

APP 141

SECTION I. SUBMISSION INFORMATION

SECTION II. SIGNATURES

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**WASHTENAW COMMUNITY COLLEGE
COURSE-SYLLABUS APPROVAL FORM (CSAF)**

APP 141

SECTION III. COURSE SYLLABUS

For help screens press F1.

A. COURSE DETAILS (Start with #1.)

Discipline & No.: APP 141 **Title:** Advanced Drawing Special Inst

Course and title will automatically appear above upon saving or previewing

1. Description: (Please be brief. Explain acronyms if used.)

This course will enable students to understand and gain ability to draw isometric pipe drawings. This course will enable students to read detailed blue prints. This course will enable students to draw detailed drawings. This course will teach the students the reading and understanding of specifications. This course will give the students the basic understanding of estimating.

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
(If nonstandard, attach
Class Capacity
Exception form.)

5. Course Options:

- ☐ Distance learning
(Attach DL Form)
☐ Honors (Attach
Honors Addendum.)
☐ P/NP Grading

6. Prerequisite(s)

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

Other Prerequisites

Consent Required ☐

7. Corequisites: (limit of 2)

* Can take prerequisite before or concurrently with this course.

**Level I is enforced in Banner. Level II is enforced by instructor on 1st day of class.

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 apprenticeship program

**Please send syllabus for
Transfer evaluation to:**

- ☐ EMU
☐ UM
☐
☐
☐
☐

Accepted for transfer:
(attach documentation)

- ☐ EMU
☐ UM
☐
☐
☐
☐

9. Terms Course will be offered:

Terms **Session Length** (e.g. 15 weeks, 1st 7½ weeks, etc.)
☒ Fall 15 weeks
☒ Winter 15 weeks
☒ Spr/Summer 15 weeks

Day **Eve** **Even years only** **Odd years only**
☐ ☒ ☐ ☐
☐ ☒ ☐ ☐
☐ ☒ ☐ ☐

B. MAJOR INSTRUCTIONAL UNITS

A major instructional unit is a grouping of topics that naturally relate to one another. Add additional numbers as needed. (This section is unprotected so that you can cut and paste from other documents.)

1. Advanced pipe drafting

**WASHTENAW COMMUNITY COLLEGE
COURSE/SYLLABUS APPROVAL FORM (CSAF)**

APP 141

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: <u>APP 141</u> Title: <u>Advanced Pipe Fitting</u>				
Division Code: <u>TEC</u>	Department Code: <u>TEC</u>	Requested Start Term: <u>Winter 98</u>		
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 <u>not</u> 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.)				
<table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> Minor Changes ☐ Course Discipline/Number ☐ Course Title ☐ Course Description ☐ Capacity (capacity was: _____) ☐ Pre or Corequisites within Department ☐ Course Objectives (minor changes) ☐ Distribution of Contact Hours (contact hours were: lect: _____ lab: _____ clin: _____ exp: _____) ☐ Distance Learning - minor (Attach Preliminary Approval Form for Distance Learning & the Section Handout.) ☐ Other _____ </td> <td style="width: 50%; vertical-align: top;"> Major Changes (Major changes will be reviewed by Curriculum Committee.) ☐ Credit hours (credits were: _____) ☐ Core Element Approval ☐ first time ☐ add additional elements ☐ Core Element Removal (Elements to be removed _____) ☐ Grading ☐ Pre or Corequisites outside Department ☐ Course Objectives (major changes) ☐ Total Contact Hours (total contact hours were: _____) ☐ Honors (Complete Part G of Section III, Honors Addendum.) ☐ Distance Learning - major (Attach Preliminary Approval Form for Distance Learning & the Student Handout for the Distance Section.) ☐ Other _____ </td> </tr> </table>			Minor Changes ☐ Course Discipline/Number ☐ Course Title ☐ Course Description ☐ Capacity (capacity was: _____) ☐ Pre or Corequisites within Department ☐ Course Objectives (minor changes) ☐ Distribution of Contact Hours (contact hours were: lect: _____ lab: _____ clin: _____ exp: _____) ☐ Distance Learning - minor (Attach Preliminary Approval Form for Distance Learning & the Section Handout.) ☐ Other _____	Major Changes (Major changes will be reviewed by Curriculum Committee.) ☐ Credit hours (credits were: _____) ☐ Core Element Approval ☐ first time ☐ add additional elements ☐ Core Element Removal (Elements to be removed _____) ☐ Grading ☐ Pre or Corequisites outside Department ☐ Course Objectives (major changes) ☐ Total Contact Hours (total contact hours were: _____) ☐ Honors (Complete Part G of Section III, Honors Addendum.) ☐ Distance Learning - major (Attach Preliminary Approval Form for Distance Learning & the Student Handout for the Distance Section.) ☐ Other _____
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5. Rationale for changes:
 Part of Local 190 apprenticeship 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 _____) Does the department support approval of this course? ☒ yes ☐ no <table style="width: 100%;"> <tr> <td style="width: 33%;">Print: <u>Patricia Stegall</u></td> <td style="width: 33%;">Signature: <u>[Signature]</u></td> <td style="width: 33%;">Date: <u>11/24/97</u></td> </tr> <tr> <td style="text-align: center;">Faculty/Preparer</td> <td></td> <td></td> </tr> <tr> <td>Print: <u>Les Pierce</u></td> <td>Signature: <u>[Signature]</u></td> <td>Date: <u>11/24/97</u></td> </tr> <tr> <td style="text-align: center;">Department Chair</td> <td></td> <td></td> </tr> </table>				Print: <u>Patricia Stegall</u>	Signature: <u>[Signature]</u>	Date: <u>11/24/97</u>	Faculty/Preparer			Print: <u>Les Pierce</u>	Signature: <u>[Signature]</u>	Date: <u>11/24/97</u>	Department Chair		
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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? <u>45</u> <table style="width: 100%;"> <tr> <td style="width: 33%;">Recommendation ☒ Yes ☐ No</td> <td style="width: 33%;">Division Dean's Signature: <u>[Signature]</u></td> <td style="width: 33%;">Date: <u>12/1/97</u></td> </tr> </table>				Recommendation ☒ Yes ☐ No	Division Dean's Signature: <u>[Signature]</u>	Date: <u>12/1/97</u>									
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4. Vice President for Instruction and Student Services Approval (Attach additional comments if necessary.) <table style="width: 100%;"> <tr> <td style="width: 33%;">Recommendation ☒ Yes ☐ No</td> <td style="width: 33%;">Vice President's Signature: <u>[Signature]</u></td> <td style="width: 33%;">Date: <u>11/24/97</u></td> </tr> </table>				Recommendation ☒ Yes ☐ No	Vice President's Signature: <u>[Signature]</u>	Date: <u>11/24/97</u>									
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**WASHTENAW COMMUNITY COLLEGE
COURSE/SYLLABUS APPROVAL FORM (CAF)**

APP 141

SECTION III. COURSE SYLLABUS

A. COURSE DETAILS

For help screens, select a field and press F1.

1. Course Discipline & No.: <u>APP 141</u>		2. Course Title: <u>Advanced Pipe Drafting</u>	
3. Course Description: In this course, students will learn to draw isometric pipe drawings and to read detailed blue prints. Students will learn to read and interpret specifications and gain a basic understanding of estimating.			
4. Credit Hours: <u>04</u> If Variable credit, Give Range: _____ to _____ If repeatable for credit, how many times? _____		5. Class Capacity: <u>30</u> (If nonstandard, attach Class Capacity Exception form.)	
7. Contact Hours per Semester in: Lecture: <u>1</u> Lab: <u>3</u> Clinical: _____ Experiential: _____ Total Contact Hrs: <u>60</u>		6. Course Options: ☐ Distance learning (Attach preliminary distance approval form and Section Handout.) ☐ Honors (Complete Part G.) ☐ P/NP Grading (Attach rationale.)	
10. a. Course Purpose: ☒ Program Specialty ☐ Program Support ☐ Nonprogram Specialty ☐ Transfer ☐ Enrichment ☐ Basic Skills		8. Prerequisite(s): <u>APP 111, 112, 113</u> _____ _____	
		9. Corequisite(s): (limit to 2) <u>NONE</u> _____	
		b. Is this course a requirement for a program? ☒ Yes (specify the program(s) below) <u>Local 190 apprentice program</u> ☐ No	
		c. Indicate schools to which you want Curriculum Services to send syllabus: (If transfer is approved, attach documentation.) ☐ EMU ☐ UofM ☐ 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. Advanced Pipe Drafting
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 Not requested by Local 190 (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.)

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

1 The student will explain isometric drawings.

2 The student will demonstrate complete detailing skills.

3 The student will demonstrate material take off skills.

4 The student will demonstrate material pricing skills.

5 The student will demonstrate labor estimating skills.

6 The student will demonstrate how to read specification book.

7 The student will describe what to look for in spec.'s

Unit #2

1

2

3

E. INSTRUCTIONAL METHODS AND EVALUATION

APP 141

1. Instructional Methods: (Check the appropriate boxes and describe as needed.)

- | | | |
|--|---|--|
| ☒ Lecture/Discussion | ☐ Seminar | ☒ Laboratory Assignments |
| ☐ Clinical Instruction | ☐ Team Assignments | ☐ On-Site Work Experience |
| ☐ Self-Paced Learning | ☐ Telecourse | ☐ Interactive TV |
| ☐ Internet Instruction | ☐ Video Seminar | ☐ Computer Simulations |
| ☐ Field Trips | ☐ | ☐ Other |

2. Evaluation Criteria:

- | | |
|--|--|
| ☒ Attendance _____ | ☒ Quizzes _____ |
| ☒ Class Discussion _____ | ☒ Tests _____ |
| ☐ Papers _____ | ☐ Midterm _____ |
| ☐ Portfolio _____ | ☒ Final Exam _____ |
| ☐ Projects _____ | ☒ Home Work _____ |
| ☐ Reports _____ | ☐ Presentations _____ |
| ☐ Clinical/Work _____ | ☐ Other (Auditions, etc.) _____ |
| ☐ 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.)

- | | |
|--|--|
| ☐ Lab equipment _____ | ☐ Testing Center _____ |
| ☐ LRC Reserves _____ | ☐ Student Competitions _____ |
| ☐ Computers _____ | ☐ Off Campus Sites _____ |
| ☐ CD ROM _____ | ☐ Student Tutors _____ |
| ☐ Field Trips _____ | ☐ Distance Learning Classroom _____ |
| ☒ Other <u>Supplied by Local 190</u> | |

2. Primary Texts:

Title: Advanced Plan Reading & Related Drawing Text
 Author: United Association of Plumbers and Pipefitters Copyright Yr: 1997
 Publisher: United Association of Plumbers and Pipefitters Est. Cost: _____

Title: Gas Installations
 Author: United Association of Plumbers and Pipefitters Copyright Yr: 1997
 Publisher: United Association of Plumbers and Pipefitters Est. Cost: _____

3. Supplemental Texts or Course Packs:

Title: _____
 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
N/A	_____	_____
	_____	_____
	_____	_____

5. Reference Materials Students will be Referred to Use:

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

N/A

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

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

Title	Source
N/A	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

2. Primary Texts: (Please indicate if no text is required.)Title: UA Material Supplied by Local 190

Author: _____ Copyright Yr: _____

Publisher: _____ Est. Cost: _____

Title: _____

Author: _____ Copyright Yr: _____

Publisher: _____ Est. Cost: _____

3. Supplemental Texts or Course Packs:

Title: _____

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
N/A		

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

N/A

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

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

	Title	Source
N/A		