Course Number ASV 174

WASHTENAW COMMUNITY COLLEGE
COURSE SYLLABUS

Department: Automotive Service Technology — New Course [ ]

Course Number: ASV 174 — Existing Course [x]

Course Title: ASV Co-op Education I

Credit Hours: 1-3

Prerequisites: ASV 111, 113, 116, 118, 124, 125 and Consent of Instructor

Corequisites:

Catalog Course Description: In this course students gain skills from a new experience in an approved, compensated position in the field of automotive service technology. Together with the instructor and employer, students set up work assignments and learning objectives to connect classroom learning with career-related work experience. This is the first of two possible co-op experiences.

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]	8-40

Total Contact Hours (per semester): minimum 120 hrs./1 credit - maximum 360 hrs./credits

Course Justification: (Check all that apply.)

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

Prepared By _____ (Faculty Member) Date _____

Reviewed By _____ (Department Chair for Department) Date _____

Approved By _____ (Dean) Date 12/13/95

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

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COURSE OBJECTIVES:

Major Instructional Unit# 1 Heading: Co-op Work experience

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 a Cooperative Work Experience Form, the student will write a final report on the Co-op experience including the following items:

* A description if 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.

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SUPPLEMENTAL TEXTS OR COURSE PACKS:

1. Title: None

   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
Depends on the student work position placement (may vary)	

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

ASV 161: Small Engine Diagnosis and Repair I 2 Credits

Prerequsites: ASV 160
Corequisites: None
15 lecture, 45 lab, 0 clinical, 0 other, 60 total contact hours
Fulfills Core Elements: 5 7 9 18

This course is a continuation of ASV 160 Small Engine Repair. Students perform in-depth diagnosis and repair of small gasoline engine units. In addition, units in electrical troubleshooting, advanced test equipment and driveline components are studied.

ASV 162: Small Engine Diagnosis and Repair II 2 Credits

Prerequsites: ASV 161
Corequisites: None
15 lecture, 45 lab, 0 clinical, 0 other, 60 total contact hours
Fulfills Core Elements: 7 9 18

This is an advanced course in small engine service. Laboratory work is stressed and based on concepts and skills learned in ASV 160 and 161. Work on live units is stressed.

ASV 174: ASV Co-op Education I 1-3 Credits

Prerequsites: Consent required
Corequisites: None
0 lecture, 0 lab, 0 clinical, 120 other, 120 total contact hours
Fulfills Core Elements: None

In this course students gain skills from a new experience in an approved, compensated position in the field of automotive service technology. Together with the instructor and employer, students set up work assignments and learning objectives to connect classroom learning with career-related work experience. This is the first of two possible co-op experiences. Instructor consent is required to register for this course.

ASV 177: Recertification in Brakes 1 Credit

Prerequsites:
Corequisites: None
15 lecture, 15 lab, 0 clinical, 0 other, 30 total contact hours
Fulfills Core Elements: None

This course prepares students for the State of Michigan mechanics recertification exam in brakes. This course is graded as pass/no pass.

ASV 241: Engine Repair 2 Credits

Prerequsites:
Corequisites: None
15 lecture, 45 lab, 0 clinical, 0 other, 60 total contact hours
Fulfills Core Elements: None

Students develop skills and knowledge for understanding and repairing automobile engines. Using text, tools, manual, and automobiles in a laboratory setting, students perform service procedures on engines with a concentration on the upper half. The course provides the knowledge to help prepare for the State of Michigan and ASE (Automotive Service Excellence) Engine Repair Exams.

ASV 242: Automatic Transmissions 2 Credits

Prerequsites:
Corequisites: None
15 lecture, 45 lab, 0 clinical, 0 other, 60 total contact hours
Fulfills Core Elements: None

An application of hydraulic fundamentals to automatic transmission operation is provided in this course. Diagnosis of transmission problems is featured with emphasis on understanding basic functions. This is one of eight courses required for the Automotive Mechanics advanced certificate (CVAMA).