

**ELLSWORTH COMMUNITY COLLEGE**  
**IOWA VALLEY COMMUNITY COLLEGE DISTRICT**  
**1100 College Avenue, Iowa Falls, Iowa, 50126**

**Phone: (641) 648-4611 or 1- (800) ECC-9235 Fax: (641) 648-3128**

### **Get into Masonry**

If you enjoy working outdoors and like to work with your hands in a high-paying, rewarding career, consider masonry! The bricklaying and masonry program will prepare you to work as a brick mason or block mason for either residential or commercial construction. You'll learn proper building techniques through hands-on projects.

You'll develop the skills and knowledge to perform well at entry level positions in the field of masonry. Become a bricklayer, blocklayer or bricklayer helper and then with further education and work experience, a graduate may move into a career as bricklayer foreman, cement mason, tile setter and stone mason.

Look inside and you'll see why Ellsworth is Your Best Choice!

### **Your Best Choice Because**

Hands-on experiences with brick, blueprints, cement and tile.

Job placement rate is 100 percent. Students often get summer work experiences with area contractors and employers.

Small class sizes help you succeed.

Learn a skill that helps you become a "builder of communities."

Advisory committee with local professionals supports the program and curriculum. Committee members are often guest speakers in class.

Many on-the-job experiences lead to job offers before our masonry students even graduate!

"Thanks to the Ellsworth Masonry program I have a successful business. The program was a great learning environment to develop skills and knowledge."

Chad Wicks  
Masonry program graduate  
Self-employed bricklayer

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**Diploma**

This program is for persons who wish to enter the field of masonry construction with an emphasis on brick. The program provides 34 weeks of technical information and practical experience with six weeks of on-the-job training in the area of materials handling, tending master brick and stone masons.

Students will develop a knowledge of tools, safety, equipment, styles, applied to skill development in the actual construction of a house or similar structure.

**General Education**

Credit Hours

BU030 Human Relations	3
Program Requirements	
MA020 Masonry Orientation & Safety	1
MA022 Construction Math & Estimating I	3
MA030 Masonry Principles	4
MA032 Construction Math & Estimating II	2
MA035 Residential Blueprint Reading	2
MA042 Brick & Block Lab I	9
MA052 Brick & Block Lab II	10
MA060 Commercial & Industrial Blueprint Reading	2
MA065 Masonry Special Applications	2
MA080 Welding	1
MA099 Co-op Field Experience: Masonry	4
PE221 First Aid	<u>1</u>
Total	44
Total Required Hours	47

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**Meet the instructor...**

Harold Hytrek has been a mason for 28 years. He was raised in a large family of masons and is an Iowa native. He has been training apprentices "in the field" for 26 years. Also, he has managed three different companies during his career. He enjoys training tomorrow's tradesmen.

He welcomes your questions:

Harold Hytrek

hhytrek@iavalley.cc.ia.us

641-648-9235 or 1-800-ECC-9235, Ext. 253

**ECC = Success**

The success of our graduates truly speaks to the strength of our program. Here's what some of our graduates are doing:

Eric Fanny, Hampton, is an apprentice for Boucher Masonry, Boone, IA.

Cory Beeghly, Conrad, works for Seedorff Masonry, Strawberry Point, IA.

Jim Martin, Des Moines, works for Arnold Lindsay, Iowa Falls, who is also a graduate of ECC's masonry program.

Dan Amble, Hampton, is an apprentice for Seedorff Masonry, Strawberry Point, IA.

Ben Duncal, Clarion, works as an apprentice for Boucher Masonry, Boone, IA.

Blake Hoffmeister, Ackley, is an apprentice for Boucher Masonry, Boone, IA.

"I love laying brick! My education and job have given me a chance to improve my life."

Adam Wickwire

Masonry program graduate

Apprentice at Carl Schuler Masonry

**VISIT OUR WEB SITE TO LEARN MORE ABOUT OUR MASONRY PROGRAM: [www.iavalley.cc.ia.us/ecc/Masonry/index.htm](http://www.iavalley.cc.ia.us/ecc/Masonry/index.htm)**

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## **MA – Masonry**

### **MA010**

#### **Introduction to Masonry 1**

Basic skills in masonry. Allows student to become familiar with cement, block, and brick, as materials used in small construction projects. Deals with concrete, block laying, and brick veneers.

### **MA020**

#### **Masonry Orientation & Safety 1**

Prepares students for the co-op field experience by allowing students to become familiar with masonry product names, tools, and OSHA safety requirements for the industry.

### **MA022**

#### **Construction Math & Estimating I 3**

Includes fractions, decimals, percentage, ration, proportion, and mensuration as they apply to the bricklaying trade. Enables the student to gain proficiency and develop a foundation for the applied mathematical calculations familiar to the trade.

## **MA030**

### **Masonry Principles 4**

Technical information in the manufacture, layout, and construction. Includes instruction in the care and maintenance of tools and equipment and the safety procedures to follow relative to tools, equipment, and safety on the job site.

## **MA032**

### **Construction Math & Estimating II 2**

A continuation of MA022. Review of math and more in-depth estimating formulas and procedures used in estimating masonry are thoroughly covered.

## **MA035**

### **Residential Blueprint Reading 2**

Fundamentals of residential drawings with an emphasis on interpretation of conventional symbol, alphabet of lines, notations, and dimensioning procedures.

## **MA042**

### **Brick & Block Lab I 9**

Laying various aggregate block, spreading mortar, laying brick and block to line, building leads, pilasters, piers, columns, and building corners.

## **MA052**

### **Brick & Block Lab II 10**

A continuation of the practical experience to develop speed and accuracy. Also practical experience in constructing fireplaces and building modular masonry walls. Emphasizes safety as well as speed integrated with accuracy.

## **MA060**

### **Commercial & Industrial Blueprint Reading 2**

Introduces commercial blueprint reading. Sufficient classroom background experience to make application to practical "hands-on" experience.

## **MA065**

### **Masonry Special Applications 2**

Special applications in masonry construction including a study of various building layouts; instruction in the various types and construction of fireplaces and arches.

## **MA080**

### **Welding 1**

Perform basic welding and cutting that might be necessary on lintels and reinforcing rods.

## **MA090**

### **Individual Projects: Masonry Var. Credit**

Prerequisite: Instructor's approval

Special topics as arranged with instructor.

## **MA095**

### **Experimental Course: Masonry Var. Credit**

Prerequisite: Instructor's approval

New courses as student interests demand.

## **MA099**

### **Co-op Field Experience: Masonry 4**

Supervised on-the-job training in student's area of emphasis.

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