Intermediate Health Science extends the foundations of the Introduction to Health Science course and covers basic medical science, terminology, procedures, and regulations. This course will help guide students toward choosing a specific career path in health services, including career paths in emergency medicine, nutrition, and alternative medicine.

Using real-life scenarios and application-driven activities, students will extend their knowledge of oral and written communication in health science. Students will have an overview of physiology and medical measurements. Students will also synthesize learning from the Introduction to Health Science course by engaging in analysis of real-life scenarios and deepen their knowledge of various career options. In addition, students will expand their understanding of health and safety systems, how to address emergency situations, and deal with infection control issues.

Intermediate Health Science is an intermediate-level Career and Technical Education course for programs of study in health sciences. This course is built to state and national standards.

Length: One semester

UNIT 1: THE BODY IN HARMONY

LESSON 1: UNDERSTANDING BODILY HARMONY

Study: What is Homeostasis?
Describe the bodily processes that help maintain homeostasis.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: What is Homeostasis?
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Study: How the Body Finds Harmony
Identify the chemical and biological factors that help maintain homeostasis.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: How the Body Finds Harmony
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Study: The Body out of Harmony
Explain the changes in structure and function due to trauma and disease.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: The Body out of Harmony
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Checkup: Understanding Imbalance
Identify the chemical and biological factors that maintain, and disrupt, bodily harmony.
Duration: 0 hrs 40 mins Scoring: 0 points

LESSON 2: DISEASE AND HOMEOSTASIS

Study: Disease Control Guidelines
Identify infection control techniques and security measures.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Disease Control Guidelines
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

**Study: Infection and Disease in a Connected Planet**
Discuss global infection, outbreak threats and how the health industry is responding.
Duration: 0 hrs 40 mins Scoring: 0 points

**Quiz: Infection and Disease in a Connected Planet**
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

**Study: Emerging Diseases**
Describe and analyze emerging disease, including HIV/AIDS.
Duration: 0 hrs 40 mins Scoring: 0 points

**Quiz: Emerging Diseases**
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

**Practice: Factors Affecting Disease**
Conduct research on the main factors keeping the body in (and out) of harmony.
Duration: 0 hrs 40 mins Scoring: 40 points

**LESSON 3: THE BODY IN HARMONY WRAP-UP**

**Project: Assemble a Public Health Team**
Research emerging diseases and disorders.
Duration: 2 hrs 30 mins Scoring: 100 points

**Review: The Body in Harmony**
Review the material from this unit.
Duration: 0 hrs 30 mins Scoring: 0 points

**Test (CS): The Body in Harmony**
Take a test on the material from this unit.
Duration: 0 hrs 40 mins Scoring: 60 points

**UNIT 2: THE TOOLS OF THE TRADE**

**LESSON 1: USING INSTRUMENTS**

**Study: Measurements in Health Sciences**
Measure time, temperature and distance in the health sciences.
Duration: 0 hrs 40 mins Scoring: 0 points

**Quiz: Measurements in Health Sciences**
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

**Study: Working with Medical Math**
Convert time, temperature and distance in the health sciences.
Duration: 0 hrs 40 mins Scoring: 0 points

**Quiz: Working with Medical Math**
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

**Checkup: Applying Measurements**
Practice the basics of medical measurements.
Duration: 0 hrs 40 mins Scoring: 0 points

**LESSON 2: INTERPRETING CHARTS**

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Study: Understanding Charts and Tables
Introduce students to the most common health sciences charts and how they relate to overall patient care.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Understanding Charts and Tables
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Study: Interpreting Charts and Tables
Work with the most common health sciences charts and how they relate to overall patient care.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Interpreting Charts and Tables
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Practice: Examining a Patient
Interpret medical data and manage data accordingly.
Duration: 0 hrs 40 mins Scoring: 40 points

LESSON 3: THE TOOLS OF THE TRADE WRAP-UP

Project: Utilizing the Tools of the Trade
File a report on certain scenarios that require computation and metrics skills.
Duration: 2 hrs 30 mins Scoring: 100 points

Review: The Tools of the Trade
Review the material from this unit.
Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): The Tools of the Trade
Take a test on the material from this unit.
Duration: 0 hrs 40 mins Scoring: 60 points

UNIT 3: PATIENT SAFETY

LESSON 1: MEETING SAFETY STANDARDS

Study: Patient Safety Goals
Discuss The Joint Commission patient safety goals.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Patient Safety Goals
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Study: Employee Safety
Discuss proper body mechanics, ergonomics and equipment safety.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Employee Safety
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

LESSON 2: PATIENT MANAGEMENT

Study: Handling Patients
Identify patients in different health sciences settings and the procedures for doing so.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Handling Patients
Take a short quiz on what you've just learned.
Study: Patient Safety and Substance Abuse
Distinguish among the five schedules of controlled substances.

Duration: 0 hrs 20 mins Scoring: 0 points

Quiz: Patient Safety and Substance Abuse
Take a short quiz on what you've just learned.

Duration: 0 hrs 20 mins Scoring: 30 points

Checkup: Patient Procedures
Perform admission, discharge, and transfer functions in a simulated setting.

Duration: 0 hrs 40 mins Scoring: 0 points

Study: Quality Control Systems
Explain quality control systems and/or practices common to the workplace.

Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Quality Control Systems
Take a short quiz on what you've just learned.

Duration: 0 hrs 20 mins Scoring: 30 points

Practice: Dealing with Accidents
Identify and communicate patient handling and quality control.

Duration: 0 hrs 40 mins Scoring: 40 points

LESSON 3: SAFETY AND HAZARDOUS MATERIALS

Study: Biohazards
Explore protocols around biohazardous material.

Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Biohazards
Take a short quiz on what you've just learned.

Duration: 0 hrs 20 mins Scoring: 30 points

Checkup: Safety and Biohazards
Explain the threat of biohazards on patient and public safety.

Duration: 0 hrs 40 mins Scoring: 0 points

Study: What is Asepsis?
Explain medical asepsis.

Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: What is Asepsis?
Take a short quiz on what you've just learned.

Duration: 0 hrs 20 mins Scoring: 30 points

LESSON 4: PATIENT SAFETY WRAP-UP

Project: Practicing Safety
Explore the proper disposal of hazardous material.

Duration: 2 hrs 30 mins Scoring: 100 points

Review: Patient Safety
Review the material from this unit.

Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Patient Safety
Take a test on the material from this unit.

Duration: 0 hrs 40 mins Scoring: 60 points
UNIT 4: EMERGENCIES

LESSON 1: MEDICAL EMERGENCIES

Study: Emergencies 101
Explain the legal parameters relating to emergency care.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Emergencies 101
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Study: Dealing with Emergencies
Explore techniques to successfully navigate emergency situations.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Dealing with Emergencies
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Checkup: Emergency Care Protocols
Analyze proper emergency care protocols.
Duration: 0 hrs 40 mins Scoring: 0 points

Study: Emergency Planning
Explain how emergencies are managed by various health science institutions.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Emergency Planning
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Practice: Develop an Emergency Plan
Develop an emergency plan.
Duration: 0 hrs 40 mins Scoring: 40 points

LESSON 2: RESPONDING TO EMERGENCIES

Study: Emergency First Aid
Read and interpret vital signs as they relate to emergency care.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Emergency First Aid
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Study: What is CPR?
Discuss the basics of CPR.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: What is CPR?
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Study: Foreign Body Obstruction
Discuss foreign body obstruction.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Foreign Body Obstruction
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points
Checkup: Testing Your Response
Review the basics of first aid response.
Duration: 0 hrs 40 mins Scoring: 0 points

LESSON 3: EMERGENCIES WRAP-UP
Project: Let's Get Certified
Obtain certification in CPR, AED, FBAO and first aid.
Duration: 2 hrs 30 mins Scoring: 100 points

Review: Emergencies
Review the material from this unit.
Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Emergencies
Take a test on the material from this unit.
Duration: 0 hrs 40 mins Scoring: 60 points

UNIT 5: BEYOND THE BASICS

LESSON 1: GRIEF
Study: Psychological Health
Identify psychological reactions to illness, disease and disorder, including defense mechanisms.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Psychological Health
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Study: Grief
Identify the steps in the grief process.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Grief
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Checkup: Grief and Illness
Identify psychological reactions to disease and the grief process.
Duration: 0 hrs 40 mins Scoring: 0 points

LESSON 2: FOOD AND WELLNESS
Study: Eating Your Way to Health
Identify wellness and stress control plans as it relates to nutrition.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Eating Your Way to Health
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Study: Planning for Your Health
Discuss the science of alternative health for daily life.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Planning for Your Health
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Checkup: Developing a Wellness Plan
Develop a wellness and stress control plan.
LESSON 3: WHAT'S TRENDING IN ALTERNATIVE HEALTH?

Study: Alternative Health Strategies
Explore alternative health strategies.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Alternative Health Strategies
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Study: Jobs in Alternative Health
Explore career opportunities in alternative health.
Duration: 0 hrs 40 mins Scoring: 0 points

Quiz: Jobs in Alternative Health
Take a short quiz on what you've just learned.
Duration: 0 hrs 20 mins Scoring: 30 points

Practice: Research Alternative Health Careers
Research alternative health strategies.
Duration: 0 hrs 40 mins Scoring: 40 points

LESSON 4: BEYOND THE BASICS WRAP-UP

Project: A Return to Homeostasis
Research alternative health practices and therapies.
Duration: 2 hrs 30 mins Scoring: 100 points

Review: Beyond the Basics
Review the material from this unit.
Duration: 0 hrs 30 mins Scoring: 0 points

Test (CS): Beyond the Basics
Take a test on the material from this unit.
Duration: 0 hrs 40 mins Scoring: 60 points

UNIT 6: INTERMEDIATE HEALTH SCIENCE WRAP-UP

LESSON 1: INTERMEDIATE HEALTH SCIENCE WRAP-UP

Review: Intermediate Health Science Wrap-Up
Review the material from this course.
Duration: 0 hrs 45 mins Scoring: 0 points

Exam: Intermediate Health Science
Take a final exam on the material covered in this course.
Duration: 1 hr Scoring: 120 points