Using uBEATS in your curriculum is easy as ... 

1. You complete the brief online registration form.

2. We register your students into the Canvas course.

3. You share the course link and individual login information with your students.

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Exposing students early on to science, health science, and STEM shapes their attitude, interest and confidence to pursue these types of careers in the future.

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uBEATS is offered by the University of Nebraska Omaha and the University of Nebraska Medical Center, ensuring content is vetted by experts, follows best practices, and aligns with educational standards. The series of e-modules are specifically designed for grades 6 - 12 to enhance existing curriculum and provide information on top of what students learn in the classroom.

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uBEATS offers ready-to-use, vetted materials

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» Instructional support from our Curriculum Specialist is available
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uBEATS is a free, interactive resource for educators and students of grades 6–12

Module Topics

Cancer
- Hallmarks of Cancer
- Stages of Cancer
- Radon and Cancer
- Pediatric Cancer

Pathology & Microbiology
- Building Blocks of Life
  - Molecules of Life
  - Unicellular and Multicellular
  - Cell Division and Differentiation
  - Reproduction and Fertilization
  - Organization for Matter and Energy Flow in Organisms
  - Specialized Cells: Sensory Pathways
- Pathology
  - History of Medicine and Pathology
  - Histology of Epithelial and Connective Tissue
  - Blood Components and Cells
  - Cell Adaptation and Death
  - Immunology Overview
  - Human Immune System
  - Acute Inflammation, Chronic Inflammation, and Tissue Repair
  - Hemostasis: The Process of Preventing and Stopping Bleeding
  - Genetic Disorders
  - Neoplasia: Uncontrolled and Abnormal Cell and Tissue Growth
  - U.S. Morbidity and Mortality Overview
- Microbiology
  - Microbiology Introduction
  - Bacteria
  - Bacterial Culture
  - Bacteria in the Human Body
  - Anti-Bacteria
  - Parasitology: The Study of Parasites and Parasitic Diseases
  - Mycology: The Study of Fungi
  - Virology: The Study of Viruses
  - Viruses: Are They Living?

Pharmacology
- Chemistry
  - Structure and Properties of the Periodic Table
  - Structure and Properties of Matter
  - Chemical Processes
  - Chemical Reactions
- Pharmacology
  - Pharmacology: Drug Composition, Properties, and Functions
  - Pharmacognosy: Medicines from Plants and Other Natural Resources
  - Drug Discovery
  - Individualizing Drug Therapy
  - Adverse Drug Events
  - Pharmacology Ethics
  - Introduction to Nanotechnology
  - FDA Approval Introduction
  - FDA Approval Process
  - Routes of Administration
  - Pharmaceutical Compounding

Public Health
- Introduction to Public Health
- Introduction to Climate Change
- Climate and Health
- Water and Health
- Sexual Reproductive Health
- Epidemiology
- Physical Activity
- Obesity
- Vaping Prevention (3-Part Series)

Biotechnology
- Bioethics
- Biotechnology
- Cloning
- Genetically Modified Organisms (GMOs) in Food

Genetics
- Cell Biology
  - Cells and Nucleus Introduction
  - Specialized Cells: Receptors and Responses
  - Cell Division: Mitosis and Meiosis
- Genetics
  - Mendelian Genetics Introduction
  - Plant Genetics
  - Human Genetics Introduction
  - Human Genetics
  - DNA and Proteins
  - Gene Expression
  - Heredity
  - Evolution of Traits
  - Types of Genetic Mutation
  - RNA

Academic Success
- Efficient Strategies for Learning
- Growth Mindset (2-Part Series)
- Optimize Your Learning Experience
- Preparing for Class
- Spaced Practice
- How to Master Exams

Careers in Health Care
- Dentistry Careers
- Genetics Careers
- Medical Imaging and Therapeutic Sciences Careers
- Pathology and Microbiology Careers
- Pharmacy Careers
- Public Health Careers

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