



James Rumsey Technical Institute
3974 Hedgesville Rd.
Martinsburg, WV 25403
304-754-7925

WVIES 1846-1847 Masonry 1&2
COURSE SYLLABUS
2023-2024

Instructor: Mr. John Lockhart

Term: 1st / 2nd Semester 2022-2023

Office: JRTI Room C-11

Class Location: JRTI Room C-11

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Office Hours: Monday through Friday 10:15 – 11:00 AM, and 2:30 – 3:00 PM.

Request for meetings other than these times must be in writing at least ten days prior to the requested date.

I. Course Description

The Masonry Program will create an awareness of opportunities within the vast trade areas that comprise the Masonry Construction Industry. The program incorporates new developments and practices related to masonry installation in residential and commercial construction.

This program is set up as a two-year program. The training in this course will prepare a student for entry level employment in the masonry field. A student enrolled in the masonry program will be exposed to such areas as tool, job and personal safety, mortar composition (mixing and spreading), blueprint reading, job layout, and masonry construction using brick, block, stone, and concrete. This will be accomplished through class assignments, lab participation, discussion and practical application of skills learned in the major units of study.

II. Course Overview

Masonry Brick and Block Construction

1846 & 1847 Masonry I & II

These courses introduce the student to the knowledge base and technical skills of the Masonry industry. The students will receive training in the following areas.

- Introduction to Masonry
- Masonry as a Career
- Safety for Masons
- Basic Brick Positions
- Brick Pattern Bonds

- Masonry Hand Tools
- Masonry Construction Equipment
- Laying Brick to the Line
- Constructing Brick Leads
- Masonry Spacing Scales
- Masonry Mortars
- Concrete Masonry Units
- Laying Block to the Line
- Constructing Block Leads
- Estimating Masonry Costs
- Residential Foundations
- Constructing Water-Resistant Brick Veneer Walls
- Anchored Brick Veneer Walls
- Composite and Cavity Walls
- Brick Paving
- Steps, Stoops, and Porches
- Piers, Columns, Pilasters, and Chases
- Appliance Chimneys
- Masonry Fireplaces
- Brick Masonry Arches
- Cleaning Brick and Concrete Masonry
- Working Drawings and Specifications

In addition to the above area of instruction, students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students will also be required to complete OSHA 10 training. As well as electives in Concrete Finishing and Decorative Masonry Work. Teachers provide each student with real world learning opportunities and instruction. Students are encouraged to become an active member of the student organization, WV SkillsUSA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and content standards and objectives.

III. Course Requirements

Assignments: During the school year, periodic literacy and math assignments will be assigned during the class period or as homework and must be submitted on their associated due date. Students that turn in late assignments will have 10 points deducted for each day assignment is late.

Quizzes: Brief ten (10) minute announced multiple-choice quizzes can be given at the end of a class on any topics in any lecture (regular or guest) covered and any reading material assigned up to the time the quiz is administered.

Examinations/Lab exercises: Each student will be responsible for completing a written and/or performance examination at the completion of each module.

IV. Course Grading

The grading scale stated by West Virginia Department of Education is as follows:

90-100%	A
80-90%	B
70-80%	C
60-70%	D
0-60%	F

Grading Scale (%) Interpretation

A = 90-100%: Excellent, exceeds average understanding as evidenced in course work and goes well beyond the basics.

B = 80-90%: Far above average, fully meets average understanding as evidenced in course work and fully understands the basics and can deal with concepts somewhat beyond that level.

C = 70-80%: Average, meets minimum expectations and satisfies course requirements

D = 60-70%: Below average, meets many minimum expectations and satisfies all or most course requirements.

F = 0-60%: Fails to meet minimum expectations in understanding and course work as evidenced by performance and submission of graded elements

Course Item Grade Percentage

Examinations and/or Labs 30%

Assignments and Participation 50%

Homework Assignments 10%

Quizzes 10%

V. Grading Objections

All objections to grades should be made IN WRITING WITHIN THREE (3) DAYS of the work in question. Objections made after this period has elapsed will NOT be considered – NO EXCEPTIONS.

VI. Course Topics

Brick Masonry, Block Masonry, Stone Masonry, Concrete Masonry, Ceramic and Stone Tile Masonry, Stucco, Punch out and Repair.

Units and Areas of Instruction:

Units and areas of instruction to be taught are subject to change at the discretion of the instructor. This class schedule may also be changed due to scheduled interruptions of class work by other school activities.

Class textbooks include- **Residential Construction Academy Masonry Brick and Block Construction, NCCER Masonry 1 and 2**

The amount and speed of work completed will set the pace of the class.

Instructional Procedures and Methods:

- Teacher and/or Student Lectures and Demonstrations
- Videos
- Chalkboard Illustrations
- Overhead Transparencies
- Student Lab Exercises

VII. Professionalism and Ethics

Per JRTI Masonry policy and plain classroom etiquette;

- Cell phones, etc. are not allowed and must be silenced during all classroom lectures.
- Academic dishonesty in any form will not be tolerated!!! Students caught cheating will receive a zero for the assigned work and a phone call home. Both the student who shares his work for an independent assignment and the person who copies it will suffer the same consequences. I expect you to do your own work and to be sure no one can copy it.
- Follow all shop safety rules
- Attend to personal needs before coming to class.
- Bring required materials every day unless you are otherwise directed.
- Use polite speech and body language.
- Follow directions the first time they are given.
- Show respect to each other
- Be prepared for class
- Keep tools clean and inventory items each use
- No sleeping
- No joking or horseplay during labs
- Clean your area

VIII. Students with Special Testing/Learning Needs

Students with special needs and require special accommodations must be registered with an I.E.P. or 504 plan. These students have a Support Services Coordinator to help coordinate their disability. The Support Services Coordinator will meet with the instructor to discuss the special needs of students as early as possible to benefit the learning process of the disabled student.

Make Up Work – Missing Assignments

It is the sole responsibility of the student to obtain and complete any work assignments missed due to his/her absence.

- If any tests are missed due to absence, they must be rescheduled upon the student's first day returning back to class.
- The student will have the same number of days missed to make up work provided they ask for their assignments their first day back after an excused absence.
- Any assignment not completed in that period will be recorded as a zero.

IX. Class Attendance and Participation

- Regular class attendance is strongly advised and is necessary for students to fully grasp many of the course concepts.
- Please be on time to class.
- If you miss a class, it will be your responsibility to find out the materials that were covered.

• Students in attendance are expected to be active participants in the course. This participation includes:

- contributing to class discussions
- providing insight into the class discussion topics
- raising questions
- participating in lab exercises and completing assigned work