

PREPARE FOR SUCCESS AFTER HIGH SCHOOL

What does it mean to be college and career ready?

CTE courses are aligned to the Common Core Standards and ACT Career Readiness Standards. Upon completion of CTE courses, students will possess the following skills:

- Knowledge of different types of technology and media used in the business world today.
- Understand and apply transferable employability skills.
- Understand how different cultures relate and interact in a global society/economy.
- Demonstrate life-skill independence.
- Apply math skills in relation to the workplace.
- Apply literacy and communication skills in relation to college and careers.

CAREER & TECHNICAL EDUCATION AT A GLANCE

Did you know . . .

- the average high school graduation rate for students who concentrate in CTE programs is 90.18% compared to an average national freshman graduation rate of 74.9%.
- CTE courses expose students to relevant information and provide them with opportunities to apply academic skills to their interests.
- 18 of the 20 fastest-growing occupations within the next decade will require a career and technical education background and training.
- students may qualify to earn college credit and/or professional certifications while taking selected CTE courses.

Source: www.isbe.net



****Articulation Credit through Elgin Community College***

How does articulation work?

1. Take a **FREE** articulated class at any U-46 high school.
2. Earn an A or B in each semester of the course.
3. Enroll at ECC within 2 years after graduation from high school.
4. ECC will grant college credit for each articulated class taken, thereby saving time and money on college tuition!

Note: Articulation agreements are reviewed and updated every two years; consult the ECC website for further details.

For more information, contact a
Health Care Science Education
faculty member.

To enroll in a Health Care Science course,
contact the **Guidance Department**.

Questions? Contact U-46 CTE Coordinator
847-888-5000 Ext. 5310

Health Care Science Education . . .



***Our aim:
College and Career
Readiness...***

***An investment
in your future!***

HEALTH CARE SCIENCE COURSES

Foundations of Health Care Science

Grades 9-12 Semester/1 credit

Students will:

- be introduced to career opportunities in the health care industry.
- match personal abilities and interests to career options.
- overview health care delivery, patient care past and present, health care systems, legal and ethical responsibilities and safety and infection control practices.

Fundamentals of Human Anatomy

Grades 9-12 Semester/1 credit

Students will:

- be introduced to how the body systems work together to maintain internal balance and good health.

Advanced Health Care Science

Grades 10-12 Full year/2 credits

Through hands on integration and technology, students will:

- develop knowledge and skills common to most health care occupations.
- complete interactive activities related to current therapies, first aid and CPR, medical terminology, safety and infection control, and an understanding of human growth and development and disease processes.

Note: This course establishes a strong foundation for future study in health care science.

CNA (Certified Nursing Assistant)*

Grades 11-12 Full year/2 honors credits

Students will:

- do an in-depth study of various facets of patient care which includes a minimum of 40 hours of supervised clinical experience with patients.
- upon successful completion of all components of this course, students may qualify to take the state certification exam.

Note: Seven hours of articulated credit at ECC may be earned.

Human Anatomy & Physiology

Grades 11-12 Full year/2 credits

This course will be phased out in 2014-2015 and replaced with Human Body Systems (PLTW).

Students will through technology integration:

- focus on the advanced study of human anatomy, physiology, and pathophysiology (the study of disease processes).
- Identify and describe the structures of specimens through dissection labs.
- have an opportunity to take a concurrent health care science internship.

HEALTH CARE SCIENCE COURSES

Principles of Biomedical Science (PBS)

Grades 10-12 Full year/2 honors credits

Through problem-based projects, students will:

- be introduced to the biomedical sciences.
- investigate the human body system and various health conditions.

Note: This course offers an overview of all the courses in the Biomedical Sciences program and establishes the scientific foundation for subsequent courses.

Human Body Systems (HBS)

Grades 11-12 Full year/2 honors credits

This course will be available in the 2014-2015 school year.

Students will:

- examine the interactions of body systems as they explore identity, communication, power, movement, protection and homeostasis.
- design experiments, investigate the structures and functions of the human body, and use technology to monitor body functions such as muscle movement, reflex and voluntary action, and respiration.
- build organs and tissues on a skeletal frame and work through real world cases often role playing biomedical professionals to solve medical mysteries.
- have an opportunity to participate in a concurrent health care science internship.

Medical Interventions (MI)

Grades 11-12 Full year/2 honors credits

This course will be available in the 2015-2016 school year.

Prerequisite: Previous Health Care Science course recommended

Students will:

- complete projects that investigate various medical interventions that extend and improve the quality of life including diagnostics, surgery, bio-nanotechnology, pharmacology, prosthetics, rehabilitation, and lifestyle choices.
- review topics such as stem cell research, cochlear implants, insulin pumps, joint and organ replacements, heart pacers, and internal defibrillators.
- have an opportunity to participate in a concurrent health care science internship.

***Articulated credit is available through Elgin Community College. See back of brochure for details.**

HEALTH CARE SCIENCE COURSES

HealthCare Science Internship

Grades 11-12 Full year/4 credits

Prerequisite: Students must have a grade point of 2.5 or better and an exemplary attendance and discipline history. Successful completion or concurrent enrollment in at least 2 semesters of Health Care Science Education is recommended. Application must be submitted and approved.

Note: Designed for junior and senior students to experience career related interests in health care science. Students may travel off-site to gain practice of technical application skills. It is the student's responsibility to secure their internship employment or volunteer experience. Transportation to and from site location is the responsibility of the student.

Students will:

- engage in pre-assignment training to better acquaint the student with his/her internship responsibilities.
- summarize and share the internship experience.

Note: Instruction is enhanced by paid job training outside the school setting. Written training agreements and individual student training plans are developed and agreed upon by the employer, student, and coordinator. The coordinator, student, and employer assume compliance with federal, state, and local laws and regulations.

