

WASHTENAW COMMUNITY COLLEGE
 COURSE/SYLLABUS APPROVAL FORM (CSAF)

For help screens, select a field and press F1

SECTION I. COURSE SUBMISSION INFORMATION

1. **Course:** (For an existing course enter the existing discipline, number, and title. For a new course enter the proposed number & title.)
Discipline/No: APP 121 **Title:** Welding I

Division Code: TEC Department Code: TEC Requested Start Term: F 9/2

2. **Type of Approval:** (applies to both new courses and changes)
 Full Approval
 Conditional Approval
 This proposal has received conditional approval previously.
 Term Offered: _____

3. **Reason for Submission:** This Course is being submitted for: (check all that apply)
 New Course Approval (Skip the rest of Section I and go directly to Section II.)
 Five-year Syllabus Review No changes to course
 Major Change(s)
 Minor Change(s) (If not due for review, submit sections I, II, and revised parts of Section III.)
 Reactivation of Inactive Course
 Termination (Submit Sections I and II only.)

4. **Change Information:** (Check all that apply. Make proposed changes in Section III, Course Syllabus.)

<p>Minor Changes</p> <input checked="" type="checkbox"/> Course Title <input checked="" type="checkbox"/> Course Description <input checked="" type="checkbox"/> Course Discipline/Number <input type="checkbox"/> Capacity (capacity was: _____) <input type="checkbox"/> Pre or Corequisites within Department <input type="checkbox"/> Course Objectives (minor changes) <input type="checkbox"/> Distribution of Contact Hours (contact hours were: lect: _____ lab _____ clin _____ exp _____) <input type="checkbox"/> Distance Learning - minor (Attach Preliminary Approval Form for Distance Learning & the Section Handout.) <input type="checkbox"/> Other _____	<p>Major Changes (Major changes will be reviewed by Curriculum Committee.)</p> <input type="checkbox"/> Credit hours (credits were: _____) <input type="checkbox"/> Core Element Approval <input type="checkbox"/> first time <input type="checkbox"/> add additional elements <input type="checkbox"/> Core Element Removal (Elements to be removed _____) <input type="checkbox"/> Grading <input type="checkbox"/> Pre or Corequisites outside Department <input type="checkbox"/> Course Objectives (major changes) <input type="checkbox"/> Total Contact Hours (total contact hours were: _____) <input type="checkbox"/> Honors (Complete Part G of Section III, Honors Addendum.) <input type="checkbox"/> Distance Learning - major (Attach Preliminary Approval Form for Distance Learning & the Student Handout for the Distance Section.) <input type="checkbox"/> Other _____
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5. **Rationale for changes:**
 The change is being made to meet the needs of our Plumbers and Pipefitters Local 190 apprentice program.

SECTION II. COURSE REVIEW INFORMATION AND SIGNATURES

1. **Department Review** (To be completed by department chair; if recommendation is no, initial and return to preparer with rationale attached.)
 Will additional resources be required? yes no (If yes, explain _____)
 Have departments which may be affected by this course been consulted? yes no (Explain None effected _____)
 Does the department support approval of this course? yes no

Print: Patricia Stegall/ Scott Klapper Signature: _____ Date: _____
 Faculty/Preparer

Print: Les Pierce Signature: _____ Date: _____
 Department Chair

2. **Division Review** (To be completed by division dean; if recommendation is no, initial and return with rationale attached.)
 If additional resources are needed, have they been secured? yes no No new resources are needed.
 Is this a curricular priority for your division? yes no (Comment _____)
 What is your estimate of projected enrollment? 45

Recommendation Yes No
 Division Dean's Signature: _____ Date: 8/10/97

3. **Curriculum Committee Review** (Attach additional comments if necessary.)
 Recommendation Yes No
 Curriculum Committee Chair's Signature: _____ Date: 12/12/97

4. **Vice President for Instruction and Student Services Approval** (Attach additional comments if necessary.)
 Recommendation Yes No
 Vice President's Signature: _____ Date: _____

Data File: 1-16-98 ACS Code: _____ Catalog File Date: 1-22-98 CIF File Date: _____
 Core Elements Approved: NONE New Syllabus Date: _____

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SECTION III. COURSE SYLLABUS

For help screens, select a field and press F1.

A. COURSE DETAILS

1. Course Discipline & No.: APP 121		2. Course Title: Welding I	
3. Course Description: This course presents techniques of shielded metal and arc welding. Applications of various welding rods will be demonstrated, and students will learn to plate weld in various positions and to recognize problems that occur while welding. Students will learn the proper use of clothing and safety equipment.			
4. Credit Hours: 4 If Variable credit, Give Range: _____ to _____ If repeatable for credit, how many times? _____		5. Class Capacity: _____ (If nonstandard, attach Class Capacity Exception form.)	
6. Course Options: <input type="checkbox"/> Distance learning (Attach preliminary distance approval form and Section Handout.) <input type="checkbox"/> Honors (Complete Part G.) <input type="checkbox"/> P/NP Grading (Attach rationale.)			
7. Contact Hours per Semester in: Lecture: 1 Lab: 3 Clinical: _____ Experiential: _____ Total Contact Hrs: 60		8. Prerequisite(s): APP 111, 112, 113	
9. Corequisite(s): (limit to 2) NONE			
10. a. Course Purpose: <input checked="" type="checkbox"/> Program Specialty <input type="checkbox"/> Program Support <input type="checkbox"/> Nonprogram Specialty <input type="checkbox"/> Transfer <input type="checkbox"/> Enrichment <input type="checkbox"/> Basic Skills		b. Is this course a requirement for a program? <input checked="" type="checkbox"/> Yes (specify the program(s) below) Local 190 apprentice program <input type="checkbox"/> No	
c. Indicate schools to which you want Curriculum Services to send syllabus: (If transfer is approved, attach documentation.) <input type="checkbox"/> EMU <input type="checkbox"/> UofM <input type="checkbox"/> Other _____			

B. MAJOR INSTRUCTIONAL UNITS A major instructional unit is a grouping of topics which naturally relate to one another. List in order the major instructional units. Add additional numbers as needed.

1. Welding I
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

C. CORE ELEMENT INFORMATION**1. Core Element Submission Information:** (Please check all that apply)

- This course has been previously approved for core elements. List approved core elements: _____
- Please review this course for core elements marked in part 2 below.
- This course does not meet any core elements. Explain _____ (Go to SECTION D)

2. Proposed Core Element(s): (Mark the boxes of only the elements to be reviewed at this time. For detailed information on the criteria for determining whether a course meets a core element, refer to the Core Element Annotations in the Curriculum Manual.)

- | | |
|---|--|
| <input type="checkbox"/> 1. To read and listen in a critical and perceptive way; to speak in an organized, clear, and effective manner. | <input type="checkbox"/> 14. To be aware of the nature and variety of the human experience through the methods and applications of the humanities |
| <input type="checkbox"/> 2. To use information sources and information gathering techniques; to cite sources when producing written communications. | <input type="checkbox"/> 15. To understand the basic principles of scientific inquiry. |
| <input type="checkbox"/> 3. To develop, organize, and express thoughts in writing using standard English. | <input type="checkbox"/> 16. To have a knowledge of basic human biological principles, including those related to wellness. |
| <input type="checkbox"/> 4. To apply basic mathematics through the level of elementary algebra. | <input type="checkbox"/> 17. To understand the basic principles of the natural sciences, and their relationship to the environment. |
| <input type="checkbox"/> 5. To represent and solve problems using mathematical techniques. | <input type="checkbox"/> 18. To understand the basic principles and applications of technology. |
| <input type="checkbox"/> 6. To interpret elementary descriptive statistics. | <input type="checkbox"/> 19. To understand the principle of integrating technological elements into systems. |
| <input type="checkbox"/> 7. To comprehend and use concepts and ideas. | <input type="checkbox"/> 20. To understand the relationship of technology to individuals, society, and the environment. |
| <input type="checkbox"/> 8. To develop, express, test, and evaluate ideas. | <input type="checkbox"/> 21. To understand the methods and applications of the social sciences in exploring the dynamics of human behavior. |
| <input type="checkbox"/> 9. To analyze problems, develop solutions, and evaluate results in a clear, logical, and consistent manner. | <input type="checkbox"/> 22. To understand those principles and values, including individual rights and civic responsibilities, which maintain and enhance democracy and freedom in a pluralistic society. |
| <input type="checkbox"/> 10. To distinguish between fact and opinion; to recognize biases and fallacies in reasoning. | <input type="checkbox"/> 23. To have a working knowledge of the history, structure, and function of American social, political, and economic institutions. |
| <input type="checkbox"/> 11. To use computer systems to achieve professional, educational, and personal objectives. | <input type="checkbox"/> 24. To be aware of the contemporary global community, especially its geographical, cultural, economic, and historical dimensions |
| <input type="checkbox"/> 12. To apply the protocols of computer use and respect the legal and other rights of individuals or organizations. | |
| <input type="checkbox"/> 13. To be aware of the artistic experience in personal and cultural enrichment, growth, and communication. | |

DIRECTIONS: Each core element marked above must be included in the appropriate core element boxes next to the course objectives in SECTION D which directly support that core element.

3. Courses That Partially Satisfy A Core Element In Combination With Other Courses:

- If this course is part of a combination of courses that together meet a core element, mark this box. The courses must all be submitted and reviewed together for core element approval.

Other course(s) required _____

Dean's Comments:

Curriculum Committee's Comments:

Vice President's Comments:

D. INSTRUCTIONAL OBJECTIVES AND CORE ELEMENTS SUPPORTED

DIRECTIONS: Use student outcome based language. (Example: The student will develop and support a thesis in an essay.) If the objective is being used to directly support a core element, write the core element number in the box to the right. If needed, additional information on how the core element is to be met and/or assessed for accomplishment can be included under the objective. If desired you may add a section of "overall course objectives" which are not associated with a specific unit. This may be particularly helpful for addressing core elements.

Unit Objectives**Core Elements****Unit #1 Welding I**

- | | | |
|-----|---|----------------------|
| # 1 | The student will demonstrate how to set up a cutting torch. | <input type="text"/> |
| # 2 | The student will demonstrate the proper care of cutting equipment. | <input type="text"/> |
| # 3 | The student will demonstrate proper methods of cutting pipe and plate. | <input type="text"/> |
| # 4 | The student will demonstrate how to square cut and bevel cut. | |
| # 5 | The student will demonstrate shielded metal arc welding. | |
| # 6 | The student will explain different welding rods and their applications. | |
| # 7 | The student will demonstrate plate welding in various positions. | |
| # 8 | The student will explain problems that occur while welding. | |
| # 9 | The student will explain the use of proper clothing and safety equipment. | |

Unit #2

- | | | |
|-----|--|----------------------|
| # 1 | | <input type="text"/> |
| # 2 | | <input type="text"/> |
| # 3 | | <input type="text"/> |

E. INSTRUCTIONAL METHODS AND EVALUATION**1. Instructional Methods:** (Check the appropriate boxes and describe as needed.)

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> Lecture/Discussion | <input type="checkbox"/> Seminar | <input checked="" type="checkbox"/> Laboratory Assignments |
| <input type="checkbox"/> Clinical Instruction | <input type="checkbox"/> Team Assignments | <input type="checkbox"/> On-Site Work Experience |
| <input type="checkbox"/> Self-Paced Learning | <input type="checkbox"/> Telecourse | <input type="checkbox"/> Interactive TV |
| <input type="checkbox"/> Internet Instruction | <input type="checkbox"/> Video Seminar | <input type="checkbox"/> Computer Simulations |
| <input type="checkbox"/> Field Trips | <input type="checkbox"/> | <input type="checkbox"/> Other |

2. Evaluation Criteria:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Attendance _____ | <input checked="" type="checkbox"/> Quizzes _____ |
| <input checked="" type="checkbox"/> Class Discussion _____ | <input checked="" type="checkbox"/> Tests _____ |
| <input checked="" type="checkbox"/> Papers _____ | <input type="checkbox"/> Midterm _____ |
| <input type="checkbox"/> Portfolio _____ | <input checked="" type="checkbox"/> Final Exam _____ |
| <input type="checkbox"/> Projects _____ | <input type="checkbox"/> Home Work _____ |
| <input type="checkbox"/> Reports _____ | <input type="checkbox"/> Presentations _____ |
| <input type="checkbox"/> Clinical/Work _____ | <input type="checkbox"/> Other (Auditions, etc.) _____ |
| <input type="checkbox"/> Performances _____ | |

3. Attendance Requirements: (For Certification or nonevaluative purposes.)

F. EQUIPMENT, FACILITIES, TEXTS, MATERIALS, AND SUPPLIES**1. Special Equipment/Facilities :** (Check the appropriate boxes and describe as needed.)

- | | |
|---|--|
| <input type="checkbox"/> Lab equipment _____ | <input type="checkbox"/> Testing Center _____ |
| <input type="checkbox"/> LRC Reserves _____ | <input type="checkbox"/> Student Competitions _____ |
| <input type="checkbox"/> Computers _____ | <input type="checkbox"/> Off Campus Sites _____ |
| <input type="checkbox"/> CD ROM _____ | <input type="checkbox"/> Student Tutors _____ |
| <input type="checkbox"/> Field Trips _____ | <input type="checkbox"/> Distance Learning Classroom _____ |
| <input checked="" type="checkbox"/> Other _____ | Supplied by Local 190 _____ |

2. Primary Texts:

Title: Oxy-Fuel Cutting and Welding/Shielded Metal Arc Welding

Author: United Association of Plumbers and Pipefitters Copyright Yr: 1997

Publisher: United Association of Plumbers and Pipefitters Est. Cost: _____

Title: _____

Author: _____ Copyright Yr: _____

Publisher: _____ Est. Cost: _____

3. Supplemental Texts or Course Packs:

Title: N/A

Author: _____ Copyright Yr: _____

Publisher: _____ Est. Cost: _____

Title: _____

Author: _____ Copyright Yr: _____

Publisher: _____ Est. Cost: _____

4. Supplies and/or Uniforms Student will have to Own or Acquire for Course:

(e.g. calculators, uniforms, tools, and software, etc., excluding pen, paper, or textbooks.)

Descriptions	Cost Estimates
Supplied by Local 190	
_____	_____
_____	_____

5. Reference Materials Students will be Referred to Use:

(e.g. journals, books, manuals, maps, LRC reserves, etc.)

6. Audio/Visual and Computer Materials to be Used:

(e.g. films, video tapes, slides, audio tapes, software, CDs, etc.)

Title	Source
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

2. Primary Texts: (Please indicate if no text is required.)

Title: Oxy-Fuel Cutting and Welding/Shielded Metal Arc Welding

Author: United Association of Plumbers and Pipefitters Copyright Yr: 1997

Publisher: United Association of Plumbers and Pipefitters Est. Cost: _____

Title: _____

Author: _____ Copyright Yr: _____

Publisher: _____ Est. Cost: _____

3. Supplemental Texts or Course Packs:

Title: N/A

Author: _____ Copyright Yr: _____

Publisher: _____ Est. Cost: _____

Title: _____

Author: _____ Copyright Yr: _____

Publisher: _____ Est. Cost: _____

4. Supplies and/or Uniforms Student will have to Own or Acquire for Course:

(e.g. calculators, uniforms, tools, and software, etc., excluding pen, pencil, paper, or textbooks.)

Descriptions	Cost Estimates
Supplied by Local 190	
_____	_____
_____	_____

5. Reference Materials Students will be Referred to Use:

(e.g. journals, books, manuals, maps, LRC reserves, etc.)

6. Audio/Visual and Computer Materials to be Used:

(e.g. films, video tapes, slides, audio tapes, software, CDs, etc.)

Title	Source
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____