



CREDIT COURSE OUTLINE

I. COVER PAGE

(1) MFGT 19V

(2) Cooperative Work Experience - Manufacturing Technology

(3) 1 – 8

| Number | Title | Units |
|--|---|-------|
| (4) Lecture / Lab Hours: | (8) Classification: | |
| Course Hours | | |
| Weekly Lec hours: 0 | Degree applicable: X | |
| Weekly Lab hours: 0 | Non-degree applicable: | |
| Total Contact hours: 0 | Basic skills: | |
| Lec will generate __ hour(s) outside work. | (9) RC Fulfills AS/AA degree requirement: (area) | |
| Lab will generate __ hour(s) outside work. | General education category: | |
| Work Experience units awarded as follows: 75 hours/unit paid employment or 60 hours/unit volunteer employment. | Major: | |
| | Certificate of: | |
| | Certificate in: | |
| (5) Grading Basis: | (10) CSU Baccalaureate: X | |
| Grading Scale Only | (11) Repeatable: (A course may be repeated three times) 1 | |
| Pass/No Pass option X | | |
| Pass/No Pass only | (12) C-ID: | |
| (6) Advisories: | Proposed Start Date: Fall 2012 | |
| (7) Pre-requisites (requires C grade or better): • Manufacturing Technology 62 or 82 Eligibility for English 252, 262 and Mathematics 256 | | |
| Corequisites: | | |

(12) Catalog Description:
Supervised employment, directly related to student's major. Students earn units using the following formula: for paid work, 75 hours = 1 unit; for volunteer work, 60 hours = 1 unit. Students may earn a total of 16 units in Work Experience of which only 6 may be in COTR 19G.

II. COURSE OUTCOMES:

(Specify the learning skills the student demonstrates through completing the course and link critical thinking skills to specific course content and objectives.)

Upon completion of this course, students will be able to:

- I. Work at an increased level of competency in thier field.

III. COURSE OBJECTIVES:

(Specify major objectives in terms of the observable knowledge and/or skills to be attained.)

In the process of completing this course, students will:

- I. Participate in work experience that leads to their career goal, under the expertise of a skilled supervisor.

IV. COURSE OUTLINE:

V. APPROPRIATE READINGS

Reading assignments may include but are not limited to the following:

- I. Sample Text Title:

- II. Other Readings

- Global or international materials or concepts are appropriately included in this course
- Multicultural materials and concepts are appropriately included in this course

If either line is checked, write a paragraph indicating specifically how global/international and/or multicultural materials and concepts relate to content outline and/or readings.

VI. METHODS TO MEASURE STUDENT ACHIEVEMENT AND DETERMINE GRADES:

Students in this course will be graded in at least one of the following four categories. Please check those appropriate. A degree applicable course must have a minimum of one response in category A, B, or C.

| | |
|---------------------------|--|
| A. Writing | |
| Check either 1 or 2 below | |
| | 1. Substantial writing assignments are required. Check the appropriate boxes below and provide a written description in the space provided. |
| X | 2. Substantial writing assignments are NOT required. If this box is checked leave this section blank. For degree applicable courses you must complete category B and/or C. |
| | a) essay exam(s) |
| | b) term or other paper(s) |
| | c) laboratory report(s) |
| | d) written homework |
| | e) reading reports |
| | f) other (specify) |

Required assignments may include but are not limited to the following:

| | |
|---|-----------------------|
| B. Problem Solving | |
| Computational or non-computational problem-solving demonstrations, including: | |
| | a) exam(s) |
| | b) quizzes |
| | c) homework problems |
| | d) laboratory reports |
| X | e) field work |
| | f) other (specify): |

Required assignments may include but are not limited to the following:

| | |
|--|-------------------------|
| C. Skill demonstrations, including: | |
| | a) class performance(s) |
| X | b) field work |
| | c) performance exams(s) |
| | d) other (specify) |

Required assignments may include but are not limited to the following:

| | |
|---|---------------------|
| D. Objective examinations including: | |
| | a) multiple choice |
| | b) true/false |
| | c) matching items |
| | d) completion |
| | e) other (specify): |

COURSE GRADE DETERMINATION:

Description/explanation: Based on the categories checked in A-D, it is the recommendation of the department that the instructor's grading methods fall within the following departmental guidelines; however, the final method of grading is still at the discretion of the individual instructor. The instructor's syllabus must reflect the criteria by which the student's grade has been determined. (A minimum of five (5) grades must be recorded on the final roster.)

If several methods to measure student achievement are used, indicate here the approximate weight or percentage each has in determining student final grades.

75 hours = 1 unit of credit

VII. EDUCATIONAL MATERIALS

For degree applicable courses, the adopted texts, as listed in the college bookstore, or instructor-prepared materials have been certified to contain college-level materials.

| | | |
|---|----------------------------|--------------|
| Validation Language Level (check where applicable): | College-Level Criteria Met | |
| | YES | NO |
| Textbook | _____ | <u> X </u> |
| Reference materials | _____ | <u> X </u> |
| Instructor-prepared materials | _____ | <u> X </u> |
| Audio-visual materials | _____ | <u> X </u> |

| | |
|--|-------|
| Indicate Method of evaluation: | |
| Used readability formulae (grade level 10 or higher) | _____ |
| Text is used in a college-level course | _____ |
| Used grading provided by publisher | _____ |
| Other: (please explain; relate to Skills Levels) | _____ |

| | | |
|---|-------|--------------|
| Computation Level (Eligible for MATH 101 level or higher where applicable) | _____ | <u> X </u> |
| Content | | |
| Breadth of ideas covered clearly meets college-level learning objectives of this course | _____ | <u> X </u> |
| Presentation of content and/or exercises/projects: | | |

| | | |
|--|-------|--------------|
| Requires a variety of problem-solving strategies including inductive and deductive reasoning. | _____ | <u> X </u> |
| Requires independent thought and study | _____ | <u> X </u> |
| Applies transferring knowledge and skills appropriately and efficiently to new situations or problems. | _____ | <u> X </u> |
| List of Reading/Educational Materials | | |

Comments:

_____ This course requires special or additional library materials (list attached).
 X This course requires special facilities:
 Employer work site

Attached Files:

[Manufacturing Pathways](#)

| |
|---|
| <p><u>BASIC SKILLS ADVISORIES PAGE</u> The skills listed are those needed for eligibility for English 125, 126, and Math 201. These skills are listed as the outcomes from English 252, 262, and Math 250. In the right hand column, list at least <u>three</u> major basic skills needed at the beginning of the target course and check off the corresponding basic skills listed at the left.</p> <p><u>Check the appropriate spaces.</u></p> <p>_____ Eligibility for Math 201 is advisory for the target course. _____ Eligibility for English 126 is advisory for the target course. _____ Eligibility for English 125 is advisory for the target course.</p> <p><i><u>If the reviewers determine that an advisory or advisories in Basic Skills are all that are necessary for success in the target course, stop here, provide the required signatures, and forward this form to the department chair, the appropriate associate dean, and the curriculum committee.</u></i></p> |
|---|

| | | |
|--|--|--|
| <p>REQUISITES</p> <p>Prerequisite -- MFGT 62 Advanced Welding</p> <table border="1"> <tr> <td> <ul style="list-style-type: none"> • Produce certified weldments. • Fabricate products to industry standards. </td> <td> <ul style="list-style-type: none"> • Participate in work experience that leads to their career goal, under the expertise of a skilled supervisor. </td> </tr> </table> <p><u>ESTABLISHING PREREQUISITES OR COREQUISITES</u></p> <p>Every prerequisite or corequisite requires content review plus justification of at least one of the seven kinds below. Prerequisite courses in communication and math outside of their disciplines require justification through statistical evidence. Kinds of justification that may establish a prerequisite are listed below.</p> <p>Check one of the following that apply. Documentation may be attached.</p> <p>_____ Significant statistical evidence indicates that the absence of the prerequisite course is related to unsatisfactory performance in the target course. Justification: Indicate how this is so. _____ The health or safety of the students in this course requires the prerequisite. Justification: Indicate how this is so. <u> X </u> The prerequisite course is part of a sequence of courses within or across a discipline. _____ The prerequisite is required in order for the course to be accepted for transfer to the UC or CSU systems. Justification: Indicate how this is so. _____ The prerequisite/corequisite is required by law or government regulations. Explain or cite regulation numbers: _____ The safety or equipment operation skills learned in the prerequisite course are required for the successful or safe completion of this course. Justification: Indicate how this is so. _____ The safety or equipment operation skills learned in the prerequisite course are required for the successful or safe completion of this course. Justification: Indicate how this is so. _____ Three CSU/UC campuses require an equivalent prerequisite or corequisite for a course equivalent to the target course:</p> <p>Justification:</p> <p>Prerequisite -- MFGT 82 Advanced Machine Shop</p> | <ul style="list-style-type: none"> • Produce certified weldments. • Fabricate products to industry standards. | <ul style="list-style-type: none"> • Participate in work experience that leads to their career goal, under the expertise of a skilled supervisor. |
| <ul style="list-style-type: none"> • Produce certified weldments. • Fabricate products to industry standards. | <ul style="list-style-type: none"> • Participate in work experience that leads to their career goal, under the expertise of a skilled supervisor. | |

- Practice safe shop techniques in operating both hand tools and machinery.
- Calculate advanced mathematical problems associated with part fabrication and machinery operation.
- Consistently execute daily assigned work in a timely and professional manner.

- Participate in work experience that leads to their career goal, under the expertise of a skilled supervisor.

ESTABLISHING PREREQUISITES OR COREQUISITES

Every prerequisite or corequisite requires content review plus justification of at least one of the seven kinds below. Prerequisite courses in communication and math outside of their disciplines require justification through statistical evidence. Kinds of justification that may establish a prerequisite are listed below.

Check one of the following that apply. Documentation may be attached.

Significant statistical evidence indicates that the absence of the prerequisite course is related to unsatisfactory performance in the target course.

Justification: Indicate how this is so.

The health or safety of the students in this course requires the prerequisite.

Justification: Indicate how this is so.

The prerequisite course is part of a sequence of courses within or across a discipline.

The prerequisite is required in order for the course to be accepted for transfer to the UC or CSU systems.

Justification: Indicate how this is so.

The prerequisite/corequisite is required by law or government regulations.

Explain or cite regulation numbers:

The safety or equipment operation skills learned in the prerequisite course are required for the successful or safe completion of this course.

Justification: Indicate how this is so.

The safety or equipment operation skills learned in the prerequisite course are required for the successful or safe completion of this course.

Justification: Indicate how this is so.

Three CSU/UC campuses require an equivalent prerequisite or corequisite for a course equivalent to the target course:

Justification:

JUSTIFICATION OF LIMITATION ON ENROLLMENT

Enrollment in courses or blocks of courses may be limited based on performance, honors, or other performance based criteria. Be mindful of the disproportionate impact the limitation will have on specific groups of students. It is important to determine if the limitation will disproportionately keep under-represented students from enrolling in the course or block of courses.

Describe the reasons for limiting the enrollment.

Course Designator: MFGT 19V

Course Title(s): Cooperative Work Experience - Manufacturing Technology

Rationale for Limiting Enrollment:

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