

Course Discipline Code & No: MST 220 Title: Dynamometer Operations Effective Term Fall 08
 Division Code: VCT Department Code: MST Org #: 14140
 Don't publish: College Catalog Time Schedule Web Page

Reason for Submission. Check all that apply.
 New course approval Reactivation of inactive course
 Three-year syllabus review/Assessment report Inactivation (Submit this page only.)
 Course change

Change information: Note all changes that are being made. Form applies only to changes noted.

Consultation with all departments affected by this course is required. Total Contact Hours (total contact hours were: 105)
 Course discipline code & number (was _____)* Distribution of contact hours (contact hours were:
 *Must submit inactivation form for previous course. lecture: _____ lab _____ clinical _____ other _____)
 Course title (was _____) Pre-requisite, co-requisite, or enrollment restrictions
 Course description Change in Grading Method
 Course objectives (minor changes) Outcomes/Assessment
 Credit hours (credits were: _____) Objectives/Evaluation
 Other _____

Rationale for course or course change. Attach course assessment report for existing courses that are being changed.
 Course was conditionally approved. Seeking full approval.

Approvals Department and divisional signatures indicate that all departments affected by the course have been consulted.

Department Review by Chairperson New resources needed All relevant departments consulted

Print: Michael R. Shute Faculty/Preparer Signature: Michael R. Shute Date: 7-1-08
 Print: Michael R. Shute Department Chair Signature: Michael R. Shute Date: 7-1-08

Division Review by Dean
 Request for conditional approval
 Recommendation Yes No Dean's/Administrator's Signature: [Signature] Date: 7/1/08

Curriculum Committee Review
 Recommendation Tabled Yes No Curriculum Committee Chair's Signature: [Signature] Date: 7/30/08

Vice President for Instruction Approval
 Approval Yes No Conditional Vice President's Signature: [Signature] Date: 8/5/08

Do not write in shaded area.
 Entered in: Banner 8/5 C&A Database 8/5 Log File 4/25/08 Basic skills spreadsheet updated Contact fee
 Please return completed form to the Office of Curriculum & Assessment.

<p>Course MST 220</p>	<p>Course title Dynamometer Operations</p>	
<p>Course description State the purpose and content of the course. Please limit to 500 characters.</p>	<p>Students learn to identify the components and operation of a load control dynamometer. The primary emphasis is on the student learning to use the dynamometer as a diagnostic, data acquisition, and tuning tool. The course will instruct the student in the design and application of various tuning technologies used in current custom fuel and ignition mapping. The student will develop the skills to become proficient in tuning carbureted vehicles.</p>	
<p>Course outcomes List skills and knowledge students will have after taking the course.</p> <p>Assessment method Indicate how student achievement in each outcome will be assessed to determine student achievement for purposes of course improvement.</p>	<p>Outcomes (applicable in all sections)</p> <ol style="list-style-type: none"> 1) Students will demonstrate time and quality proficiency in the safe operation of a load control dynamometer 2) Students will demonstrate time and quality proficiency in the use of a load control dynamometer as a diagnostic, data acquisition, and tuning tool. 	<p>Assessment Methods for determining course effectiveness</p> <p>Final and Practical Lab Exams</p> <p>Final and Practical Lab Exams</p>
<p>Course Objectives Indicate the objectives that support the course outcomes given above.</p> <p>Course Evaluations Indicate how instructors will determine the degree to which each objective is met for each student.</p>	<p>Objectives (applicable in all sections)</p> <p>Identify the components of a load control dynamometer.(outcome #1)</p> <p>Demonstrate the proper procedure for securing motorcycles and ATV's for safe operation within a load control dynamometer. (outcome #1)</p> <p>Demonstrate the proficiency in the use of all controls and software used in the operation of test runs on a load control dynamometer. (outcome #1)</p> <p>To become proficient in the use of a load control dynamometer as a diagnostic tool. (outcome #2)</p> <p>Demonstrate proficiency in the use of a load control dynamometer for data acquisition. (outcome #2)</p> <p>Demonstrate proficiency in the use of a load control dynamometer to properly tune carbureted motorcycles and ATV's. (outcome #2)</p>	<p>Evaluation Methods for determining level of student performance of objectives</p> <p>Demonstrate to instructor and exams</p> <p>Demonstrate to instructor and exams.</p> <p>Demonstrate to instructor and exams</p> <p>Graded on task proficiency and flat rate time efficiency/final exam.</p> <p>Graded on task proficiency and flat rate time efficiency/final exam.</p> <p>Graded on task proficiency and flat rate time efficiency/final exam.</p>

List all new resources needed for course, including library materials.

Student Materials:

List examples of types		Estimated costs
Texts Supplemental reading Supplies Uniforms Equipment Tools Software	SAFETY GLASSES	\$ 10.00

Equipment/Facilities: Check all that apply. (All classrooms have overhead projectors and permanent screens.)

Check level only if the specified equipment is needed for all sections of a course.

<input type="checkbox"/> Level I classroom Permanent screen & overhead projector <input type="checkbox"/> Level II classroom Level I equipment plus TV/VCR <input checked="" type="checkbox"/> Level III classroom Level II equipment plus data projector, computer, faculty workstation	<input type="checkbox"/> Off-Campus Sites <input type="checkbox"/> Testing Center <input checked="" type="checkbox"/> Computer workstations/lab <input type="checkbox"/> ITV <input type="checkbox"/> TV/VCR <input type="checkbox"/> Data projector/computer <input type="checkbox"/> Other _____
---	--

Assessment plan:

Learning outcomes to be assessed (list from Page 3)	Assessment tool	When assessment will take place	Course section(s)/other population	Number students to be assessed
Students will demonstrate time and quality proficiency in the safe operation of a load control dynamometer	Final and Practical Lab Exams	Every 3 rd year to begin Winter 2010.	All	All
Students will demonstrate time and quality proficiency in the use of a load control dynamometer as a diagnostic, data acquisition, and tuning tool.	Final and Practical Lab Exams	Every 3 rd year to begin Winter 2010.	All	All

Scoring and analysis of assessment:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric.

Written final exam will be scored using answer key.
 Practical exam will be scored using the departmentally developed rubric

2. Indicate the standard of success to be used for this assessment.

Average of 70% of the student placements will be at or above the intermediate level. (70% or higher) on both written and practical.

3. Indicate who will score and analyze the data.

Department member not teaching the course that term will score the written test. Practical exam will be scored and analyzed by the instructor .

MASTER SYLLABUS

4. Explain the process for using assessment data to improve the course.

Departmental faculty will review the results of the assessment data. Areas of weakness will be identified and course activities will be adjusted to better prepare the students.