

## 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

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

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