Law. And how this principle governs the remodeling and formation of more, or less, robust bone tissue based on the homeostatic disruptions that result from activity.</p>
<p>Brain Anatomy</p>	<p>This booster is to assist you in learning the anatomy of the brain. Students will identify and label various structures of the brain.</p>
<p>Cardiopulmonary Circulation</p>	<p>This booster will provide a lesson on the anatomy of the heart along with the major pathways of blood flow through the heart and the body.</p>
<p>Cardiovascular System, Part 1</p>	<p>This booster gives an overview of the cardiovascular system. We will cover blood, the heart and blood vessels.</p>
<p>Cardiovascular System, Part 2</p>	<p>This booster gives an overview of the cardiovascular system. We will cover the heart and blood vessels.</p>

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HUMAN BIOLOGY CONTINUED	
Embryology of Genitourinary System	This booster provides an overview of the development of the urinary system, comprised of the kidneys, ureter, and bladder. It also covers the male and female genital formation.
Embryology of GI Tract	This booster is meant as a brief overview of the development of the GI tract for the allied healthcare student.
Embryology of the Brain	This booster is designed as a short overview of the brain development for the allied health student.
Embryology of the Heart	This booster is a brief overview of embryology of the heart and is intended for the allied health student needing an introduction to embryology of the heart.
Endocrine Anatomy	This booster covers the anatomy of endocrine system using videos and a presentation on the microscopic anatomy. Also contained in this module are images for labeling.

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HUMAN BIOLOGY CONTINUED	
Functions of the Nervous System	In this booster, we will investigate the functions of the nervous system.
Generation and Maintenance of Membrane Potential	In this booster you will learn about generation and maintenance of membrane potential.
Glycolysis	In this booster, you will learn about glycolysis. We discuss the steps of glycolysis, how glycolysis is regulated and how ATP is generated.
Graded Potentials and Action Potentials	In this booster, we discuss graded potentials and action potentials.
Heart Anatomy	This module contains videos of various heart models and a heart dissection. Also contained in this module are images of the model for labeling.

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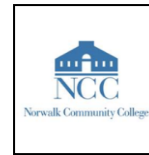
HUMAN BIOLOGY CONTINUED	
Hormones: Mechanisms of Action and Regulation	We will delve into how hormones serve in communicating within and between cells, interact at specific cells (called target tissues) to regulate a number of metabolic processes, maintain homeostasis. We will also discuss what happens if there is too much hormone and not enough stress that would have caused the hormone to be released.
Krebs (Citric Acid) Cycle	This module reviews the Krebs cycle and its central role in metabolism.
Lipid Structure and Digestion	This module will review lipid structure, function, and digestion and is designed to help you review the structural differences among the various lipids.
Metabolic Calculations	In this booster, students will learn the purpose behind metabolic calculations, when to use the appropriate metabolic calculation for the activity performed, complete appropriate conversions and complete appropriate metabolic calculations.
Muscular system: Muscle Physiology	In this module, you will learn how skeletal muscles initiate and produce movement.

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HUMAN BIOLOGY CONTINUED	
Muscular system: Type of Skeletal Muscles	This module will help you review the function and location of the major skeletal muscles.
Muscular system: Muscular Tissue	In this booster module, we will discuss the muscle system and muscle tissue. We will describe the general functions of muscular tissue and distinguish the 3 types of muscular tissue.
Pathogens and Antibacterial Resistance	In this booster, we examine pathogens, antibiotic resistance and why it is a global threat and a major public health concern.
Protein Structure and Digestion	This module will review protein structure, function and digestion and is designed to help you review the structural differences among amino acids, di and tripeptides, and polypeptides/proteins. You will also identify the organs/glands where enzymes or other chemical substances are produced in the digestive system which break down the various levels of protein structure, and again review the process of hydrolysis, the basis for most digestion that occurs within multicellular organisms that possess a digestive system.
Skeletal System: Diseases and Disorders	In this booster, we will learn or review some of the main diseases and disorders associated with the skeletal system.

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HUMAN BIOLOGY CONTINUED	
Skeletal System: Macroscopic anatomy	In this booster you will review the function of the skeletal system, the different types of bones and the macroscopic anatomy of a long bone. In addition, you will be able to practice identifying all the bones that make up the axial and appendicular skeleton.
Skeletal System: Microscopic anatomy	In this module, you will review the microscopic anatomy of a bone, the different types of bone cells, and the process of ossification, or bone formation.
Skeletal, Cardiac, and Smooth Muscle Similarities and Differences	In this booster, we will discuss the similarities and differences between skeletal, cardiac and smooth muscles.
Starling's Law of the Heart and Capillaries	This module will discuss Ernest Starling and his research and then examine the law of the heart and the law of the capillaries. To show the clinical relevance of the material, the module continues with an exploration of disease states involving the laws.
The Sense of Sight	The goal of this booster is to familiarize the student with the structure of the eye, and how that structure helps the eye accomplish sight.

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HUMAN BIOLOGY CONTINUED	
Visualizing Early Embryonic Development using Zebrafish	This booster will introduce users to stages just after the zygote has formed and compare the development of an externally fertilized zebrafish embryo to that of a human being.

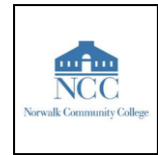
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MATH FOR HEALTH SCIENCE

Long Division with Respiratory Care Applications	This booster module provides an overview of the procedures necessary to perform long division by hand. It begins with long division of two whole numbers. As you progress, you will be introduced to long division where one or both numbers are decimals. Furthermore, it provides some problems involving long division from the field of respiratory care.
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MEASUREMENT

Linear Measurements	In this booster we will describe linear measurement in the Metric System, U.S. Customary System and linear measurement equivalents on both systems.
Rulers, Tape Measures and Thermometers	This booster discusses reading rulers (tape measures) and thermometers and converting degrees Celsius to degrees Fahrenheit and degrees Fahrenheit to degrees Celsius.

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MEDICAL CODING

<p>CABGs: Coronary Artery Bypass Graft coding</p>	<p>In this booster, we will learn to use CPT-4 codes to code Coronary Artery Bypass Grafts.</p>
<p>Evaluation and Management Coding - Critical Care and Other Codes</p>	<p>This booster covers Evaluation and Management coding for Critical Care and other E&M codes.</p>
<p>Evaluation and Management Coding - Levels of Service</p>	<p>In this booster, you will learn to identify the correct CPT-4 codes that report services rendered by various types of providers.</p>

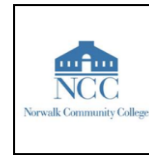
Boosters: What Are They and How Can I Use Them?



MICROBIOLOGY

Bacterial Cell Wall	This module discusses the differences in cell wall composition of Gram positive, Gram negative, Acid fast, and other types of bacteria as well as other organisms. It also explains each step of the Gram stain and Acid fast procedure.
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Boosters: What Are They and How Can I Use Them?



NURSING

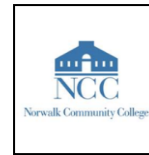
<p>Antepartum Nursing, Part 1</p>	<p>In this booster, you will learn to educate the patient about what to expect throughout pregnancy, discuss lab tests and administer safe care to the uncomplicated antepartum patient.</p>
<p>Antepartum Nursing, Part 2</p>	<p>In this booster, you will learn to educate the patient about what to expect throughout pregnancy, discuss lab tests and administer safe care to the uncomplicated antepartum patient.</p>
<p>Basic Cardiac Rhythm Interpretation</p>	<p>This booster provides practice of some of the most common cardiac dysrhythmias. What you will see in this booster is the rhythms produced by the electricity that is generated within the cardiac cells. A repetitive step by step approach can help you systematically analyze each heart rhythm for interpretation.</p>
<p>Cardiac Conduction System</p>	<p>The following booster provides a brief overview of the electrical conduction system of the heart. This foundation leads to a greater understanding of electrical disturbances that cause a variety of cardiac dysrhythmias.</p>
<p>Medical Math & Dosage Calculations for the Health Care Worker, Part 1</p>	<p>In this module you will learn the basics of Medical Math and how to calculate basic medication dosages.</p>
<p>Medical Math & Dosage Calculations for the Health Care Worker, Part 2</p>	<p>In this module you will learn the basics of Medical Math and how to calculate basic medication dosages. We cover the three methods for calculating simple dosages from physician orders: ratio and proportion, dimensional analysis and simple formulas.</p>

Boosters: What Are They and How Can I Use Them?



NURSING CONTINUED	
Orientation to Healthcare Simulation Activities at Norwalk Community College	This booster is designed to orient students to the healthcare simulation activities available at Norwalk Community College. Students also learn the 3 stages of Simulation: Pre-Brief, Implementation and De-Brief.
QSEN and NOF Competencies	In this booster, we will discuss QSEN and nursing of the future initiatives We cover medication safety and high alert medications.

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NUTRITION

<p>Energy Expenditure Equations</p>	<p>This booster was created for students to review and better prepare to successfully complete the energy expenditure equations taught in Exercise Programming and Design.</p>
<p>Guidelines for a Flawless Performance</p>	<p>In this booster you will learn to develop a successful nutrition presentation, create your own learning objectives and assess and evaluate your presentation.</p>
<p>Nutritional Math: Clinical Math Equations</p>	<p>This booster is designed to help you practice different math equations that are used in nutrition. We start by learning about clinical math equations.</p>
<p>Nutritional Math: Food Service Equations</p>	<p>This booster is designed to help you practice different math equations that are used in nutrition. Here we learn about food service and management math equations.</p>
<p>Optimized Diet Analysis</p>	<p>Here we discuss why it's important to conduct a personal diet analysis and how a person can benefit from this information.</p>
<p>Posters and Bulletin Boards</p>	<p>In this booster, we review Poster and Bulletin Board Presentation Guidelines. We will identify the points in creating an effective poster or bulletin board, develop a clear message about the topic, evaluate what the audience learned (create a measurable objective) and practice the techniques demonstrated to develop a poster or bulletin board.</p>

Boosters: What Are They and How Can I Use Them?



NUTRITION CONTINUED	
<p>Small Animal Clinical Nutrition: Pet Food Labels</p>	<p>In this booster we will review the nutritional needs of dogs and cats, review common ingredients in pet foods, interpret pet food labeling, become familiar with resources for pet food analysis and be able to discuss pet food recommendations with owners.</p>
<p>Supporting Nutrition, Health, and Physical Activity in Early Childhood Education</p>	<p>This booster teaches you how to support nutrition, health, and physical activity in early childhood education.</p>

Boosters: What Are They and How Can I Use Them?



PHYSICAL THERAPY

<p>Documentation for PT Students: Introduction to the Medical Record and Documentation</p>	<p>This booster will assist the physical therapy student in learning to write effective and efficient notes in the medical record.</p>
<p>Documentation for PT Students: Physical Therapy Documentation in Practice</p>	<p>This booster will assist the physical therapy student in learning to write effective and efficient notes in the medical record.</p>
<p>Documentation for PT Students: Physical Therapy Specific Documentation and the SOAP Note Format</p>	<p>This booster teaches students about specific physical therapy notes commonly found in the medical record and the SOAP note.</p>
<p>Evidence-Based Practice For The Allied Health Professional, Part 1</p>	<p>This booster explores Evidence-Based Practice. We will discuss various types of scientific research and relevant terms related to evidence-based practice.</p>
<p>Evidence-Based Practice For The Allied Health Professional, Part 2</p>	<p>In this booster, we list the steps involved in the critical review of a scientific research article. We will also discuss the relationship between critical review of research articles and evidence-based practice for the allied health professional.</p>
<p>Posture and Body Mechanics Training for Allied Health Professionals, Part 1</p>	<p>In this booster, we will discuss the characteristics of common faulty postures and the effects of impaired posture. We also look at common diseases and conditions that may lead to postural impairments.</p>

Boosters: What Are They and How Can I Use Them?



PHYSICAL THERAPY CONTINUED	
Posture and Body Mechanics Training for Allied Health Professionals, Part 2	In this booster, we will discuss the important elements of therapeutic interventions to improve posture in static and dynamic positions, the importance of body mechanics, proper body mechanics during various activities and body mechanics education and intervention within a plan of care.
Therapeutic Exercise for the Shoulder, Part 1	This booster module is designed to teach students therapeutic exercise for the shoulder. The student will learn to apply anatomic & physiologic principles in the provision of therapeutic exercise of the shoulder and shoulder girdle to a variety of patient populations and relate the principles of anatomy and function of the shoulder and shoulder girdle to therapeutic exercise.
Therapeutic Exercise for the Shoulder, Part 2	This booster module is designed to teach students therapeutic exercise for the shoulder. The student will learn to explain the use of therapeutic exercise for common shoulder pathologies, injuries and surgical procedures and describe precautions and contraindications applicable to the provision of therapeutic exercise for the shoulder and shoulder girdle.

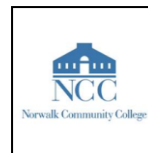
Boosters: What Are They and How Can I Use Them?



PHYSICS

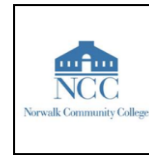
<p>Basic Physics</p>	<p>In this booster, we will discuss Basic Physics. We will practice physics problems as well as discuss major concepts.</p>
<p>Inverse Square Law</p>	<p>The content of this booster learning module will introduce you to linear and inverse square functions, and how they are used to model a typical physical phenomenon that behaves linearly, inversely and by the inverse square.</p>
<p>Ohm's Law</p>	<p>In this booster, we discuss the basics of Ohm's Law. Students learn how to determine the series equivalent of resistors in parallel, calculate resistance and current using Ohm's Law and determine the power required by a circuit.</p>
<p>Torque</p>	<p>In this booster, we will introduce students to torque and practice torque calculations.</p>
<p>Vectors</p>	<p>In this booster, we discuss Vectors and the Pythagorean Theorem in Physics.</p>
<p>Vectors in Two Dimensions</p>	<p>This booster discusses the mathematics of vectors, including operations on vectors, vector components, and vector motion.</p>

Boosters: What Are They and How Can I Use Them?



PHYSICS CONTINUED	
X-Rays	This booster introduces the discovery and nature of X-rays and some of the modern uses of X-rays. Since X-rays are a form of electromagnetic radiation, the booster module also provides some background about waves, in general, including the electromagnetic spectrum.

Boosters: What Are They and How Can I Use Them?



STUDENT SKILLS

<p>Basic Computer Navigation</p>	<p>In this booster, we will discuss basic computer navigation. We will review the tools that enable you to use a computer and introduce you to the basic elements and functions of a Windows desktop.</p>
<p>Information Literacy and Research Skills</p>	<p>In this booster, we will discuss information literacy and research skills. Students will learn to locate, evaluate, and use information in a way that is useful to their needs.</p>
<p>Note-taking Strategies for STEM Courses</p>	<p>In this booster, we will discuss note-taking strategies for STEM Courses.</p>
<p>Study Skills for STEM Classes</p>	<p>In this booster, you will learn study skills for STEM classes. You will also learn to implement note-taking strategies, study tips, and how to avoid common study mistakes.</p>
<p>Time Management</p>	<p>Time management refers to how you plan, control, regulate and schedule your time. In this booster, you will learn time management tips and tricks.</p>

Boosters: What Are They and How Can I Use Them?



VETERANS

Cultural Training for Vets to Be Successful	In this booster, we discuss the importance for Vets to return to college, the difference between military life and campus life and time management, networking opportunities and study tips.
Training for Professors and Administrators on How to Include Veterans	This booster assists professors and administrators with ways to include Vets in the classroom.
Veterans Success in College and How to Research a Career	This booster helps Vets with how to be successful in college and research a career.