Washtenaw Community College Comprehensive Report

FLP 174 FLP Co-op Education I
Effective Term: Fall 2023

Course Cover

College: Advanced Technologies and Public Service Careers
Division: Advanced Technologies and Public Service Careers
Department: Advanced Manufacturing
Discipline: Fluid Power
Course Number: 174
Org Number: 14410
Full Course Title: FLP Co-op Education I
Transcript Title: FLP Co-op I
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission: Inactivation
Change Information:
Consultation with all departments affected by this course is required.
Rationale: Program discontinued
Proposed Start Semester: Fall 2023
Course Description: In this course, students gain skills from a new experience in an approved, compensated, industry-related position. Together with the instructor and employer, students set up work assignments and learning objectives to connect classroom learning with career-related work experience.

Course Credit Hours

Variable hours: Yes
Credits: 1 – 3
Lecture Hours: Instructor: 0 **Student:** 0
Lab: Instructor: 0 **Student:** 0
Clinical: Instructor: 0 **Student:** 0
Other: Instructor: 120 to 360 **Student:** 120 to 360

Total Contact Hours: Instructor: 120 to 360 **Student:** 120 to 360
Repeatable for Credit: YES
Number of times the course can be repeated for credit: 1
Maximum Hours: 3
Grading Methods: Letter Grades
Audit
Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Requisites

General Education

Request Course Transfer

Proposed For:

Student Learning Outcomes

Course Objectives

1. The student with the instructor and employer will complete a Cooperative Education Work Agreement which will include hours of work, locaiton, rate of pay and spceific assignments.
2. Using the Student Learning Objectives Form, the student with the instructor and employer will complete a learning plan for the semester. This plan will include a minimum of three learning objecrives and criteria for evaluation specific to the students work experience.
3. Using the Student Report on Cooperative Work Experience Form, the student will write a final report on the COOP experience containing the following items: a description of the assignment, a summary of skills and abillities used on the job, ways in which coursework was integrated into job tasks, an assessment of how well the objectives established at the beginning of the assignment were achieved and other reactions to and/or impressions of the experience.

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

Reviewer	Action	Date
Faculty Preparer:		
Allan Coleman	*Faculty Preparer*	*Jan 06, 2023*
Department Chair/Area Director:		
Allan Coleman	*Recommend Approval*	*Jan 06, 2023*
Dean:		
Jimmie Baber	*Recommend Approval*	*Jan 09, 2023*
Curriculum Committee Chair:		
Randy Van Wagnen	*Reviewed*	*Feb 08, 2023*
Assessment Committee Chair:		
Vice President for Instruction:		
Victor Vega	*Approve*	*Feb 09, 2023*

Course Number FLP 174

WASHTENAW COMMUNITY COLLEGE
COURSE SYLLABUS

Department: Fluid Power

New Course [X]

Course Number: FLP174

Existing Course [ ]

Course Title: CoOp Education I Fluid Power

Credit Hours: Varies (1-3)

Prerequisites: Successful completion of first semester courses and faculty approval.

Corequisites:

Catalog Course Description: In this course, the student gains skills from a new experience in an approved, compensated, industry-related position. Together with the instructor, the employer and CoOp Placement Office, the student determines work assignments and learning objectives to connect classroom learning with career-related work experience.

Contact Hours per week in a lecture/recitation setting	[ ]	
Contact Hours per week in a laboratory setting	[ ]	
Contact Hours per week in a clinical setting	[ ]	
Contact Hours per week in a work setting	[X]	8-24 (variable)

Total Contact Hours (per semester): VARIES minimum: 120 hours/1 credit
maximum: 360 hours/3 credits

Course Justification: (Check all that apply.)

- [X] program specialty
- [ ] college transfer
- [ ] support course
- [ ] division core
- [ ] industry training
- [ ] personal development
- [ ] core curriculum

Prepared By _____ Date _____
(Faculty Member)

Reviewed By George Agin Date 8/29/94
(Department Chair for Department)

Approved By R R Bentley Date 8/29/94
(Dean)

nondoc

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)

1. COOP Work Experience
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.

Course FLP 174

COURSE OBJECTIVES: Use student outcome based language and format. (Ex: The student will define and state the cause of the six major respiratory diseases.)

(Use one page for each instructional unit).

Major Instructional Unit# 1 Heading:

Objective #1: The student with the instructor and employer will complete a Cooperative Education Work Agreement which will include hours of work, location, rate of pay and specific assignments.

Objective #2: Using the Student Learning Objectives Form, the student with the instructor and employer will complete a learning plan for the semester. This plan will include a minimum of three learning objectives and criteria for evaluation specific to the students work experience.

Objective #3: Using the Student Report on Cooperative Work Experince Form, the student will write a final report on the COOP experience containing the following items:

* A description of the assignment
* A summary of skills and abilities used on the job
* Ways in which coursework was integrated into job tasks
* An assessment of how well the objectives established at the beginning of the assignment were achieved.
* Other reactions to and/or impressions of the experience.

Objective #4:

Objective #5:

Objective #6:

Objective #7:

(Add additional pages if necessary)

Course FLP 174

INSTRUCTIONAL METHODS: (Check the appropriate boxes and describe as needed.)

- [ ] Lecture
- [ ] Seminar
- [ ] Laboratory
- [ ] Clinical
- [ ] Telecourse
- [x] On-Site Work Experience
- [ ] Self-Paced
- [ ] Other_____

EVALUATION CRITERIA: (Check the appropriate boxes and describe as needed).

- [x] Attendance_____
- [ ] Quizzes_____
- [ ] Class Discussion_____
- [ ] Tests_____
- [ ] Papers_____
- [ ] Midterm_____
- [ ] Portfolio_____
- [ ] Final Exam_____
- [x] Project_____
- [ ] Independent Study_____
- [x] Reports_____
- [ ] Other (Audition, etc.)_____
- [x] Work Performance_____

ATTENDANCE REQUIREMENTS: (For Certification or nonevaluative purposes).

_____

SPECIAL EQUIPMENT/FACILITY AND ACTIVITY REQUIREMENTS: (Check the appropriate boxes and describe as needed).

- [ ] Lab equipment
- [ ] Testing in Testing Center
- [ ] LRC Reserves
- [ ] Student Regional Competitions
- [ ] Computers
- [ ] Off Campus Sites
- [ ] Field Trips
- [x] Other Faculty site visits_____

(Attach an additional page if necessary).

PRIMARY TEXT: (Disregard if text is not used).

Title:
Author:
Publisher:

Copyright Yr:
Est. Cost:

(Attach an additional page if more than one primary text is used).

Course FLP 174

SUPPLEMENTAL TEXTS OR COURSE PACKS:

1. Title:_____

   Author:_____ Copyright Yr:_____

   Publisher:_____ Est. Cost:_____

2. Title:_____

   Author:_____ Copyright Yr:_____

   Publisher:_____ Est. Cost:_____

(Attach another page if necessary).

SUPPLIES AND/OR UNIFORMS STUDENT WILL HAVE TO OWN OR ACQUIRE FOR COURSE SUCH AS: calculators, uniforms, tools, and software, etc. (Other then pen, pencil, paper, or textbook(s).

Descriptions	Cost Estimates

REFERENCE MATERIALS STUDENTS WILL BE REFERRED TO SUCH AS: journals, books, manuals, maps, etc.

_____

_____

_____

_____

AUDIO/VISUAL AND COMPUTER MATERIALS TO BE USED SUCH AS: films, video tapes, slides, audio tapes, software, etc.

Title	Source

WASHTENAW COMMUNITY COLLEGE
COURSE HANDOUT

The following information compatible with the Official Course Syllabus must be distributed to students at the first meeting of each course:

1. Course name:
2. Course number:
3. Course description:
4. A list of course objectives by unit:
5. Required text(s) and/or course packs:
6. Criteria for evaluation:
7. Requirements (Attendance, Special, or Other):
8. Hours/week required out-of-class:
9. Additional Information:
10. A schedule of class meeting dates with topics and assignments:

Each Instructor teaching this course should attach a copy of their "Student Handout Sheet" to this document.

JSW 4/18/01
9/9/01

Washtenaw Community College

Curriculum and Articulation Services

Course Descriptions

Division: Technology

Industrial Technology Department

FLP 111: Fluid Power Fundamentals 4 Credit(s)

Last Updated: Winter 2001
Current Syllabus Date: Fall 2000

Prereqs: None
Coreqs: None
30 lecture, 60 lab, 0 clinical, 0 other, 90 total contact hours
Fulfills Core Elements: 5 18 19
Course Description:

This is a beginning course in fluid power that deals with the basic principles of hydraulics and pneumatics. Directional valves, pressure controls, flow controls, actuators, and basic pump theory are studied. ANSI and ISO symbols are used to design simple circuits. Disassembly of components and assembly of circuits make up the lab experiences.

FLP 174: FLP Co-op Education I 1-3 Credit(s)

Last Updated: Fall 1999
Current Syllabus Date: Spr/Sum 1994

Prereqs: [redacted] Consent REQUIRED
Coreqs: None
0 lecture, 0 lab, 0 clinical, 120 other, 120 total contact hours
Fulfills Core Elements: None
Course Description:

JSW 4/18/01

In this course, students gain skills from a new experience in an approved, compensated, industry-related position. Together with the instructor and employer, students set up work assignments and learning objectives to connect classroom learning with career-related work experience. Instructor consent is required to register for this course.

FLP 213: Hydraulic Controls 3 Credit(s)

Last Updated: Winter 2001
Current Syllabus Date: Fall 2000

Prereqs: FLP 111
Coreqs: FLP 214
30 lecture, 30 lab, 0 clinical, 0 other, 60 total contact hours
Fulfills Core Elements: 5 7 8 9 10 18 19
Course Description:

FLP 213 parallels FLP 214 concentrating on the controls used in hydraulic circuits. The course further develops the concepts of directional, pressure, and flow controls covered in FLP 111. Print reading is emphasized, with the addition of modular valves such as cartridge valves and stack valves. Ladder logic and timing diagrams describing the sequencing of events within a control circuit are also covered. Lab time is an integral part of the course. FLP 214 is a co-requisite with this course.