

# Hagerstown Community College Master Syllabus

## INT 106 - Welding

### Course Information

Course #: Course Title INT 106 WELDING

3 Credits

Semester Year Fall 2018

### Instructor Information

Instructor: Jonas Smith

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Stephen Slavick

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### Course Description

This is a basic welding class. No welding experience is necessary. Oxyacetylene (welding and cutting), arc welding and soldering and brazing are explored with hands-on training provided. Students work on class competencies, at their own pace, beginning with safety practices and set-up in each area. Total of 45 hours of lecture. Course fee required.

### Textbook and Course Materials

Welding Principles and Applications Seventh Edition; Larry Jeffus

ISBN: 13:978-1-4180-5275-1

### Student Learning Outcomes

On successful completion of this course, students should be able to:

- Describe weld shop safety practices and procedures
- Recognize and set up welding and cutting equipment
- Recognize and understand industry welding terminology
- Understand the differences in welding with each type of current on relationship to the welding process
- On an entry level be able to torch cut, plasma cut, and weld common metals using oxy-fuel, AC/DC arc, MIG and TIG welding equipment
- Recognize signs and causes of weld joint failure

### Course Content Objectives

- Identify welding symbols
- Identify and select measuring instruments and tools for fabricating projects
- Recognize correct layout and fabrication terminology
- Identify structural shapes and materials
- Complete a fabrication project

### Definition of Credit Hour: Classroom Courses

To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours

(45 fifty-minute academic hours) of coursework per semester. Those hours of coursework may be completed through a combination of hours in the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit. For most classes, students should expect to complete at least 2 hours of coursework outside of class for each hour of in-class coursework.

Classwork type	Direct Faculty Instruction In-class <b>37.5 hours required</b>	Student Work Out of Classroom <b>75 hours required</b>
In-class lecture and discussion	30	0
Reading	0	15
Study of Manuals for Hands-on Activities	0	15
Chapter Review Questions and Answers	0	30
Research Assignments	0	15
Lab Work	7.5	0
<b>Total</b>	<b>37.5 hours</b>	<b>75 hours</b>

**Services for students with disabilities:** Students may receive reasonable accommodations if they have a diagnosed disability and present appropriate documentation. Students seeking accommodations are required to contact the Disability Support Services (DSS) office as early as possible. Students may contact a DSS staff member for an appointment at [dss@hagerstowncc.edu](mailto:dss@hagerstowncc.edu) or at 240-500-2530.