

Washtenaw Community College Comprehensive Report

CCC 255 Custom Fabrication and Chassis Design II

Effective Term: Fall 2022

Course Cover

College: Advanced Technologies and Public Service Careers

Division: Advanced Technologies and Public Service Careers

Department: Transportation Technologies

Discipline: Custom Cars and Concepts (new)

Course Number: 255

Org Number: 14100

Full Course Title: Custom Fabrication and Chassis Design II

Transcript Title: Cust Fab & Chassis Design II

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

Rationale: Update course information.

Proposed Start Semester: Winter 2022

Course Description: In this course, students will develop advanced skills and knowledge related to project vehicle completion. Areas of study include fastener selection, electrical system upgrades, ride tuning of suspension, brakes, steering, and final safety inspections. Working with staff and other team members, students will devise a promotional plan as well as aid in the setup, display and organization of the project vehicle's debut.

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

Prerequisite

CCC 215 minimum grade "B"; may enroll concurrently

General Education

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Select and install the proper component fasteners.

Assessment 1

Assessment Tool: Outcome-related final student project (car)

Assessment Date: Winter 2024

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: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% will score 80% (4 of 5) or higher

Who will score and analyze the data: Department chair and instructors

2. Select and install the proper electrical components.

Assessment 1

Assessment Tool: Outcome-related final student project (car)

Assessment Date: Winter 2024

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: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% will score 80% (4 of 5) or higher

Who will score and analyze the data: Department chair and instructors

3. Perform inspection using final vehicle safety inspection checklist.

Assessment 1

Assessment Tool: Outcome-related final student project (car)

Assessment Date: Winter 2024

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: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% will score 80% (4 of 5) or higher

Who will score and analyze the data: Department chair and instructors

4. Create and implement a vehicle promotional plan.

Assessment 1

Assessment Tool: Promotional plan

Assessment Date: Winter 2024

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: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% will score 80% (4 of 5) or higher

Who will score and analyze the data: Department chair and instructors

Course Objectives

1. Identify proper fasteners for a specific project.
2. Discuss the steps to measure fasteners.
3. Install fasteners according to specifications.

4. Identify the proper braking system.
5. Install braking system according to specifications.
6. Create a final vehicle safety inspection checklist.
7. Participate in the final safety inspection.
8. Create and implement a vehicle promotional plan.
9. Organize and assist in a project vehicle debut.
10. Discuss electrical components needed for the engine bay.
11. Identify necessary electrical system upgrades.
12. Perform necessary electrical system upgrades.
13. Discuss electrical components needed for the vehicle interior.
14. Discuss electrical components needed for the vehicle exterior.
15. Tune steering for optimal performance.
16. Tune suspension for optimal performance.

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

Level III classroom
Computer workstations/lab
Data projector/computer

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Gary Sobbry</i>	<i>Faculty Preparer</i>	<i>Aug 09, 2021</i>
Department Chair/Area Director: <i>Rocky Roberts</i>	<i>Recommend Approval</i>	<i>Aug 09, 2021</i>
Dean: <i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>Aug 19, 2021</i>
Curriculum Committee Chair: <i>Randy Van Wagnen</i>	<i>Recommend Approval</i>	<i>Apr 14, 2022</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Apr 18, 2022</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Apr 22, 2022</i>

Washtenaw Community College Comprehensive Report

CCC 255 Custom Fabrication and Chassis Design II

Conditional Approval

Effective Term: Winter 2014

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: Automotive Body

Discipline: Custom Cars and Concepts

Course Number: 255

Org Number: 14110

Full Course Title: Custom Fabrication and Chassis Design II

Transcript Title: Cust Fab & Chassis Design II

Is Consultation with other department(s) required: No

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

Reason for Submission: New Course

Change Information:

Consultation with all departments affected by this course is required.

Course discipline code & number

Course description

Credit hours

Total Contact Hours

Pre-requisite, co-requisite, or enrollment restrictions

Outcomes/Assessment

Objectives/Evaluation

Rationale: Because of the length of the advanced certificate programs, student success and completion rates have been below expectations. With students unable to complete all courses because of limited offerings we are revising the program. We are combining material from CCC 221 and CCC 241 into one course and reducing the number of credit hours in the program.

Proposed Start Semester: Winter 2014

Course Description: In this course, students will continue to develop skills and gain valuable information as it relates to the completion of a project vehicle. Areas of study include fastener selection, electrical system upgrades, ride tuning of suspension, brakes, steering, and final safety inspections. Working with staff and other team members, students will devise a promotional plan, aid in the set up, display and help organize the project vehicles' debut. This course contains material previously taught in CCC 221 and CCC 241.

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

Prerequisite

CCC 215 minimum grade "B"; may enroll concurrently

General Education

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Select and install the proper component fasteners.

Assessment 1

Assessment Tool: Final student project (car)

Assessment Date: Spring/Summer 2015

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: NATEF checklist

Standard of success to be used for this assessment: An overall class average of 3.5 (of 5) or higher

Who will score and analyze the data: Department chair and instructors will score the project and analyze the data.

2. Determine and install the proper electrical components.

Assessment 1

Assessment Tool: Final student project (car)

Assessment Date: Spring/Summer 2015

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: NATEF checklist

Standard of success to be used for this assessment: An overall class average of 3.5 (of 5) or higher

Who will score and analyze the data: Department chair and instructors will score the project and analyze the data.

3. Determine and perform final safety inspection.

Assessment 1

Assessment Tool: Final student project (car)

Assessment Date: Spring/Summer 2015

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: NATEF checklist

Standard of success to be used for this assessment: An overall class average of 3.5 (of 5) or higher

Who will score and analyze the data: Department chair and instructors will score the project and analyze the data.

4. Formulate promotional plan.

Assessment 1

Assessment Tool: Promotional Plan

Assessment Date: Spring/Summer 2015

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: Departmentally-developed rubric

Standard of success to be used for this assessment: An overall class average of 3.5 (of 5) or higher

Who will score and analyze the data: Department Chair and instructors will score and analyze the data.

Course Objectives

1. Identify proper fasteners for specific project.
Matched Outcomes
2. Install fasteners according to specifications.
Matched Outcomes
3. Identify the proper braking system.
Matched Outcomes
4. Install braking system according to specifications.
Matched Outcomes
5. Create a final vehicle safety inspection checklist.
Matched Outcomes
6. Participate in the final safety inspection.
Matched Outcomes
7. Create and implement a vehicle promotional plan.
Matched Outcomes
8. Organize and assist in project vehicle debut.
Matched Outcomes

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 09, 2013</i>
Department Chair/Area Director: <i>Scott Malnar</i>	<i>Recommend Approval</i>	<i>Sep 10, 2013</i>
Dean: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Sep 24, 2013</i>
Vice President for Instruction: <i>Bill Abernethy</i>	<i>Approve</i>	<i>Oct 11, 2013</i>