

## Construction Technology Academy

The **Construction Technology** Academy gives you the chance to explore a career in and prepare for entry into the construction industry field...while earning college credit before you graduate from high school! Construction courses supply hands-on experience and also contribute to credentials such as the 10 hour OSHA certification and credit toward the NCCER apprenticeship curriculum.

People with construction knowledge and skills are in high demand in SE Iowa and across the country. In fact, Southeast Iowa Builder's Association (SEIBA) makes scholarships available to high school students wishing to pursue construction degrees because of the numerous opportunities available in the industry.

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:

Carpenter  
Concrete Finisher  
Construction Materials Supply Coordinator  
Job Site Superintendent  
Estimator  
Finish Carpenter  
Construction Business Owner/Manager

### How much will it cost?

Your school district pays for your courses. You and your family are saving \$180/credit hour (SCC's in-state tuition cost for 2017-2018).

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 **Construction Technology** Academy, you will earn SCC college credit and have an SCC college transcript. If you enroll in this program 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:  
[www.scciaowa.edu/scripts/admissions/programs/programlist.asp](http://www.scciaowa.edu/scripts/admissions/programs/programlist.asp)

### 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?

Classes are located at the SCC West Burlington Campus and begin at 7:00 am.

Class dates run according to the SCC Academic Calendar year.

### 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  
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West Burlington, IA 52655  
Toll-free: 1-866-722-4692 x5046

# Construction Technology Course Descriptions

## Fall Semester

### CON-108 Construction Safety

**Credit: 1** The Construction Safety course will provide students with requirements and expectations required to work in the numerous facets of the construction industry. The course will introduce the national OSHA safety standards for General construction and upon their completion of this course will receive the OSHA 10 hour General Construction certification.

### CON-147 Carpentry I

**Credit: 6** A course designed to enable students to develop basic skills and knowledge in carpentry. Included in this course is the study of construction techniques with emphasis on basic safety, basic math, introduction to hand and power tools, basic rigging, fasteners, wood building materials, floor and wall systems, site preparation, concrete and reinforcement materials, concrete handling, and forming foundations and flatwork. A student must receive a grade of C- or above in order to then take CON-148.

### CON-332 Construction Materials and Resources

**Credit: 3** This course is designed as a comprehensive overview of the construction industry and materials used in the profession. It is a conceptual treatment of the construction-personnel production system. Also included is a study of the materials of construction, their properties, manufactures, characteristics and applications.

### 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 COMPASS, ACT or AccuPlacer test score and mandatory eWrite or WritePlacer score (per SCC Writing Scores & Mandatory Course Placement Chart), or a C- or above in ENG-061, College Preparatory Writing II. No waivers.

### ENG-111 Technical Writing

**Credit: 3** Studies the rhetorical techniques specifically oriented to industrial requirements. Applies expository patterns as incorporated within the report apparatus, including such specialized formats as process analysis, progress/ lab reports, feasibility study, and the proposal. Also includes correspondence and application of basic library research skills. Course designed to satisfy specified career program requirements. Prerequisites: Mandatory COMPASS, ACT or AccuPlacer test score and mandatory eWrite or WritePlacer score (per SCC Writing Scores & Mandatory Course Placement Chart), or a C- or above in ENG-061, College Preparatory Writing II. No waivers.

## Spring Semester

### CAD-101 Introduction To CAD

**Credit: 3** An introduction to computer aided design and drafting. Actual hands-on experience in designing, drawing, and dimensioning using CAD micro-based CAD software. The course presents logical step-by-step instruction about the CAD commands, mode settings, drawing aids, shortcuts and other valuable characteristics of CAD. Finished copies of the students' work will be made on a printer or plotter.

### CON-148 Carpentry II

**Credit: 6** A course designed to further enable students to develop carpentry skills with emphasis on special floor, wall and roof systems, reading plans and elevations, field engineering principles, forming, and water and damp proofing. Prerequisite: CON-147.

### CON-113 Construction Printreading

**Credit: 2** Stresses principles of interpreting trade blueprints and reading of specifications basic to all aspects of the trades. Deals with types of line, development and arrangement of views, dimensioning practices, and invisible edges. Practical problems from prints suited to the particular trade will be incorporated.

### CON-252 Construction Electricity

**Credit: 3** This course introduces the requirements for and installation of residential and light commercial electrical systems. Emphasis will be placed on local and national Electrical Codes. Hands-on experience will include such activities as basic wiring of the service entrance, panel box, circuits, switches, receptacles, telephone and TV jacks, door chimes, smoke detectors and other similar electrical devices. This course is specifically designed for those students choosing a Construction or Design curriculum.

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.

