

# Construction Technology

**Winona Campus**

## OVERVIEW

**Southeast's Construction Technology program graduates can look forward to an outstanding job market as the construction industry continues to grow.**

Construction tradesmen and women make up the largest group of building-trade workers. They work quickly, accurately, and efficiently to maximize use of time and materials. With a shortage of these qualified professionals in today's job market, graduates of Southeast's Construction Technology program can expect to find many employment opportunities in Southeast Minnesota and beyond.

At Southeast in Winona, our students gain hands-on skills in the construction lab and on-site in a real-world environment. In addition to gaining experience with the tools, materials, methods, and standard practices of the trade, our students learn:

- Planning, designing, estimating, and blueprint reading
- GPS geosystems, solar, and green building
- Building, finishing, and installing custom cabinets

## MAJORS WITHIN

Construction Technology	AAS	60 credits
Construction Technology	Diploma	37 credits

Estimated costs for each major including tuition, books and supplies are posted on [southeastmn.edu](http://southeastmn.edu) under Academics > Academic Programs by Degree.

## PROGRAM OUTCOMES

1. Produce quality carpentry labor working safely under the direction of a construction foreman.
2. Understand basic carpentry theory and apply the use of hand and power tools of the carpentry trade.
3. Communicate efficiently with the construction company and its employees.
4. Produce adequate math skills to be able to solve math related construction problems on site.

## INSTRUCTOR

Scott Herold has been working in the construction field for almost 20 years. He has experience in multiple fields of construction, including 13 years building residential and agricultural buildings. He also spent time constructing pre-engineered steel buildings and worked for Schwab Construction, a local company in Winona, MN. He worked on projects such as Main Square apartments as well as Vision 2020 for Cotter Schools. Scott enjoys all aspects of the building process and has a solid foundation of knowledge in the construction industry. He is a graduate of Ashworth College with a diploma in carpentry.



## PROGRAM HIGHLIGHTS

Southeast program has excellent placement history

There is a huge demand for quality trades men and women

Learn new technologies such as geosystems, solar, and geothermal

Curriculum integrates BPI standards for energy efficiency

Work hands-on with non-profit organizations to better the community

Opportunities are almost endless -- you can take your training in several different directions.

## CAREER OPPORTUNITIES

Commercial & Residential Carpentry  
Construction Management  
Small Business Owner  
Cabinet Making  
Concrete Finisher  
Insulator  
Lumberyard

## JOB PLACEMENT

100%

# Construction Technology

## Sample Full-time Program Plan

Please note that this is a sample program schedule. Your schedule may vary depending upon your needs, goals, and course availability. Please meet with your advisor to plan your schedule each semester.

### Construction Technology - AAS

Course No.	Course Name	Credits
<b>First Semester (Fall)</b>		
CARP 1100	Cabinetry 1	2
CARP 1105	Residential Construction 1	2
CARP 1110	Concrete Construction	2
CARP 1115	Emerging Construction Technologies	2
CARP 1120	Architectural Drawings	1
CARP 1125	Carpentry Lab	5
MATH 1230	Introduction to Statistics	3
<b>Semester total</b>		<b>17</b>

### Second Semester (Spring)

CARP 1200	Cabinetry 2	3
CARP 1205	Residential Construction 2	1
CARP 1210	Commercial Construction 1	1
CARP 1215	Construction Estimating	2
CARP 1220	Architectural Drawings 2	1
CARP 1225	Carpentry Lab 2	4
COMM 1228	Interpersonal Communications	3
WELD 1455	Trades Enhancement Welding	3
<b>Semester total</b>		<b>18</b>

### Third Semester (Fall)

CARP2110	Commercial Construction 2	1
CARP2215	Emerging Construction Technologies 2	2
Goal 6	Humanities and Fine Arts	3
Goal 5	History, Social and Behavioral Sciences	3
TRDR 1300	Straight Truck Proficiency	2
<b>Semester total</b>		<b>11</b>

### Fourth Semester (Spring)

CARP2105	Residential Construction 3	1
CARP2230	Carpentry Internship	7
Course from MnTC Goal 1-10 [see advisor for courses]		3
COMP 1140	Online Communications	1
<b>Semester total</b>		<b>14</b>

**Total Required Credits - 60**

### Construction Technology - Diploma

Course No.	Course Name	Credits
<b>First Semester (Fall)</b>		
CARP 1100	Cabinetry 1	2
CARP 1105	Residential Construction 1	2
CARP 1110	Concrete Construction	2
CARP 1115	Emerging Construction Technologies	2
CARP 1120	Architectural Drawings	1
CARP 1125	Carpentry Lab	5
MATH 1015	Geometry	2
WELD 1455	Trades Enhancement Welding	3
<b>Semester total</b>		<b>19</b>

### Second Semester (Spring)

CARP 1200	Cabinetry 2	3
CARP 1205	Residential Construction 2	1
CARP 1210	Commercial Construction 1	1
CARP 1215	Construction Estimating	2
CARP 1220	Architectural Drawings 2	1
CARP 1225	Carpentry Lab 2	4
COMM 1228	Interpersonal Communications	3
COMP 1140	Online Communications	1
TRDR 1300	Straight Truck Proficiency	2
<b>Semester total</b>		<b>18</b>

**Total Required Credits - 37**