



UNO & UNMC  
Building Excellence  
in Academics Through STEM

# uBEATS makes a teacher's job easier

## » Content is vetted by university experts

You can rest easy knowing the information is accurate, follows best practices, and aligns with Nebraska State Science Standards and Next Generation Science Standards.

## » Save yourself time and energy

Each uBEATS module contains a wealth of information, so there's no more searching to find quality educational materials.

## » Easy-to-use teacher guides make integration into curriculum seamless

Access important information like learning standards, key terms and enrichment activities.

## » Modules are accessible anytime, anywhere

uBEATS is housed online via Canvas, so teachers and students access modules when and where it's most convenient for them.

uBEATS offers free materials for 65 different topics

Educators are continually challenged to keep students engaged beyond the typical classroom experience. However, finding quality resources that do so can be time consuming for already busy teachers.

Created by the **University of Nebraska Omaha** and the **University of Nebraska Medical Center**, uBEATS gives teachers access to **up-to-date, interactive online lessons** for grades 6 - 12, each one designed to enhance existing curriculum.

## Accessing uBEATS is easy



You complete the brief online registration form.



We register your students into the Canvas course.



You share the course link with your students.

# uBEATS is a free resource for educators of grades 6 – 12

Go online to  
[unmc.edu/ubeats](http://unmc.edu/ubeats)  
to sign up today.

## Genetics

### CELL BIOLOGY

- » Cell and Nucleus Introduction
- » Specialized Cells: Receptors and Responses
- » Cell Division: Mitosis and Meiosis

### GENETICS

- » Plant Genetics
- » Heredity
- » Mendelian Genetics Introduction
- » Human Genetics Introduction
- » Human Genetics
- » DNA and Proteins
- » Gene Expression
- » Evolution of Traits
- » Types of Genetic Mutation
- » RNA

### BIOTECHNOLOGY

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

## Public Health

- » No Vaping (3-Part Series)

## Pharmacology

### CHEMISTRY

- » Structure and Properties of Matter
- » Chemical Reactions
- » Structure and Properties of the Periodic Table
- » Chemical Processes

### PHARMACOLOGY

- » Pharmacognosy: Medicines from Plants and Other Natural Resources
- » Drug Discovery
- » FDA Approval Introduction
- » FDA Approval Process
- » Pharmaceutical Compounding
- » Routes of Administration
- » Pharmacology: Drug Composition, Properties, and Functions
- » Individualizing Drug Therapy
- » Adverse Drug Effects
- » Pharmacology Ethics
- » Nanotechnology Introduction

## Cancer

- » Hallmarks of Cancer
- » Stages of Cancer
- » Radon and Cancer

## Pathology & Microbiology

### BUILDING BLOCKS OF LIFE

- » Unicellular and Multicellular
- » Reproduction and Fertilization
- » Organization for Matter and Energy Flow in Organisms
- » Specialized Cells: Sensory Pathways
- » Molecules of Life
- » Cell Division and Differentiation

### PATHOLOGY

- » Human Immune System
- » History of Medicine and Pathology
- » Histology of Epithelial and Connective Tissue
- » Blood Components and Cells
- » Cell Adaptation and Death
- » Immunology Overview
- » 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

- » Viruses: Are They Living?
- » 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

## Careers in Health Care

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

### COMING SOON

#### PUBLIC HEALTH

- » Introduction to Public Health
- » Epidemiology
- » Climate Change

#### COLLEGE PREP

- » Growth Mindset
- » Preparing for Class
- » Spaced Practice

#### CAREERS

- » Additional Careers

#### AND MORE!

