

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

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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