

CVA Epidemiology



COBB VIRTUAL ACADEMY
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Class Description

Epidemiology builds upon foundational investigations from biology and emphasizes performance-based learning through scientific research applied to real-world scenarios. Students will develop skills in designing, implementing, and evaluating studies to enhance their media literacy and understanding of public health. Core areas of study include analyzing the processes, patterns, and causative factors of health and disease. Additionally, the course emphasizes the development of media literacy to support informed public health decision-making and the achievement of personal health and life goals.

This course has three sections: Epidemiology A and is the first half of the course and includes Units 1– 4. Epidemiology B is the second half of the course and includes Units 5– 8. Epidemiology Y is the entire course and includes Units 1– 8.

Click [HERE](#) Class Schedule which outlines the Units, Lessons, and Assessments for this course.

Click [HERE](#) for the State standards.

Class Outline

Unit 1: Introduction to Epidemiology

This unit will explore key concepts like outbreaks, transmission, prevention, and public health responses. From historical pandemics to modern-day health challenges, students will learn how science helps protect people from illness.

Unit 2: Disease Process and Epidemiology

This unit looks at how diseases move through communities, what makes some outbreaks worse than others, and how public health experts work to stop them. By understanding the science behind diseases, students can learn how to prevent and control them, keeping themselves and others healthy.

Unit 3: Infectious Diseases

This unit focuses on how infectious diseases move through populations, the role of vaccines and treatments, and how public health efforts help control outbreaks. Students will learn the science behind infections.

Unit 4: Patterns of Disease and Health

In this unit, students will learn the science behind infectious disease transmission and how that knowledge can be used to protect our communities from current and future outbreaks of disease.

Unit 5: Epidemiological Study Designs

In this unit, students will explore key concepts in epidemiological research and study design, focusing on different methods used to investigate public health issues.

Unit 6: Tracking Disease

In this unit, students will develop a deeper understanding of how epidemiologists track disease patterns, pinpoint sources of infection, and use scientific tools to improve public health outcomes.

Unit 7: Health and Disease in the Media

This unit explores how epidemiology-related topics, such as important health information and outbreak news, are shared in the media.

Unit 8: Epidemiology in Public Health

This unit focuses on how epidemiology helps protect the health of communities and populations. Students will learn about the roles of disease detectives and how they investigate outbreaks.

CVA Work Policy

- All classwork must be completed and submitted using the links in CTLS by the DUE DATE listed on the Class Schedule.
- Work should be completed in the order it is assigned on the Class Schedule.
- All work submitted on time will be graded within 48 hours.
- Assignments not submitted by the due date will be marked missing. Missing assignments are calculated as zeros in the coursework average. When students submit missing work, the assignment will be graded and calculated into the coursework average.

The CVA term ends prior to the end of the traditional school semester. The final date work will be accepted each term is posted on the [CVA website](http://cobbvirtualacademy.org) (cobbvirtualacademy.org) and the Class Schedule.

Grading

Grades for this course are calculated based on category percentages as follows:

Category	Weight
Assignments	20%
Experiments	25%
Quizzes	15%
Tests	30%
Final Exam	10%

Academic Integrity

Academic integrity is the cornerstone of learning at CVA and we take the integrity and authenticity of student work very seriously. When academic integrity is maintained, students will make decisions based on values that will prepare them to be productive, meaningful, and ethical citizens.

Students are required to abide by the CVA Academic Integrity Policy. Academic dishonesty in any form will not be tolerated. The CVA Academic Integrity Policy outlines the consequences if



students fail to maintain academic integrity in their course. For additional information, the CVA Academic Integrity Policy is posted on the [CVA website](#).



Academic Integrity Process

Consequences	1st	2nd	3rd	4th
Parent contact by teacher	✓	✓	✓	✓
Resubmit work for full credit	✓			
Resubmit work for half credit		✓		
Automatic zero			✓	✓
Parent contact by CVA administration			✓	✓
Notification by CVA administration to local school			✓	✓
Mandated proctored exam or coursework				✓
Other as designated by CVA or local school administration	✓	✓	✓	✓

General Information

- The Cobb Teaching and Learning System (CTLs) is the platform used to deliver Cobb Virtual Academy classes.
- Students must earn 100% on the Student Orientation Quiz located inside each CVA Digital Classroom before they begin their Student Coursework.
- All coursework must be submitted through CTLs.
- All CCSD students have access to Microsoft 365 applications and must submit assignments in the requested format.
- Students in all sections of this course will take an online final exam during the window of time published on the CVA website and the Class Schedule.



Course Specific Information

There is no required textbook for this course. All content is digital and available in the online course.

Technology Requirements

CTLS is geo-restricted to the United States.

- A modern PC or Mac Computer
 - Lightweight or mobile devices such as Chromebooks, iPads, Android tablets, or smartphones **may not** be compatible with many of our courses.
 - Windows or Mac based computer
- Access to Microsoft 365
- Internet access

CVA Expectations

Student

- Maintain consistent access to a computer and internet
- Login to the course daily and review the announcements
- Adhere to the deadlines listed on the Class Schedule
- Read and promptly respond to teacher communication
- Contact the teacher with questions
- Manage your time wisely

Teacher

- Welcome Phone Call in the first two weeks
- 24-hour turnaround on all communication
- 24 – 48-hour turnaround on grading for items submitted by the due date
- Provide relevant feedback on assignments
- Be accessible via email and phone or text during published hours
- Provide two or more live sessions per term

CTLS Parent Account

Cobb Virtual Academy teachers use CTLS Parent to communicate with students and parents. Students will automatically receive communication sent from CTLS Parent via their CCSD student email address and will be asked to provide a cell phone number to receive text communications. Directions for students to set up CTLS Parent are located in the CVA Orientation. Parents will receive communications according to their existing notification settings.

Student Support

A student's first source for support is their CVA teacher. However, additional support is available. The **CVA Learning Center** is staffed with facilitators and is available both **in person** and **virtually**.



Facilitators can assist students with getting started, class navigation, assignment instructions, submitting work, technical issues, and strategies for online success.

The in-person Learning Center is on the Cobb Horizon High School campus at 1765 The Exchange Atlanta, GA.

All CVA students are enrolled in the Student Support digital classroom which provides access to the Virtual Learning Center (VLC). Students use the CTLS chat feature to send a message to the Student Support Team during the hours it is open.

Live Sessions

Your teacher will post live session information to the Class Board.

