

Washtenaw Community College Comprehensive Report

ABR 112 Introduction to Automotive Refinishing Effective Term: Winter 2025

Course Cover

College: Advanced Technologies and Public Service Careers

Division: Advanced Technologies and Public Service Careers

Department: Transportation Technologies

Discipline: Auto Body Repair (new)

Course Number: 112

Org Number: 14100

Full Course Title: Introduction to Automotive Refinishing

Transcript Title: Intro to Automotive Refinish

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Time Schedule , Web Page

Reason for Submission: Three Year Review / Assessment Report

Change Information:

Pre-requisite, co-requisite, or enrollment restrictions

Outcomes/Assessment

Objectives/Evaluation

Rationale: 3-year syllabus review based on assessment.

Proposed Start Semester: Winter 2024

Course Description: In this course, students will build their knowledge for a career in the automotive refinishing industry. Students will be exposed to today's industry standard methods, such as learning how to apply base and clear systems, single stage coatings, primers, and sealers. This is an entry level, hands-on, self-paced course where students will learn panel preparation, proper mixing of sprayable materials, proper spray gun techniques and industry safety procedures.

Course Credit Hours

Variable hours: No

Credits: 4

Lecture Hours: Instructor: 60 Student: 60

Lab: Instructor: 45 Student: 45

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 105 Student: 105

Repeatable for Credit: NO

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

No Level Required

Requisites

General Education

Degree Attributes

Statewide articulation approved

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Demonstrate the proper techniques of automotive finishing.

Assessment 1

Assessment Tool: Outcome-related student projects

Assessment Date: Winter 2026

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of the students will score a 3 out of 5 or higher on each completed project.

Who will score and analyze the data: Departmental faculty

Assessment 2

Assessment Tool: Outcome-related departmental exam questions

Assessment Date: Winter 2026

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 75% of students will score 75% or higher.

Who will score and analyze the data: Departmental faculty

2. Analyze vehicle paint condition and apply the necessary refinishing procedures.

Assessment 1

Assessment Tool: Outcome-related student projects

Assessment Date: Winter 2026

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of the students will score a 3 out of 5 or higher on each completed project.

Who will score and analyze the data: Departmental faculty

Assessment 2

Assessment Tool: Outcome-related departmental exam questions

Assessment Date: Winter 2026

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 75% of students will score 75% or higher.

Who will score and analyze the data: Departmental faculty

3. Perform necessary repairs in accordance with safety standards as instructed.

Assessment 1

Assessment Tool: Outcome-related student projects

Assessment Date: Winter 2026

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of the students will score a 3 out of 5 or higher on each completed project.

Who will score and analyze the data: Departmental faculty

Assessment 2

Assessment Tool: Outcome-related departmental exam questions

Assessment Date: Winter 2026

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 75% of students will score 75% or higher.

Who will score and analyze the data: Departmental faculty

4. Apply the proper refinishing materials on automobiles according to industry standards.

Assessment 1

Assessment Tool: Outcome-related student projects

Assessment Date: Winter 2026

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of the students will score a 3 out of 5 or higher on each completed project.

Who will score and analyze the data: Departmental faculty

Assessment 2

Assessment Tool: Outcome-related departmental exam questions

Assessment Date: Winter 2026

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 75% of students will score 75% or higher.

Who will score and analyze the data: Departmental faculty

Course Objectives

1. Recognize shop rules and safety requirements.
2. Inspect vehicle and identify substrate (material), type of finish, surface condition, and film thickness.
3. Demonstrate and explain the purpose and importance of refinish technicians using a complete paint system.
4. Recognize appropriate spray techniques such as gun arc, gun angle, gun distance, gun speed, and spray pattern overlap.
5. Identify appropriate metal treatment or primer in accordance with total product systems.
6. Apply Etch or Epoxy primers to the raw substrate; understand the differences between the two as well as why/when to use one versus the other.
7. Apply finish using appropriate spray techniques for the finish being applied.
8. Apply suitable sealer to the area being refinished when sealing is needed or desirable.
9. Demonstrate the main differences between using Single Stage coatings and the more modern Basecoat / Clearcoat system.
10. Identify buffing-related imperfections (swirl marks, wheel burns).
11. Describe how to correct buffing-related imperfections.

12. Buff and polish finish to complete projects.
13. Create a letdown panel for custom painting.
14. Develop a custom color using specialty products such as pearl and/or flake using a "Let Down Panel."
15. Apply custom coatings.

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Gary Sobbry</i>	<i>Faculty Preparer</i>	<i>Aug 15, 2023</i>
Department Chair/Area Director: <i>Rocky Roberts</i>	<i>Recommend Approval</i>	<i>Aug 16, 2023</i>
Dean: <i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>Aug 17, 2023</i>
Curriculum Committee Chair: <i>Randy Van Wagnen</i>	<i>Recommend Approval</i>	<i>Jun 04, 2024</i>
Assessment Committee Chair: <i>Jessica Hale</i>	<i>Recommend Approval</i>	<i>Jun 05, 2024</i>
Vice President for Instruction: <i>Brandon Tucker</i>	<i>Approve</i>	<i>Jun 08, 2024</i>

Washtenaw Community College Comprehensive Report

ABR 112 Introduction to Automotive Refinishing Effective Term: Spring/Summer 2020

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: Transportation Technologies

Discipline: Auto Body Repair (new)

Course Number: 112

Org Number: 14100

Full Course Title: Introduction to Automotive Refinishing

Transcript Title: Intro to Automotive Refinish

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Time Schedule , Web Page

Reason for Submission: Three Year Review / Assessment Report

Change Information:

Consultation with all departments affected by this course is required.

Course description

Rationale: Review of course. Based on the assessment report, there are no intended changes.

Proposed Start Semester: Fall 2019

Course Description: In this entry level, self-paced course, beginning painters build their knowledge for a career in the automotive refinishing industry. Students will be exposed to today's industry standard methods, such as learning how to apply base and clear systems, single stage coatings, primers, and sealers. This is a hands-on course where students will learn panel preparation, proper mixing of sprayable materials, proper spray gun techniques and industry safety procedures.

Course Credit Hours

Variable hours: No

Credits: 4

Lecture Hours: Instructor: 60 Student: 60

Lab: Instructor: 45 Student: 45

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 105 Student: 105

Repeatable for Credit: NO

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

Level 1

Requisites

General Education

Degree Attributes

Statewide articulation approved

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Recognize principles and demonstrate techniques of automotive refinishing.

Assessment 1

Assessment Tool: Student projects

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of the students will score 75% or higher

Who will score and analyze the data: Departmental faculty

Assessment 2

Assessment Tool: Departmental exam

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 75% of the students will score 75% or higher

Who will score and analyze the data: Departmental faculty

2. Analyze vehicle paint condition and determine refinishing procedures.

Assessment 1

Assessment Tool: Student projects

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of the students will score 75% or higher

Who will score and analyze the data: Departmental faculty

Assessment 2

Assessment Tool: Departmental exam

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 75% of the students will score 75% or higher

Who will score and analyze the data: Departmental faculty

3. Recognize and perform necessary repairs in accordance with safety standards as instructed.

Assessment 1

Assessment Tool: Student projects

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of the students will score 75% or higher

Who will score and analyze the data: Departmental faculty

Assessment 2

Assessment Tool: Departmental exam

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: All students

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 75% of the students will score 75% or higher

Who will score and analyze the data: Departmental faculty

4. Identify refinishing materials and apply them on automobiles according to industry standards.

Assessment 1

Assessment Tool: Student projects

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of the students will score 75% or higher

Who will score and analyze the data: Departmental faculty

Assessment 2

Assessment Tool: Departmental exam

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: All students

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 75% of the students will score 75% or higher

Who will score and analyze the data: Departmental faculty

Course Objectives

1. Recognize shop rules and safety requirements.
2. Inspect vehicle and identify substrate (material), type of finish, surface condition, and film thickness.
3. Develop and document a plan for refinishing using a total product system.
4. Recognize appropriate spray techniques such as gun arc, gun angle, gun distance, gun speed, and spray pattern overlap.
5. Identify appropriate metal treatment or primer in accordance with total product systems.
6. Apply metal treatment or primer as undercoat.
7. Apply finish using appropriate spray techniques for the finish being applied.
8. Apply suitable sealer to the area being refinished when sealing is needed or desirable.
9. Demonstrate the ability to apply single stage and basecoat/clearcoat for panel blending or partial refinishing.
10. Identify buffing-related imperfections (swirl marks, wheel burns).
11. Describe how to correct buffing-related imperfections.

12. Buff and polish finish to complete projects.
13. Create a letdown panel for custom painting.
14. Create custom color using specialty products.
15. Apply custom coatings.

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Gary Sobbry</i>	<i>Faculty Preparer</i>	<i>Aug 06, 2019</i>
Department Chair/Area Director: <i>Justin Morningstar</i>	<i>Recommend Approval</i>	<i>Aug 07, 2019</i>
Dean: <i>Brandon Tucker</i>	<i>Recommend Approval</i>	<i>Aug 16, 2019</i>
Curriculum Committee Chair: <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Sep 30, 2019</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Oct 04, 2019</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Oct 07, 2019</i>

Washtenaw Community College Comprehensive Report

ABR 112 Introduction to Automotive Refinishing Effective Term: Winter 2019

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: Automotive Body

Discipline: Auto Body Repair

Course Number: 112

Org Number: 14110

Full Course Title: Introduction to Automotive Refinishing

Transcript Title: Intro to Automotive Refinish

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Time Schedule , Web Page

Reason for Submission: Three Year Review / Assessment Report

Change Information:

Consultation with all departments affected by this course is required.

Outcomes/Assessment

Objectives/Evaluation

Rationale: Three year update.

Proposed Start Semester: Fall 2018

Course Description: This entry level self-paced course establishes the foundation in which beginning painters build their knowledge for a career in the automotive refinishing industry. Students will be exposed to today's industry standard methods, such as learning how to apply base and clear systems, single stage coatings, primers, and sealers. This is a hands-on course where students will learn panel preparation, proper mixing of sprayable materials, proper spray gun techniques and adherence to industry safety procedures. This course was previously Auto Body II: Refinishing Fundamentals.

Course Credit Hours

Variable hours: No

Credits: 4

Lecture Hours: Instructor: 60 **Student:** 60

Lab: Instructor: 45 **Student:** 45

Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 105 **Student:** 105

Repeatable for Credit: NO

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

Level 1

Requisites

General Education

Degree Attributes

Statewide articulation approved

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Recognize principles and demonstrate techniques of automotive refinishing.

Assessment 1

Assessment Tool: Student projects

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% of the students will score 80% or higher

Who will score and analyze the data: Departmental faculty

Assessment 2

Assessment Tool: Departmental exam

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 70% of the students will score 80% or higher

Who will score and analyze the data: Departmental faculty

2. Analyze vehicle paint condition and determine refinishing procedures.

Assessment 1

Assessment Tool: Student projects

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% of the students will score 80% or higher

Who will score and analyze the data: Departmental faculty

Assessment 2

Assessment Tool: Departmental exam

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 70% of the students will score 80% or higher

Who will score and analyze the data: Departmental faculty

3. Recognize and perform necessary repairs in accordance with safety standards as instructed.

Assessment 1

Assessment Tool: Student projects

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% of the students will score 80% or higher

Who will score and analyze the data: Departmental faculty

Assessment 2

Assessment Tool: Departmental exam

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: All students

How the assessment will be scored: Answer Key

Standard of success to be used for this assessment: 70% of the students will score 80% or higher

Who will score and analyze the data: Departmental Faculty

4. Identify refinishing materials and apply them on automobiles according to industry standards.

Assessment 1

Assessment Tool: Student projects

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% of the students will score 80% or higher

Who will score and analyze the data: Departmental faculty

Assessment 2

Assessment Tool: Departmental exam

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: All students

How the assessment will be scored: Answer Key

Standard of success to be used for this assessment: 70% of the students will score 80% or higher

Who will score and analyze the data: Departmental Faculty

Course Objectives

1. Recognize shop rules and safety requirements.
2. Inspect vehicle and identify substrate (material), type of finish, surface condition, and film thickness.
3. Develop and document a plan for refinishing using a total product system.
4. Recognize appropriate spray techniques such as gun arc, gun angle, gun distance, gun speed, and spray pattern overlap.
5. Identify appropriate metal treatment or primer in accordance with total product systems.
6. Apply metal treatment or primer as undercoat.
7. Apply finish using appropriate spray techniques for the finish being applied.
8. Apply suitable sealer to the area being refinished when sealing is needed or desirable.
9. Demonstrate the ability to apply single stage and basecoat/clearcoat for panel blending or partial refinishing.
10. Identify buffing-related imperfections (swirl marks, wheel burns).
11. Describe how to correct buffing-related imperfections.
12. Buff and polish finish to complete projects.
13. Create a letdown panel for custom painting.
14. Create custom color using specialty products.
15. Apply custom coatings.

New Resources for Course

Course Textbooks/Resources

- Textbooks
- Manuals
- Periodicals
- Software

Equipment/Facilities

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Gary Sobbry</i>	<i>Faculty Preparer</i>	<i>Dec 18, 2017</i>
Department Chair/Area Director: <i>Timothy VanSchoick</i>	<i>Recommend Approval</i>	<i>Mar 26, 2018</i>
Dean: <i>Brandon Tucker</i>	<i>Recommend Approval</i>	<i>Apr 05, 2018</i>
Curriculum Committee Chair: <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Sep 18, 2018</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Sep 18, 2018</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Sep 19, 2018</i>