

Washtenaw Community College Comprehensive Report

MST 235 Advanced Motorcycle Fabrication II Effective Term: Fall 2025

Course Cover

College: Advanced Technologies and Public Service Careers

Division: Advanced Technologies and Public Service Careers

Department: Transportation Technologies

Discipline: Motorcycle Service Technology (new)

Course Number: 235

Org Number: 14100

Full Course Title: Advanced Motorcycle Fabrication II

Transcript Title: Adv. Motorcycle Fabrication II

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: The motorcycle programs have been inactivated. We have decided to inactivate the courses that are not part of the existing programs in the transportation department.

Proposed Start Semester: Fall 2019

Course Description: This is the second course in advanced motorcycle fabrication. This course expands on the knowledge acquired in Motorcycle Service Technology, Welding and Fabrication and in Machine Tool Technology. Areas of study will include all aspects of the complete design and fabrication of a custom motorcycle.

Course Credit Hours

Variable hours: No

Credits: 3

Lecture Hours: Instructor: 30 **Student:** 30

Lab: Instructor: 30 **Student:** 30

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

Total Contact Hours: Instructor: 60 **Student:** 60

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. Students will design all components of a custom motorcycle.

Assessment 1

Assessment Tool: Practical Lab Exam

Assessment Date: Fall 2012

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Practical lab exams will be scored using a departmentally-developed rubric.

Standard of success to be used for this assessment: Average of 75% of the students will place at or above the intermediate level.

Who will score and analyze the data: Department members not teaching the course that term will score and analyze the data.

2. Fabricate custom motorcycle frames and frame components.

Assessment 1

Assessment Tool: Practical Lab Exams

Assessment Date: Fall 2012

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Practical lab exams will be scored using a departmentally-developed rubric.

Standard of success to be used for this assessment: Average of 75% of the students will place at or above the intermediate level.

Who will score and analyze the data: Department member not teaching the course that term.

3. Fabricate body components and accessories for custom motorcycles.

Assessment 1

Assessment Tool: Practical Lab Exams

Assessment Date: Fall 2012

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Practical lab exams will be scored using a departmentally-developed rubric.

Standard of success to be used for this assessment: Average of 75% of the students will place at or above the intermediate level.

Who will score and analyze the data: Department member not teaching the course that semester.

Course Objectives

1. Demonstrate proficiency in the design of all components of a custom motorcycle.
2. Develop a sketch that illustrates the components of a safe and visually exciting custom motorcycle.
3. Develop blueprints of all components of the custom motorcycle.
4. Demonstrate proficiency in the fabrication of custom motorcycle frames and frame components.
5. Build custom components that meet the specifications of the design and blueprints.
6. Demonstrate proficiency in the fabrication of custom motorcycle body components and accessories.

New Resources for Course**Course Textbooks/Resources**

Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

Level III classroom

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Shawn Deron</i>	<i>Faculty Preparer</i>	<i>Mar 27, 2024</i>
Department Chair/Area Director: <i>Rocky Roberts</i>	<i>Recommend Approval</i>	<i>Mar 31, 2024</i>
Dean: <i>Eva Samulski</i>	<i>Recommend Approval</i>	<i>Apr 03, 2024</i>
Curriculum Committee Chair: <i>Randy Van Wagnen</i>	<i>Reviewed</i>	<i>Feb 11, 2025</i>
Assessment Committee Chair:		
Vice President for Instruction: <i>Brandon Tucker</i>	<i>Approve</i>	<i>Feb 12, 2025</i>

Washtenaw Community College Comprehensive Report

MST 235 Advanced Motorcycle Fabrication II Proposed start term: Fall 2010

Course Cover

Division: Vocational Technologies

Department: Motorcycle Technology

Discipline: Motorcycle Service Technology

Course Number: 235

Org Number: 14140

Full Course Title: Advanced Motorcycle Fabrication II

Transcript Title: Adv. Motorcycle Fabrication 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:

Rationale: This is the second course in advanced motorcycle fabrication. In this class, students will combine all the skills learned in MST, WAF, MTT, ABR and Advanced Motorcycle Fabrication I to become proficient in all aspects of the design and fabrication of a custom motorcycle. The skills learned in this class could crossover to prototype fabrication in all areas of industrial design.

Proposed Start: Fall 2010

Course Description: This is the second course in advanced motorcycle fabrication. This course expands on the knowledge acquired in Motorcycle Service Technology, Welding and Fabrication and in Machine tool Technology. Areas of study will include all aspects of the complete design and fabrication of a custom motorcycle.

Course Credit Hours

Variable hours: No

Credits: 3

Lecture Hours: Instructor: 30 **Student:** 30

Lab: Instructor: 30 **Student:** 30

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

Other: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: Student:

Repeatable for Credit: NO

Grading Methods: Letter Grades

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

College-Level Reading and Writing

College-level Reading & Writing

Requisites

Prerequisite

Academic Reading and Writing Levels of 6; consent required

General Education

Request Course Transfer

Proposed For:

Student Learning Outcomes

fn logged 3/30/10 sj

1. Students will design all components of a custom motorcycle.

Assessment 1

Assessment Tool: Practical Lab Exam

Assessment Date: Fall 2012

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Practical lab exams will be scored using a departmentally-developed rubric.

Standard of success to be used for this assessment: Average of 75% of the students will place at or above the intermediate level.

Who will score and analyze the data: Department members not teaching the course that term will score and analyze the data.

2. Fabricate custom motorcycle frames and frame components.

Assessment 1

Assessment Tool: Practical Lab Exams

Assessment Date: Fall 2012

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Practical lab exams will be scored using a departmentally-developed rubric.

Standard of success to be used for this assessment: Average of 75% of the students will place at or above the intermediate level.

Who will score and analyze the data: Department member not teaching the course that term.

3. Fabricate body components and accessories for custom motorcycles.

Assessment 1

Assessment Tool: Practical Lab Exams

Assessment Date: Fall 2012

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Practical lab exams will be scored using a departmentally-developed rubric.

Standard of success to be used for this assessment: Average of 75% of the students will place at or above the intermediate level.

Who will score and analyze the data: Department member not teaching the course that semester.

Course Objectives

1. Demonstrate proficiency in the design of all components of a custom motorcycle.

Methods of Evaluation

Exams/Tests

Matched Outcomes

2. Develop a sketch that illustrates the components of a safe and visually exciting custom motorcycle.

Methods of Evaluation

Exams/Tests

Matched Outcomes

3. Develop blueprints of all components of the custom motorcycle.

Methods of Evaluation

Exams/Tests

Matched Outcomes

4. Demonstrate proficiency in the fabrication of custom motorcycle frames and frame components.

Methods of Evaluation

Exams/Tests

Matched Outcomes

5. Build custom components that meet the specifications of the design and blueprints.

Methods of Evaluation

Exams/Tests

Matched Outcomes

6. Demonstrate proficiency in the fabrication of custom motorcycle body components and accessories.

Methods of Evaluation

Exams/Tests

Matched Outcomes

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software
Other

Equipment/Facilities

Level III classroom