PROGRAM PROPOSAL FORM

☒ **Preliminary Approval** – Check here when using this form for preliminary approval of a program proposal, and respond to the items in general terms.

☐ **Final Approval** – Check here when completing this form after the Vice President for Instruction has given preliminary approval to a program proposal. For final approval, complete information must be provided for each item.

Program Name:	Custom Fabrication & Chassis Design	**Program Code:** CVCFCD
Division and Department:	VCT	
Type of Award:	☐ AA ☐ AS ☐ AAS ☐ Cert. ☒ Adv. Cert. ☐ Post-Assoc. Cert. ☐ Cert. of Comp.	
Effective Term/Year:	W/08	**CIP Code:** 47.0603
Initiator:	Scott Malnar	

Program Features Program's purpose and its goals. Criteria for entry into the program, along with projected enrollment figures. Connection to other WCC programs, as well as accrediting agencies or professional organizations. Special features of the program.	1) To provide students with a choice in career paths within the Custom Car industry. The fields of Custom Auto Body Technician and Custom Fabrication and Chassis Design are unique career tracks. The division of these programs into separate tracks will better prepare students for employment in their chosen field. 2) Completion of the Auto Body Repair (CFCR) certificate with a B average. Enrollment estimated at 10 in the first year. 3) Accreditations include I-CAR, NATEF, and ASE. 4) The program provides a detailed insight into the industry.
Need Need for the program with evidence to support the stated need.	The existing Custom Cars and Concepts Certificate (CVCCC) is being split into two separate programs, Custom Auto Body Technician and Custom Fabrication and Chassis Design. This will prepare students for the specific type of employment they seek. The one-year enrollment increase in the Auto Body Repair discipline was 17% in 2006-07. The 5-Year change in enrollment (2002-2007) was +113.6%.

Program Outcomes/Assessment	Outcomes	Assessment method
State the knowledge to be gained, skills to be learned, and attitudes to be developed by students in the program. Include assessment methods that will be used to determine the effectiveness of the program.	1. Use advanced custom tools and machinery in chassis building. 2. Utilize industry resources in the design of custom vehicles. 3. Perform metal shaping and fabrication skills in the creation of custom parts. 4. Demonstrate TIG and MIG welding skills used in the building of custom vehicles.	1. Student achievement record and final exam 2. Student achievement record and final exam 3. Student achievement record and final exam 4. Student achievement record and final exam

Please return completed form to the Office of Curriculum & Assessment and email an electronic copy to **sjohn@wccnet.edu** for posting on the website.

Curriculum List the courses in the program as they should appear in the catalog. List minimum credits required. Include any notes that should appear below the course list.	**CCC 201** Custom Fabrication & Chassis Design I — 4 credits **WAF 215** Welding V Advanced GTAW & GMAW — 4 credits **CCC 221** Custom Fabrication & Chassis Design II — 4 credits **CCC 241** Custom Fabrication & Chassis Design III — 6 credits **TOTAL** — 18 credits

Budget

Specify program costs in the following areas, per academic year:

Already exists

	START-UP COSTS	ONGOING COSTS
Faculty	$.	$.
Training/Travel	.	.
Materials/Resources	.	.
Facilities/Equipment	.	.
Other	.	.
TOTALS:	$ 0 .	$.

Program Description for Catalog and Web site

* Custom Fabrication and Chassis Design *

The custom fabrication and chassis design certificate expands on knowledge acquired in the Auto Body Repair program. Students working in a team environment will design, build, complete, and show a project vehicle. Students will learn techniques used in the construction of a custom automotive chassis. Areas of study will include various types of building materials and their uses, measurement, pattern development, mechanical drawing, fastener selection, mig and tig welding, and frame design. Modifications such as boxing, c-notching, motor mount design, and cross member construction will be explored. Additional information on suspension types, their design, and their construction will also be covered. Employment opportunities for students who acquire this certificate may include welder, metal fabricator, specialty shop technician, and race team technician.

Program Information

Accreditation/Licensure - I-CAR, NATEF, and ASE.

Advisors – Gary Sobbry

Advisory Committee – Already in existence

Admission requirements - In order to enroll in this program, students must complete the Auto Body Repair (CFCR) certificate program with a grade of "B" or better in each course.

Articulation agreements - None

Continuing eligibility requirements - None

Assessment plan:

Program outcomes to be assessed	Assessment tool	When assessment will take place	Courses/other populations	Number students to be assessed
1. Use advanced custom tools and machinery in chassis building.	1. Student achievement record and final exam	W/08 & every 3 yrs	All sections	All students in all sections
2. Utilize industry resources in the design of custom vehicles.	2. Student achievement record and final exam	W/08 & every 3 yrs	All sections	All students in all sections
3. Perform metal shaping and fabrication skills in the creation of custom parts.	3. Student achievement record and final exam	W/08 & every 3 yrs	All sections	All students in all sections
4. Demonstrate TIG and MIG welding skills used in the building of custom vehicles.	4. Student achievement record and final exam	W/08 & every 3 yrs	All sections	All students in all sections

Scoring and analysis plan:

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

   The final exam will be scored against the answer sheet. Points will be assigned to each question with the results compared to the scoring guide. Practical application of the task will be evaluated using the Student Achievement Record. Each task is worth 5 points and will be evaluated by the instructor based on the rubric below:

   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 with some help from instructor. Follows all 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 does not follow safety requirements.

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

   The standard of success of student performance and retention will be: 80% of the students will score 85% or higher on final exam and student achievment record. (Final +Achievment Record)/ 2 = 85% or higher).

3. Indicate who will score and analyze the data.

   Department chair and instructors will blind-score the data. We will review to identify if there are areas of weakness or needed changes.

4. Explain how and when the assessment results will be used for program improvement.

   Assessment and update the course content. Analysis will also be done to evaluate the type of instruction used and if we indentify areas of consistent weakness.

REVIEWER	PRINT NAME	SIGNATURE	DATE
Department Chair/Area Director	Gary Sobbry		
Dean	Bruce Greene		1-28-08
Vice President for Instruction ☐ Approved for Development ☒ Final Approval			3/11/08
President			4/28/08
Board Approval			

fr logged 1/31/08 sv
Office of Curriculum & Assessment
fr logged 3/19

Program Information Report

School of Automotive and Motorcycle Technology

Automotive Services

Custom Fabrication and Chassis Design (CVCFCD)

Advanced Certificate

Program Effective Term: **Fall 2008**

The Custom Fabrication and Chassis Design advanced certificate expands on knowledge acquired in the Auto Body Repair program. Students working in a team environment will design, build, complete, and show a project vehicle. Students will learn techniques used in the construction of a custom automotive chassis. Areas of study will include various types of building materials and their uses, measurement, pattern development, mechanical drawing, fastener selection, MIG and TIG welding, and frame design. Modifications such as boxing, c-notching, motor mount design, and cross member construction will be explored. Additional information on suspension types, their design, and their construction will also be covered. Employment opportunities for students who acquire this certificate may include welder, metal fabricator, specialty shop technician, and race team technician.

Program Admission Requirements:
In order to enroll in this program, students must complete the Auto Body Repair (CTAUBR) certificate with a grade of "B" or better in each course.

Major/Area Requirements		(18 credits)
CCC 201	Custom Fabrication and Chassis Design I	4
CCC 221	Custom Fabrication and Chassis Design II	4
CCC 241	Custom Fabrication and Chassis Design III	6
WAF 215	Welding V Advanced GTAW and GMAW	4

Minimum Credits Required for the Program: **18**