

Earn college credit



PLTW Sites:
Albia Community High School
Cardinal High School
Fairfield High School
Keokuk County Career Academy
Ottumwa High School
Van Buren High School
Indian Hills– Centerville & Ottumwa

Are you a problem solver? Do you take things apart to see how they work? Careers in Engineering and Engineering Technology offer good wages and benefits.

hands-on

Pre-Engineering & Engineering Technology

Project Lead the Way– High Schools & IHCC

Courses offered at Region XV Schools, 2009-2010

Introduction to Engineering Design: This course is the first level in the PLTW courses. This Project Lead The Way course develops student problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using solid modeling computer design software.

*Offered at: Albia HS, Cardinal HS, Fairfield HS, Ottumwa HS, Keokuk County Career Academy, Van Buren HS

Principles of Engineering: This course helps students understand the field of engineering/engineering technology by exploring various technology systems and manufacturing processes. Students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people.

*Offered at: Albia HS, Ottumwa HS, Van Buren HS

Specialization courses at IHCC beginning Summer, 2009 May 27—August 13

Digital Electronics: This course is a course in applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices.

Monday—Thursday, 1:00—2:40 pm

Biotechnical Engineering: This course introduces students to the fundamental aspects of biotechnology and the engineering technologies related to this emerging field. Instruction will emphasize the using of engineering and technology with life sciences to create new products. Application and design principles will be used in conjunction with scientific knowledge to explore and investigate such areas as: development of biomedical devices; pharmaceutical and medical therapies; and agricultural research and development. Ethical, social and regulatory issues of biotechnology applications will be addressed throughout the course.

Wednesday & Thursday, 1:00—3:50 pm

Courses offered at IHCC in academic year 2009-2010:

Introduction to Engineering Design
Principles of Engineering
Computerized Integrated Manufacturing

***Gain an understanding of how the skills
YOU learn in school relate to everyday life!***

See your counselor for more information!

