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

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

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
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Student Learning Outcomes

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