WASHTENAW COMMUNITY COLLEGE
COURSE-SYLLABUS APPROVAL FORM (CSAF)

APP 241

SECTION I. SUBMISSION INFORMATION

1. Course:
Discipline/No: APP 241 **Title:** Welding and Brazing **Start Term** W03

Division Code: HAT Department Code: CIND Org #: 14725 Don't publish: ☒ in College Catalog ☒ in Time Schedule ☒ on Web Page

2. Type of Approval:
- ☒ Full Approval
- ☐ Conditional Approval

☐ This proposal previously received conditional approval for the term:_____

3. Reason for Submission: This Course is being submitted for: (check all that apply)
- ☐ New Course Approval
- ☒ Five-year Syllabus Review ☐ No changes to course
- ☒ Major Change(s)
- ☐ Minor Change(s)*
- ☐ Reactivation of Inactive Course
- ☐ Inactivation

*If requesting a change to a course that has conditional approval, please submit a complete syllabus.

4. Change Information:

Minor Changes
- ☐ Course Discipline/Number (was _____)
- ☐ Course Title (was _____)
- ☐ Course Description
- ☐ Class Capacity (was: ____)
- ☐ Pre or Co-requisites
- ☐ Course Objectives (minor changes)
- ☐ Distribution of Contact Hours (contact hours were: lect: _____ lab _____ clin _____ other _____)
- ☐ Other _____

Major Changes
- ☒ Credit hours (credits were: 04)
- ☐ Change in Grading Method
- ☐ Total Contact Hours (total contact hours were: _____)
- ☐ Approval for offering an Honors Section
- ☐ Approval for offering Distance Learning Sections
- ☐ General Education Distribution Course: Add ☐ Remove ☐
- ☐ Pre or Co-requisites (that affect other departments)

5. Rationale Changes are are being made in response to data from Assessment: yes ☐ no ☐

Align credit hours with local 190 third party billing and payment requirements.

SECTION II. SIGNATURES

1. Department Review

Will any new resources be required? No, none anticipated ☒ Yes ☐
You must consult all departments that may be affected by this course. List departments contacted below and attach relevant documents.

Does the department support approval of this course? ☒ yes ☐ no

Print: Scott Klapper Faculty/Preparer Signature Scott Klapper Date: 10-17-02

Print: Scott Klapper Department Chair Signature Scott Klapper Date: 10-17-02

2. Division Review

Is this a curricular priority for your division? ☒ yes ☐ no (Comment _____)
What is the estimated enrollment? _____

Recommendation ☒ Yes ☐ No _____ Dean's Signature Date 10/17/02

3. Curriculum Committee Review

Recommendation ☒ Yes ☐ No Ruth A. Hatcher Curriculum Committee Chair's Signature 3.20.03 Date

4. Vice President for Instruction and Student Services Approval

Approval ☒ Yes ☐ No _____ Executive Vice President's Signature 11/6/03 Date

ACS Code _____ **Entered in Banner** 11/7 **Entered in Access** 11/7 **Log File** 11/6

Approved for General Education Area/Group _____ **Syllabus Date** 2003

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SECTION III. COURSE SYLLABUS
A. COURSE DETAILS

Discipline & No.: APP 241 **Title:** Welding and Brazing

1. Description:

This course will demonstrate setting up a welder properly, selecting proper welding rods, and give students the knowledge on welding different materials. The students will learn welder safety, wleder maintenance, knowledge for different arc welds, how to check welds, practices and show students how to successfully complete a welding project.

2. Credit Hours: 03
If Variable credit, Give Range: ____ to ____ credits
If repeatable for credit, how many times ____

3. Contact Hours per Semester:
Lecture: 30
Lab: 30
Clinical: ____
Other: ____ ____
Total Contact Hours: 60

4. Class Capacity: 24

5. Course Options:
☐ Distance learning
☐ Honors
☐ P/NP Grading

6. Prerequisite(s)

and/or	"("	Course	Min Grade	*Concurrent Enrollment	Test Name	Min. Score	")"	**Level I	**Level II
		APP 111		☐				☐	☐
☐	☐	APP 112		☐				☐	☐
☐	☐	APP 113		☐				☐	☐
☐	☐			☐				☐	☐
☐	☐			☐				☐	☐
☐	☐			☐				☐	☐
☐	☐			☐				☐	☐
☐	☐			☐				☐	☐

Other Prerequisites

Consent Required ☐

7. Corequisites:

8. Course Purpose:
☒ Program Requirement
☐ General Education
☐ Program Support
☐ Basic Skills/Developmental
☐ Transfer
☐ Industry/Professional Dev
☐ Enrichment

If a program requirement, specify the program(s)
Local 190 apprentice program

Please send syllabus for Transfer evaluation to:
☐ EMU
☐ UM

Accepted for transfer:
☐ EMU
☐ UM

9. Terms Course will be offered:

Terms	Session Length (e.g. 15 weeks, 1st 7½ weeks, etc.)	Day	Eve	Even years only	Odd years only
☒ Fall	15 weeks	☐	☒	☐	☐
☒ Winter	15 weeks	☐	☒	☐	☐
☒ Spr/Summer	15 weeks	☐	☒	☐	☐

B. MAJOR INSTRUCTIONAL UNITS

1. Welding I
2. Oxy Acetylene cutting
3. Brazing

C. INSTRUCTIONAL OBJECTIVES

Unit #1 Welding I
The student will:

1. Demonstrate an understanding of shielding metal arc welding
2. Describe different welding rods and their applications
3. Describe plate welding in various positions
4. Recognize problems that occur while welding
5. Describe the use of the proper clothing and safety equipment.

Unit # 2 Oxy Acetylene cutting
The student will:

1. Demonstrate how to set up cutting torch
2. Demonstrate proper care of cutting equipment
3. Demonstrate proper methods of cutting pipe & plate
4. Demonstrate how to cut square & bevel cut

Unit # 3 Brazing
The student will:

1. Demonstrate the proper techniques of brazing

2. Texts:

Title: UA materials provided by Local 190
Author: United Association Copyright Yr:
Publisher: Est. Cost:

Title:
Author: Copyright Yr:
Publisher: Est. Cost:

Title:
Author: Copyright Yr:
Publisher: Est. Cost:

Title:
Author: Copyright Yr:
Publisher: Est. Cost:

Additional Texts:

3. Supplies and/or Uniforms students will have to Acquire: (e.g. calculators, uniforms, tools, etc.)

Descriptions	**Cost Estimates**

4. Reference Materials that will be used: (e.g. journals, books, manuals, maps, LRC reserves, etc.)

Title/Name	**Location**

5. Computer Software that will be used:

Title/Name	**Location**

6. Audio/Visual Materials that will be used: (e.g. films, video tapes, slides, audio tapes, CDs, etc.)

Title/Name	**Location**