

Washtenaw Community College Comprehensive Report

ABR 135 Collision-Related Mechanical and Electrical Repairs Effective Term: Fall 2022

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: 135

Org Number: 14100

Full Course Title: Collision-Related Mechanical and Electrical Repairs

Transcript Title: Collis. Relatd Mech & Elec Rpr

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: No longer part of program.

Proposed Start Semester: Winter 2022

Course Description: This course will introduce the student to the fundamental principles of the automotive mechanical, electrical and body component repair issues required to restore vehicle collision damage to pre-accident condition.

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

Requisites

General Education

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Identify principles of mechanical and electrical repair issues.

Assessment 1

Assessment Tool: Final Exam

Assessment Date: Winter 2019

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: 85 percent of students will score 80 percent or higher.

Who will score and analyze the data: Department faculty

2. Analyze auto body components and determine needed repairs or replacement.

Assessment 1

Assessment Tool: Student Achievement Record and Final Exams

Assessment Date: Winter 2019

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: 85 percent of students will score 80 percent or higher.

Who will score and analyze the data: Department faculty

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

Assessment 1

Assessment Tool: Student Achievement Record

Assessment Date: Winter 2019

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: 85 percent of students will score 80 percent or higher.

Who will score and analyze the data: Department faculty

Course Objectives

1. Explore planned classroom activities and demonstrate the ability to apply fundamental principles of collision related mechanical and electrical repairs.
2. Inspect, remove and replace steering knuckle/spindle/hub assemblies (including bearings, races, seals, etc.)
3. Inspect, test, and replace fusible links, circuit breakers, and fuses.
4. Inspect flexible brake hoses for leaks, kinks, cracks, bulging, or wear; remove and replace hoses; tighten loose fittings and supports.
5. Locate and identify A/C system service parts.
6. Inspect, remove and replace electric cooling fan sensors, check operation.
7. Inspect, remove and replace half shafts and axle constant velocity joints.
8. Inspect, remove and replace exhaust pipes, mufflers, converters, resonators, tail pipes, and heat shields.
9. Inspect, remove and replace engine components of air intake systems.
10. Verify that Supplemental Restraint System (SRS) is operational.

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>Justin Morningstar</i>	<i>Faculty Preparer</i>	<i>Nov 10, 2021</i>
Department Chair/Area Director: <i>Rocky Roberts</i>	<i>Recommend Approval</i>	<i>Nov 10, 2021</i>
Dean: <i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>Nov 12, 2021</i>
Curriculum Committee Chair: <i>Randy Van Wagnen</i>	<i>Reviewed</i>	<i>Jan 28, 2022</i>
Assessment Committee Chair:		
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Jan 30, 2022</i>

Washtenaw Community College Comprehensive Report

ABR 135 Collision-Related Mechanical and Electrical Repairs Effective Term: Spring/Summer 2017

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: Automotive Body

Discipline: Auto Body Repair

Course Number: 135

Org Number: 14110

Full Course Title: Collision-Related Mechanical and Electrical Repairs

Transcript Title: Collis. Relatd Mech & Elec Rpr

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

Outcomes/Assessment

Rationale: Course assessment submitted 11/2/16. Review after assessment after course assessment.

Proposed Start Semester: Spring/Summer 2017

Course Description: This course will introduce the student to the fundamental principles of the automotive mechanical, electrical and body component repair issues required to restore vehicle collision damage to pre-accident condition.

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

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Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

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Proposed For:

Student Learning Outcomes

1. Identify principles of mechanical and electrical repair issues.

Assessment 1

Assessment Tool: Final Exam

Assessment Date: Winter 2019

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: 85 percent of students will score 80 percent or higher.

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10. Verify that Supplemental Restraint System (SRS) is operational.

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>Scott Malnar</i>	<i>Faculty Preparer</i>	<i>Sep 28, 2016</i>
Department Chair/Area Director: <i>Gary Sobbry</i>	<i>Recommend Approval</i>	<i>Oct 21, 2016</i>
Dean: <i>Brandon Tucker</i>	<i>Recommend Approval</i>	<i>Nov 02, 2016</i>
Curriculum Committee Chair: <i>David Wooten</i>	<i>Recommend Approval</i>	<i>Dec 13, 2016</i>
Assessment Committee Chair: <i>Michelle Garey</i>	<i>Recommend Approval</i>	<i>Dec 15, 2016</i>
Vice President for Instruction: <i>Bill Abernethy</i>	<i>Approve</i>	<i>Dec 20, 2016</i>