

CEP (Concurrent Enrollment Program)

Dual Credit courses offered at MHS

BIO741 PLTW Principles of Biomedical Science

3 credits

Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses. This course was developed by Project Lead the Way.

CHM165 General Chemistry I

4 credits

A systematic study of the principles of inorganic chemistry with emphasis on scientific measurement, atomic structure, chemical bonding, nomenclature, stoichiometry and chemical reactions. Primarily for chemistry and biology majors (or minors) pre-med, pre-vet, pre-dental and others who need science-related background.

CHM175 General Chemistry II

4 credits

A continuation of CHM165 with emphasis on thermodynamics, kinetics, equilibrium, electrochemistry, solubility products, pH, buffers, metal complexation, and acid-base theory.

CIS450 Computer Science Software Engineering

3 credits

This course is designed to be the first computer science course for students who have never programmed before. ICS is an optional starting point for the PLTW Computer Science program. In this course, students will create interactive stories in Scratch™ (an easy-to-use programming language); work in teams to create simple apps for mobile devices using App Inventor; and analyze data about students' health, social habits, and interests using functions in Excel®. Students will learn the impact of computing in society and the application of computing across career paths. They will also transfer the understanding of programming gained in App Inventor to a third language, Python®, in which they learn introductory elements of text-based programming. The course aligns with the Computer Science Teachers Association (CSTA) 3A standards.

EGT400 PLTW-Introduction to Engineering

3 credits

This course uses a design development process while enriching technical and engineering problem-solving skills; students create and analyze models using specialized computer software (AutoCAD Inventor).

EGT410 PLTW-Principles of Engineering

3 credits

Using technology systems and manufacturing processes, students find out how math, science, and technology help people. This course was developed by Project Lead the Way.

ENG105 Composition I

3 credits

Written communication using various rhetorical methods. For students whose standardized test scores indicate insufficient preparation, prerequisites are ENG060, ENG061 and/or instructor approval.

ENG106 Composition II

3 credits

A study of written communication emphasizing argumentation, persuasion, investigation, and the research paper.

HIS151 U.S. History to 1877	3 credits
Survey of major political, economic, and social developments in American history from the Age of Discovery through the Civil War.	
HIS152 U.S. History since 1877	3 credits
Survey of the development of modern America, 1865 to the present.	
HSC113 Medical Terminology	2 credits
Medical terms related to medical science (describing human body and functions). Emphasis on building a medical vocabulary through understanding root words, prefixes and suffixes, accurate spelling, and pronunciation.	
HSC172 Nurse Aide	3 credits
This 75-hour nurse aide course prepares the student for state competency testing and employment in a long-term care nursing facility. Emphasis is on achieving a basic level of knowledge and demonstrating basic nursing care skills in order to provide safe, effective resident care. The course consists of classroom, lab and clinical experiences.	
LIT133 Minority Voices in US Literature	3 credits
A survey of literature of African-Americans, Hispanic-Americans, Native Americans and Asian-Americans. Special attention is also given to women authors.	
MAT129 PreCalculus	5 credits
Topics in algebra, trigonometry and analytical geometry: exponents, exponential functions, logarithmic functions, polynomial and rational functions, sequences and series, trigonometric functions, identities, complex numbers, lines in the plane, conic sections, polar coordinates, parametric equations.	
MAT156 Statistics	3 credits
Descriptive statistics, probability concepts, binomial and normal distribution and introduction to inference.	
MAT210 Calculus I	4 credits
Limits, continuity, derivatives, applications, integration.	
MAT216 Calculus II	4 credits
Inverses; logarithmic, exponential and trigonometric functions; techniques of integration; infinite series.	
PHY162 College Physics I	4 credits
General physics for science majors; not intended for engineering majors. Algebra-based, topics include Newtonian mechanics, properties of matter, and waves.	
PSY111 Introduction to Psychology	3 credits
Basic concepts, methods and principles of the study of behavior and mental processes. Overview of the contributions of psychology	

Registering for MCC credit

All students must register through the high school counseling office. The High School Student Application/Registration form must be submitted to the MCC Admission's Office.

Earning credit

A student enrolled in dual credit earns both MHS and MCC credit. Marshalltown Community School District pays for the college credit(s). Take each class seriously, remembering that the grade(s) will be permanently recorded on an official college transcript that follows throughout all college endeavors.

Dropping a class

For a student to drop a college credit class, two drop forms must be completed: one for MHS and one for MCC. MHS counselors have the MCC drop slip, which requires the signature of the instructor and the high school counselor. The MHS Counseling Office collects and mails the drop slips to MCC. **The last day to drop 2017-18 courses, through the College, is November 17 (Fall semester) and April 13 (Spring semester).**

Failing a class

The failure of a pupil to complete or otherwise receive credit for an enrolled course requires the pupil to follow the individual procedures of his/her school.

Transferring the credit to another college

A student must request the transfer of credit by submitting a transcript request form to the MCC Registrar's Office. **The form is available at the Registrar's Office or online at <https://mcc.iavalley.edu/resources-for-students/registrars-office/>.** The College charges a minimal \$5 processing fee to send a transcript. The student must pay this fee; MCSD does not pay this fee. The transcript may be sent immediately or select 'send at the end of the term' to ensure all grades are posted on the transcript. **As you submit college applications, you need to indicate that you have transfer credits.**