

## Industrial Maintenance Technology Academy

The **Industrial Maintenance Technology** Academy gives you the chance to explore a career in Industrial Maintenance field while earning college credit before you graduate from high school! This academy will begin to prepare you to become a plant maintenance technician. You will learn technical skills in maintaining and troubleshooting electrical and mechanical systems used in industry. Careers in manufacturing and Industrial Maintenance are in high demand and the job opportunities continue to expand for individuals who have skills in troubleshooting and repair for today's industrial systems.

You may enroll in any or all of the courses listed in the Academies through the guidance of your high school counselor. You are not required to take all courses within the Academy to get college credit for each course.



### Career Opportunities:

Plant Maintenance Technician

### How much will it cost?

Your school district pays for your courses. You and your family are saving \$170/credit hour (SCC's in-state tuition cost for 2016-2017).

Check with your high school guidance counselor but you most likely will need to provide your own transportation and purchase your textbooks.

### Who may participate?

Any high school student who meets the requirements may participate, check with your high school guidance counselor.

### What may I do after high school?

When you complete courses in the **Industrial Maintenance** Technology Academy, you will earn SCC college credit and have an SCC college transcript. If you enroll in the industrial maintenance technology programs at SCC, you may bypass the courses you have already taken, saving time and money.

Some courses may apply to other programs. SCC Enrollment Specialists can answer your questions. To view all the programs offered at SCC, visit our website for more information:  
<http://www.scciowa.edu/academics/degs-progs-depts/index.aspx>

### May I take more?

If there are openings in appropriate classes on an SCC Campus, there may be a possibility for further study. Check with your high school guidance counselor.

### When and where are the classes located?

Concurrent Enrollment classes are held at Central Lee and Fort Madison Community High Schools. See back for detailed information.

### How do I register?

Meet with your high school guidance counselor to determine course options. Register online with SCC, as directed by your counselor. Your high school counselor will send the class roster to SCC.

### Do courses transfer to other colleges?

Check out this link: [www.transferiniowa.org](http://www.transferiniowa.org) to see how courses may transfer to other colleges. It's also recommended that you double check with the college to make sure how/if courses will transfer.

#### Questions or for more information:

**Michelle Randall**  
Director of High School Relations  
319-208-5046: [mrاندall@scciowa.edu](mailto:mrاندall@scciowa.edu)

**West Burlington Campus**  
1500 West Agency Road  
West Burlington, IA 52655  
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# Course Descriptions

## ELE-116 Blueprint Reading

**Credit: 1** This course discusses the specific data that is drawn on a blueprint and explains how to read and interpret the drawing format. Students will learn orthographic and isometric drawings to understand shapes, sizes, and dimensions. Students will study building terms and construction features of carpentry, masonry, electrical, mechanical and plumbing trades.

## ELT-295 AC/DC Fundamentals

**Credit: 2** This course introduces students to the components used in most electronic circuits and how they are measured, tested and function. Students will learn the fundamentals of AC and DC electrical systems used for power and control in industrial applications. Students will learn how to operate, install, design and troubleshoot basic AC and DC electrical circuits.

## ENG-105 Composition I

**Credit: 3** A study of the principles of writing. Emphasis on rhetoric, mechanics, and development of expository patterns: narration, description, illustration, comparison/contrast, classification, process, and cause/effect. Required for AA and AS Degrees. Prerequisites: Mandatory ACCUPLACER or ACT test score and mandatory eWrite score (per SCC Writing Scores & Mandatory Course Placement Chart), or a C- or above in ENG-061, College Preparatory Writing II. No waivers.

## ENG-106 Composition II

**Credit: 3** A continuation of study of the principles of writing begun in ENG-105. Emphasis is placed on persuasive writing as well as literary analysis and the MLA research paper. Time will also be spent exploring the research sources available from the library. Required for AA and AS Degrees. Prerequisite: C- or above in ENG-105.

## IND-107 Valves

**Credit: 1** This course gives students a fundamental understanding of the various shutoff valve constructions including wedge, ball, plug, globe, pinch, and diaphragm types, basic maintenance techniques, and the sources of many problems. From this foundation, students will be better able to develop maintenance skills through plant training programs or on-the-job experiences. The course also provides basic guidelines for installing various types of shutoff valves.

## MAT-702 Introduction to Math Applications

**Credit: 3** This course is offered to students who can profit from an applied course in mathematics and will prepare students who need to develop skills for MAT-704. It is designed as an introductory level algebra course recommended for students with one year of high school algebra. Emphasis is on the building of basic algebra skills and the application of these mathematical techniques. The course studies the relationship of geometry and algebra as they apply to various fields. This course will also cover whole numbers/decimals, integers, fractions/percents, direct measurement, basic geometric concepts/relationships, linear equations, and right-triangle trigonometry. Prerequisite: MAT-052 or ALEKS score of 14 or higher or ACT Math score of 18-19 or math faculty approval.

## CENTRAL LEE

Fall : November 27, 2017 - March 2, 2018

ELE-116	Blueprint Reading	1 credit
IND-107	Valves	1 credit
ELT-295	AC/DC Fundamentals	2 credits

Fall Semester

ENG-105	Composition I	3 credits
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Spring Semester

ENG-106	Composition II	3 credits
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## FORT MADISON

Trimester 2 : November 27, 2017 - March 2, 2018

ENG-105	Composition I	3 credits
MAT-702	Introduction to Math Applications	3 credits

Trimester 3 : March 5, 2018 - May 30, 2018

ELE-116	Blueprint Reading	1 credit
IND-107	Valves	1 credit
ELT-295	AC/DC Fundamentals	2 credits
ENG-106	Composition II	3 credits

Southeastern Community College (SCC) is committed to providing equal access to all persons who seek post-secondary and related educational assistance, within our stated mission and statutory authority. We remain committed to helping all persons to the level of their ability to benefit, regardless of age, disability, ethnicity, gender, national origin, race, religious creed, marital status, or sexual orientation. We will accomplish this commitment through our offering of a broad spectrum of quality educational programs, activities, educational assistance, and related support services. We value diversity as a rich enhancement of student experiences here and we are thereby committed to policies that promote fairness and inclusion for all who attend SCC.

