



## MASTER COURSE OUTLINE

A. AUTO 1207 Automotive Welding

B. COURSE DESCRIPTION:

This course provides the entry level automotive welding knowledge and skills needed by a professional automotive technician. The student's ability to follow instructions and interpret measurements, will be developed. The course emphasizes following safe practices, including the safe use of welding equipment and the proper selection and use of suitable personal protective equipment.

**(2 Cr – 1 lect, 1 lab)**

C. **\*\*Core Theme: Critical Thinking**

D. MAJOR CONTENT AREAS:

- Tool, equipment and welding safety
- Basic metallurgy
- Introduction to welding
- Common welding processes, Mig, Stick and Oxy Acetylene

E. GOAL TYPE, OBJECTIVES, AND OUTCOMES:

<u>GOAL TYPE</u>	<u>OBJECTIVES</u>	<u>OUTCOMES</u>
<b>**Critical Thinking</b>	Students will be able to gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected.	1. perform various different weld joints to make different components.
<u>CS</u>	gain a fundamental understanding of welding equipment use and techniques.	1. weld various joint configurations using different welding processes.
<u>CS</u>	identify power sources and gas pressures for the different processes.	1. complete a process from start to finish using various types of equipment.
<u>CS</u>	identify safety guidelines.	1. demonstrate safety procedures daily.

F. SPECIAL INFORMATION:

This course may require the use of the Internet, the submission of electronically prepared documents. Students that have a disability and need accommodations should contact the instructor or the Student Success Center at the beginning of the semester. This information will be available in alternative format such as large print, or current media upon request. The students will need welding gloves, welding jacket and an auto-darkening helmet.

G. COURSE CODING INFORMATION: Course Code S/Class Maximum 25; Letter Grade

Revision date:

AASC Approval date: 11/21/17

<b>*Riverland Community College Disciplines</b>	<b>MnTC Goal Number</b>
Communication (CM)	<b>1</b>
Natural Sciences (NS)	<b>3</b>
Mathematics/Logical Reasoning (MA)	<b>4</b>
History and the Social & Behavioral Sciences (SS)	<b>5</b>
Humanities and Fine Arts (HU)	<b>6</b>

<b>**Riverland Community College Core Themes</b>	<b>MnTC Goal Number</b>
Critical Thinking (CT)	<b>2</b>
Human Diversity (HD)	<b>7</b>
Global Perspective (GP)	<b>8</b>
Ethical and Civic Responsibility (EC)	<b>9</b>
People and the Environment (PE)	<b>10</b>

\*These five MnTC Goals have been identified as Riverland Community College Disciplines.

\*\* These five MnTC Goals have been identified as Riverland Community College Core Themes.

NOTE: The Minnesota Transfer Curriculum “10 Goal Areas of Emphasis” are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.