

# MASONRY (MSY)

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## MSY 105 (3 credit hours)

### Introductory Masonry

Introduces various types of mortar and cement along with the use of basic masonry tools. Emphasizes different methods of spacing materials on a construction site, the 6-8-10 method, and use of the transit level, brick spacing and modular rule focusing on laying straight and plumb brick to the line, bricking gables and building columns. Covers application techniques for setting up different types of masonry materials, marking off layout lines and erecting batter boards along with techniques employed in different types of weather and climates. Laboratory: 3.0 credits (90 contact hours).

**Attributes:** Technical

**Components:** LAB: Laboratory

## MSY 115 (3 credit hours)

### Intermediate Masonry

Builds on proficiency in competencies learned in MSY 105. Focuses on laying straight and plumb brick to the line with emphasis on bricking gables and building columns. Lab: 3.0 credits (90 contact hours).

**Pre-requisite:** MSY 105 with a grade of C or higher or Consent of Instructor.

**Attributes:** Technical

**Components:** LAB: Laboratory

## MSY 198 (3 credit hours)

### Practicum I

Provides supervised on-the-job work experience related to the students educational objectives. Students participating in the Practicum do not receive compensation. Practicum: 3.0 credits (90 contact hours).

**Pre-requisite:** Consent of Instructor.

**Attributes:** Technical

**Components:** PCM: Practicum

## MSY 199 (3 credit hours)

### Cooperative Education I

Provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Co-op Education program receive compensation for their work. Co-Op: 3.0 credits (90 contact hours).

**Pre-requisite:** Consent of Instructor.

**Attributes:** Technical

**Components:** COP: Co-op

## MSY 205 (3 credit hours)

### Advanced Masonry

Provides experience in laying quoin corners, bricking in around electrical and plumbing units, and laying door and window brick sills. Provides opportunity for students to construct expansion joints, piers, pilasters and retaining and splitface block walls. Laboratory: 3.0 credits (90 contact hours).

**Pre-requisite:** [(MSY 105 and MSY 115 with a grade of "C" or higher] or Consent of Instructor.

**Attributes:** Technical

**Components:** LAB: Laboratory

## MSY 215 (3 credit hours)

### Masonry Lab

Provides for practice and application of principles, theories and skills taught in MSY 105, MSY 115, MSY 205. Laboratory: 3.0 credits (90 contact hours).

**Pre-requisite:** [(MSY 105 and MSY 115 and MSY 205) with a grade of "C" or higher] or Consent of Instructor.

**Attributes:** Technical

**Components:** LAB: Laboratory

## MSY 225 (3 credit hours)

### Brick Construction

Covers the application of laying brick to a line overhand, laying a rowlock course, and making weep holes. Emphasizes tying intersecting walls with masonry ties and construction cavity walls and planters. Laboratory: 3.0 credits (90 contact hours).

**Pre-requisite:** MSY 205 with a grade of "C" or higher or Consent of Instructor.

**Attributes:** Technical

**Components:** LAB: Laboratory

## MSY 235 (3 credit hours)

### Special Techniques in Brick Construction

Provides practice in constructing a variety of walls including arches. Laboratory: 3.0 credits (90 contact hours).

**Pre-requisite:** MSY 205 with a grade of "C" or higher or Consent of Instructor.

**Attributes:** Technical

**Components:** LAB: Laboratory

## MSY 245 (3 credit hours)

### Anchors and Reinforcement

Presents different types of reinforcement used in masonry units such as installing wall ties and reinforcing wire, tying intersecting walls with metal ties, installing masonry anchor bolts, setting and anchoring door and window frames, and setting steel lintels and bearing plates. Covers the installation of dovetail ties to concrete, setting preformed masonry lintels, and laying of paving brick in a herringbone pattern. Laboratory: 3.0 credits (90 contact hours).

**Pre-requisite:** MSY 105 with a grade of "C" or higher or Consent of Instructor.

**Attributes:** Technical

**Components:** LAB: Laboratory

## MSY 251 (3 credit hours)

### Concrete Finishing

Focuses on theory and techniques inherent in the art of concrete finishing. Laboratory: 3.0 credits (90 contact hours).

**Attributes:** Technical

**Components:** LAB: Laboratory

## MSY 253 (3 credit hours)

### Masonry Floors and Steps

Provides students with the opportunity to lay paving brick, steps, and flagstone floors including laying different types of patterns. Laboratory: 3.0 credits (90 contact hours).

**Attributes:** Technical

**Components:** LAB: Laboratory

**MSY 255 (3 credit hours)**

**Glass Blocks and Tile**

Provides students with the opportunity to lay structural clay tile, glazed tile, glass block, and set coping tile. Laboratory: 3.0 credits (90 contact hours).

**Attributes:** Technical

**Components:** LAB: Laboratory

**MSY 257 (3 credit hours)**

**Stone**

Includes identifying the types of stone and the different types of bonds used in stone masonry. Laboratory: 3.0 credits (90 contact hours).

**Pre-requisite:** MSY 105 with a grade of "C" or higher or Consent of Instructor.

**Attributes:** Technical

**Components:** LAB: Laboratory

**MSY 275 (3 credit hours)**

**Fireplace Construction**

Presents different types and styles of indoor and outdoor fireplaces, and the principles of layout, drafting and drawing a fireplace. Includes finishing dimensions of fireplace opening, firebox layout, setting the flue lining, and applying a chimney cap. Laboratory: 3.0 credits (90 contact hours).

**Pre-requisite:** MSY 205 with a grade of C or higher or Consent of Instructor.

**Attributes:** Technical

**Components:** LAB: Laboratory

**MSY 291 (1-3 credit hours)**

**Masonry Applications**

Provides students with additional opportunity to refine skills. Lab: 1.0 - 3.0 credits (45-135 contact hours).

**Attributes:** Technical

**Components:** LAB: Laboratory

**MSY 298 (3 credit hours)**

**Practicum II**

Provides additional supervised on-the-job work experience related to the student's educational objectives. Students participating in the Practicum do not receive compensation. Practicum: 3.0 credits (90 contact hours).

**Pre-requisite:** Consent of Instructor.

**Attributes:** Technical

**Components:** PCM: Practicum

**MSY 299 (3 credit hours)**

**Cooperative Education II**

Provides additional supervised on-the-job work experience related to the student's educational objectives. Students participating in the Co-op Education program receive compensation for their work. Co-op: 3.0 credits (90 contact hours).

**Pre-requisite:** Consent of Instructor.

**Attributes:** Technical

**Components:** COP: Co-op