

**WASHTENAW COMMUNITY COLLEGE  
COURSE SYLLABUS**

Department: Automotive Service Technology New Course

Course Number: ABR 274 Existing Course

Course Title: ABR Co-op Education II

Credit Hours: 1-3

Prerequisites: ABR 174 and Consent

Corequisites: \_\_\_\_\_

Catalog 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. This is the second of two Co-op courses.

Contact Hours per week in a lecture/recitation setting	<input type="text"/>	_____
Contact Hours per week in a laboratory setting	<input type="text"/>	_____
Contact Hours per week in a clinical setting	<input type="text"/>	_____
Contact Hours per week in a work setting	<input checked="" type="text"/>	<u>8-40</u>

Total Contact Hours (per semester): Varies: minimum 120 hrs/1 credit, 240 hrs/ 2 credit, 360 hrs/3 credits.

Course Justification: (Check all that apply.)

- |   |   |  |
|---|---|--|
| <input checked="" type="checkbox"/> program specialty | <input type="checkbox"/> college transfer             | <input type="checkbox"/> support course                  |
| <input type="checkbox"/> division core                | <input checked="" type="checkbox"/> industry training | <input checked="" type="checkbox"/> personal development |
| <input type="checkbox"/> core curriculum              |   |  |

Prepared By [Signature] Date 11/28/95  
(Faculty Member)

Reviewed By [Signature] Date 11/30/95  
(Department Chair for Department)

Approved By [Signature] Date 2/1/96  
(Dean)

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

Objective #1. Student will complete with instructor, placement office, and employer the following forms: student eligibility form, student agreement, work agreement, student learning objectives/assignments, student evaluation, and student self-assessment report on CO-OP experience.

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Objective #2. Student will complete the CO-OP work experience according to guidelines.

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Objective #3. Student will maintain a weekly log of duties.

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Objective #4. Student will meet with faculty advisor at times individually arranged at the beginning of the work assignment.

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Objective #5. Student will complete a final report on the CO-OP experience including the following: description of the assignment, summary of skills and abilities used on the job, ways in which course work was integrated into job tasks, and assessment of how well the objectives established at the beginning of the assignment were achieved.

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MAJOR INSTRUCTIONAL UNITS: (List as many as needed)

1. Complete all required forms.
2. CO-OP work experience.
3. Maintain weekly log of duties.
4. Meet with faculty advisor.
5. Complete a final report.

INSTRUCTIONAL METHODS:

1. On-site work experience.
2. Conferences with advising instructor.

SUGGESTED EVALUATION CRITERIA: (which may be appropriate to grade student.)

<input type="checkbox"/> Class Attendance _____	<input type="checkbox"/> Quizzes _____
<input type="checkbox"/> Class Discussion _____	<input type="checkbox"/> Tests _____
<input type="checkbox"/> Papers _____	<input type="checkbox"/> Midterm _____
<input type="checkbox"/> Portfolio _____	<input type="checkbox"/> Final Exam _____
<input checked="" type="checkbox"/> Project <u>Work Log</u> _____	<input type="checkbox"/> Independent Study _____
<input checked="" type="checkbox"/> Reports _____	<input type="checkbox"/> Homework _____
<input checked="" type="checkbox"/> Clinical/Work Performance _____	<input type="checkbox"/> Other _____

ATTENDANCE REQUIREMENTS: (For Certification or nonevaluative purposes.)

\_\_\_\_\_

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

<input type="checkbox"/> Lab Equipment _____	<input type="checkbox"/> Testing in Testing Center _____
<input type="checkbox"/> LRC Reserves _____	<input type="checkbox"/> Student Regional Competitions _____
<input type="checkbox"/> Computers _____	<input checked="" type="checkbox"/> Off Campus Sites <u>Work Site</u> _____
<input type="checkbox"/> Field Trips _____	<input type="checkbox"/> Other _____

(Attach an additional page is necessary.)

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

1. Title: NONE \_\_\_\_\_

Author: \_\_\_\_\_ Copyright Yr: \_\_\_\_\_

Publisher: \_\_\_\_\_ Est. Cost: \_\_\_\_\_

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

RECOMMENDED SUPPLEMENTAL TEXTS or COURSE PACKS:

1. Title: NONE  
Author: \_\_\_\_\_ Copyright Yr: \_\_\_\_\_  
Publisher: \_\_\_\_\_ Est. Cost: \_\_\_\_\_
  
2. Title: \_\_\_\_\_  
Author: \_\_\_\_\_ Copyright Yr: \_\_\_\_\_  
Publisher: \_\_\_\_\_ Est. Cost: \_\_\_\_\_

(Attach an additional page if necessary.)

SUPPLIES, other than pen, pencil, paper, or textbooks, STUDENT WILL HAVE TO OWN OR ACQUIRE FOR COURSE, SUCH AS: calculators, uniforms, tools, and software, etc.

<u>Description</u>	<u>Cost Estimate</u>
<u>This will depend on the student's work placement.</u>	_____
_____	_____
_____	_____

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

<u>This will depend on the student's work placement.</u>
_____
_____
_____

AUDIO/VISUAL AND COMPUTER MATERIALS AVAILABLE FOR USE SUCH AS: films, video tapes, slides, audio tapes, software, etc.

<u>Title</u>	<u>Source</u>
_____	_____
_____	_____
_____	_____

WASHTENAW COMMUNITY COLLEGE  
COURSE HANDOUTS

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. Course objectives:
5. Required text(s) and/or supplies:
6. Criteria for evaluation:
7. Requirements (Attendance, Special, or Other):
8. Hours/week required out of class:
9. Additional information:
10. A tentative schedule by week or class meeting of topics to be covered:

Each Instructor may design his/her own course handout within these guidelines.

## COURSE SUMMARY

**COURSE TITLE:** CO-OP Education II

**COURSE NUMBER:** ABR 274

**CREDITS:** Varies: 1 to 3

**PREREQUISITE:** ABR 174; ABR 174 can also be a corequisite.

### DESCRIPTION:

In this course the student gains from a new experience in an approved, compensated, industry-related position. Together with the instructor, the employer, and the CO-OP Placement Office, the student determines work assignments and learning objectives to connect classroom learning with career-related work experience. This is the second of two CO-OP courses.

### COURSE OBJECTIVES:

During this course, the student will:

1. Complete with instructor, placement office, and employer the following forms: student eligibility form, student agreement, work agreement, student learning objectives/assignments, student evaluation, and student self-assessment report on CO-OP experience.
2. Complete the CO-OP work experience according to guidelines.
3. Maintain a weekly log of duties.
4. Meet with instructor according to individually determined schedule.
5. Complete a final report on the CO-OP experience including the following: description of the assignment, summary of skills and abilities used on the job, ways in which course work was integrated into job tasks, and assessment of how well the objectives established at the beginning of the assignment were achieved.

### **ABR 219: Advanced Auto Body I: Major Repair 4 Credits**

Prerequisites: ABR 123 and ABR 124

Corequisites: None

15 lecture, 105 lab, 0 clinical, 0 other, 120 total contact hours

Fulfills Core Elements: 7 9 18 19

This course covers the use of hydraulic jacking equipment to repair damaged sheet metal and body shells. Advanced welding techniques and fine tuning MIG/TIG welders for use on aluminum panels is included. Lab work includes set-up of typical push or pull operations and straightening procedures used on collision damage.

### **ABR 224: Advanced Auto Body II: Auto Refinishing Fundamentals 4 Credits**

Prerequisites: ABR 123 and ABR 124

Corequisites: None

30 lecture, 90 lab, 0 clinical, 0 other, 120 total contact hours

Fulfills Core Elements: None

This course provides students with the skills to use paint repair applications on collision-damaged vehicles. Included is theory of paint blending, and planning and set-up of single and multi-stage blend repairs. Emphasis is on basecoat/clearcoat finishes and tri-coat finishes. Students learn the characteristics of color and how to apply knowledge of color movement and tint to obtain blendable color matches. Lab assignments include set-up of paint mixing stations and plotting solid and metallic colors.

### **ABR 226: Advanced Auto Body III: Frame/Unibody Alignment 4 Credits**

Prerequisites: ABR 224

Corequisites: None

30 lecture, 90 lab, 0 clinical, 0 other, 120 total contact hours

Fulfills Core Elements: 7 8 9 18

This course covers the repair of structurally damaged conventional framed, unitized automobiles and light trucks. Included is a detailed study of body and frame construction, diagnostic procedures, repair techniques and structural parts replacement using conventional and computerized laser measuring equipment.

### **ABR 229: Advanced Auto Body IV: Major Repair Applications 4 Credits**

Prerequisites: ABR 219

Corequisites: None

40 lecture, 80 lab, 0 clinical, 0 other, 120 total contact hours

Fulfills Core Elements: None

This course provides a detailed study of the automobile body that includes the use of hydraulic jacks, suspension and alignment tools, auto-electric equipment, and heating and air conditioning tools. Electrical theory, alignment and suspension theory, and application knowledge of air conditioning theory are covered. Lab assignments include full or partial panel replacement including the replacement of structural stationary glass. Work will be done on collision-damaged vehicles provided by the school or students' own vehicles.

### **ABR 230: Advanced Auto Body V: Advanced Auto Refinish Applications 4 Credits**

Prerequisites: ABR 224

Corequisites: None

30 lecture, 90 lab, 0 clinical, 0 other, 120 total contact hours

Fulfills Core Elements: 7 8 9

In this class, students utilize periods of concentrated effort on specific assignments in selected areas of the auto body repair field. Students work with instructor consultation to demonstrate development within the assigned area of general collision service, body shop organization and management, or estimating automobile physical damage.

### **ABR 274: ABR Co-op Education II 1-3 Credits**

Prerequisites: ABR 174 and Consent required

Corequisites: None

0 lecture, 0 lab, 0 clinical, 0 other, 0 total contact hours

Fulfills Core Elements: None

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. This is the second of two Co-op courses. Instructor consent is required to register for this course.