MASTER SYLLABUS

WASHTENAW COMMUNITY COLLEGE

Course Discipline Code & No: CCC201 **Title:** Custom Fabrication & Chassis Design I
Effective Term Fall 2008

Division Code: VCT **Department Code:** CRT **Org #:** 14110

Don't publish: ☐ College Catalog ☐ Time Schedule ☐ Web Page

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

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

Rationale for course or course change. Attach course assessment report for existing courses that are being changed.
This course was conditional approved 1/08 and is coming forward for 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: Jimmy Dodd (Faculty/Preparer) Signature: Jimmy A Dodd Date: 10/12/09

Dept. Chair Recommendation ☑ Yes ☐ No

Print: W. Gary Sobbry (Department Chair) Signature: W. Gary Sobbry Date: 10-14-09

Division Review by Dean
☐ Request for conditional approval

Recommendation ☒ Yes ☐ No _____ (Dean's/Administrator's Signature) 10/15/09 (Date)

Curriculum Committee Review
Recommendation
☐ Tabled ☒ Yes ☐ No Lisa Wass (Curriculum Committee Chair's Signature) 11-3-09 (Date)

Vice President for Instruction Approval

Roger M. Raley. (Vice President's Signature) 11/9/09 (Date)

Approval ☒ Yes ☐ No ☐ Conditional

Do not write in shaded area.
Log File 10/16/09-JJ **Ecopy** ☐ **Banner**_____ **C&A Database**_____ **C&A Log File**_____ **Basic skills** ☐ **Contact fee** ☐ **Please return completed form to the Office of Curriculum & Assessment and email an electronic copy to sjohn@wccnet.edu for posting on the website.**

***Complete ALL sections which apply to the course, even if changes are not being made.**

Course:	**Course title:**
CCC 201	Custom Fabrication & Chassis Design I

Credit hours: 4

If variable credit, give range:

_____ _ to _____ credits

Contact hours per semester:

	Student	Instructor
Lecture:	60	60
Lab:	45	45
Clinical:	___	___
Practicum:	___	___
Other:	___	___
Totals:	105	105

Are lectures, labs, or clinicals offered as separate sections?

☐ Yes - lectures, labs, or clinicals are offered in separate sections

☒ No - lectures, labs, or clinicals are offered in the same section

Grading options:

☐ P/NP (limited to clinical & practica)

☐ S/U (for courses numbered below 100)

☒ Letter grades

Prerequisites. Select one:

☒ College-level Reading & Writing ☐ Reduced Reading/Writing Scores (Add information at Level I prerequisite) ☐ No Basic Skills Prerequisite (College-level Reading and Writing is not required.)

In addition to Basic Skills in Reading/Writing:

Level I (enforced in Banner)

	Course	Grade	Test	Min. Score	Concurrent Enrollment (Can be taken together)	Corequisites (Must be enrolled in this class also during the same semester)
	See below				☐	
☐ and ☐ or					☐	
☐ and ☐ or					☐	
☐ and ☐ or					☐	

Level II (enforced by instructor on first day of class)

	Course	Grade	Test	Min. Score
☐ and ☐ or				
☐ and ☐ or				

Enrollment restrictions (In addition to prerequisites, if applicable.)

☐ and ☒ or Consent required ☐ and ☐ or Admission to program required ☒ and ☐ or Other (please specify):

Program: _____ Completion of the Auto Body Repair (CTAUBR) certificate program with a grade of "B" or better in each course.

Please send syllabus for transfer evaluation to:

Conditionally approved courses are not sent for evaluation.

Insert course number and title you wish the course to transfer as.

☐ E.M.U. as _____

☐ U of M as _____ ___

☐ _____ as _____ _____

☐ _____ as _____

☐ _____ as _____

☐ _____ as _____

Course	Course title
CCC 201	Custom Fabrication & Chassis Design I

Course description State the purpose and content of the course. Please limit to 500 characters.	This course is designed for the student interested in pursing a career in chassis design and assembly as well as metal fabrication as it pertains to the world of custom vehicles. In this class, students will build their skills and proficiency using the tools of the trade such as the iron worker, hand break, foot shear and Beverley sheer. Subjects covered will include installing air bag suspension, choosing wheel/tire offset combinations, raising and lowering suspension, as well as fabricating various custom parts needed to build a custom car.	
Course outcomes List skills and knowledge students will have after taking the course. **Assessment method** Indicate how student achievement in each outcome will be assessed to determine student achievement for purposes of course improvement.	**Outcomes** (applicable in all sections)	**Assessment** Methods for determining course effectiveness
	1. Demonstrate the ability to select and install air bag suspension.	Final Student Project (car)
	2. Determine and perform the correct procedures and techniques required for selection and installation of wheel/tire offset combinations.	Final Student Project (car)
	3. Demonstrate the ability to raise and lower suspension.	Final Student Project (car)
	4. Demonstrate the ability to operate appropriate equipment required to fabricate various custom car parts.	Final Student Project (car)
Course Objectives Indicate the objectives that support the course outcomes given above. **Course Evaluations** Indicate how instructors will determine the degree to which each objective is met for each student.	**Objectives** (applicable in all sections)	**Evaluation** Methods for determining level of student performance of objectives
	(Outcome I) 1. Describe the procedures for selecting and installing air bag suspension. 2. Identify specific application for current build. 3. Properly install air bag suspension.	Test, quizzes and execution of project Instructor review of student performance using NATEF checklist
	(Outcome 2) 1. Identify the correct wheel/tire offset combinations required to assemble build. 2. Select the appropriate offset combinations. 3. Perform correct modification of wheel/tire offset combinations required to assemble build.	Test, quizzes and execution of project Instructor review of student performance using NATEF checklist
	(Outcome 3) 1. Describe the procedures for selecting ride height and suspension adjustment. 2. Identify specific application for current build. 3. Properly regulate desired ride height and adjust suspension accordingly.	Test, quizzes and execution of project Instructor review of student performance using NATEF checklist
	(Outcome 4) 1. Identify the proper selection and operation of equipment required to manufacture custom parts. 2. Operate various types of equipment essential to the process of fabricating custom parts.	Test, quizzes and execution of project Instructor review of student performance using NATEF checklist

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		$

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.

- ☐ Level I classroom
  Permanent screen & overhead projector
- ☐ Level II classroom
  Level I equipment plus TV/VCR
- ☒ Level III classroom
  Level II equipment plus data projector, computer, faculty workstation

- ☐ Off-Campus Sites
- ☐ Testing Center
- ☐ Computer workstations/lab
- ☐ ITV
- ☐ TV/VCR
- ☐ Data projector/computer
- ☐ Other _____

Assessment plan:

Learning outcomes to be assessed (list from Page 3)	Assessment tool	When assessment will take place (semester & year)	Course section(s)/other population	Number students to be assessed
Demonstrate the ability to select and install air bag suspension.	Final Student Project (car)	W/ 10 & every 3 years	All Sections	All students in all sections
Determine and perform the correct procedures and techniques required for selection and installation of wheel/tire offset combinations.	Final Student Project (car)	W/ 10 & every 3 years	All Sections	All students in all sections
Demonstrate the ability to raise and lower suspension.	Final Student Project (car)	W/ 10 & every 3 years	All Sections	All students in all sections
Demonstrate the ability to operate appropriate equipment required to fabricate various custom car parts.	Final Student Project (car)	W/ 10 & every 3 years	All Sections	All students in all sections

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/scoring guide.
   The Final Student project will be scored using a NATEF checklist and the following rubric:

   5 points = Excellent work done with no flaws and without help from instructor, follows safety requirements.
   4 points = Above average work done with little to no flaws and with some help from instructor, follows safety requirements.
   3 points = Average work done with few flaws and some help from instructor. Follows most safety requirements.
   2 points = Either below average work or average work done with substantial help from instructor. Meets minimal safety requirements.
   1 point = Failed to complete task or finished product not to code or student doesn't follow safety requirements.

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

   The standard of success will be an overall class average of 3.5 or higher on the checklist.

3. Indicate who will score and analyze the data (data must be blind-scored).

   Departmental chair and instructors will blind-score the final student project and analyze data.

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

   We will review results to identify if there are areas of weakness or if course content updates are needed.