FORMAT 1

Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Box 7500). See http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/ for a

complete description of the rules governing curriculum & course changes.

TRIAL COURSE OR NEW COURSE PROPOSAL

<i>SUBMITTED</i> BY	SUE	ΜI	TT	'ED	BY	
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Prepared		logy		ege/School	UAF/	<u></u>		
ру	Julie Wegner	Phone			455-2902			
Email Contact	jmwegner@a	aska.edu	Facu	Faculty Contact		455-29173rian Rencher, 3		
1. ACTION D	ESIRED (CHECK ONE)		L Course		New Co	ourse	xxx	
2. COURSE I	DENTIFICATION:	Dept	DSLT	Course #	F210	No. Credi		2.0
Justify u division number of		Certificate leve	l requirement					
. PROPOSED	COURSE TITLE:		H	leavy Equipmer	nt Fabricat	ion		
YES/NO	DSS LISTED? approval of both res.)	NO departments	If yes Dept and deans	:	Course d lines		f form	for such
. To be ST YES/NO	ACKED ?	NO	If yes Dept		Cours	e #		
. SEMESTER	& YEAR OF FIR	• ST OFFERING		Years) - or FY2012-13	As Deman	d Warran	ts 	
	f approved by				As Deman	d Warran	ts 	
AY2011-12 i therwise AY <i>COURSE FO</i> NOTE: Course compressed in	f approved by 2012-13) RMAT: hours may not b to fewer than s thermore, any co committee. MAT: that apply)	3/1/2012; e compressed ix weeks mus re course co 1 X	into fewer t be approve mpressed to	FY2012-13 than three da d by the col:	ays per o	credit. A	Any cour curric approve 6 wee	lum d by the ks to
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distribution, cross-listings and/or stacking (50 words or less if possible):

Students will learn advanced concepts of industrial fabrication in the maintenance of heavy duty equipment, develop a strong understanding of metals and there applications, and have the ability to bend, heat, and apply welding techniques that will support heavy duty equipment for long term use.

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11. COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with CLA Curriculum Council to apply S or H classification appropriately; otherwise leave fields blank. H = Humanities S = Social Sciences

	Will this course be used to fulfill a requirement	YES:	NO	X
	for the baccalaureate core? If YES, attach form.	<u> </u>		
	IF YES, check which core requirements it could be used to 0 = Oral Intensive, W = Writing Intensive,		ral Scien	ce,
	Format 6 Format 7		Forma	
	COURSE REPEATABILITY:			
	Is this course repeatable for YES NO credit?	x		
	Justification: Indicate why the course can			
	be repeated (for example, the course follows a different theme each time).			
	a different theme each time).			
	How many times may the course be repeated for credit?			TIMES
4.4 YANY 112	If the course can be repeated for credit, what is the maxi number of credit hours that may be earned for this course?			CREDITS
	If the course can be repeated with variable credit, what i	s the		
	maximum number of credit hours that may be earned for this	s course?		CREDITS
	ICTIONS ON ENROLLMENT (if any) PREREQUISITES Basic Industrial Fabrication			
<u> </u>	These will be required before the student is allowed to en	roll in	the cour	
15	-			
	SPECIAL RESTRICTIONS, Department approval ITIONS			
16.	PROPOSED COURSE FEES \$150.00			
	a memo been submitted through your dean to the Provost for	fee	No	
	oval?		Yes	S
Y es/I	o Consumable materials fee			
17. P	REVIOUS HISTORY			
I	Has the course been offered as special topics or trial cour	rse		
	previously?	N	10	
	(es/No			
	If yes, give semester, year, course #, etc.:			
	STIMATED IMPACT WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/S	PACE FA		TC.
, 				
- r	None			
	IBRARY COLLECTIONS			
LJ. 11	TRUMI CONDUCTIONS			

Have you contacted the library collection development officer (kljensen@alaska.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and

services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.

No	x	Yes		Already have book selected for course and checked
				availability

20. IMPACTS ON PROGRAMS/DEPTS

What programs/departments will be affected by this proposed action? Include information on the Programs/Departments contacted (e.g., email, memo)

This class will affect the welding program and diesel technology program. The request is from Brian Rencher, Coordinator for both programs. bkrencher@alaska.edu

21. POSITIVE AND NEGATIVE IMPACTS

Please specify **positive and negative** impacts on other courses, programs and departments resulting from the proposed action.

This course will increase diesel/heavy duty equipment credit courses, which will allow students to learn specific techniques for working on heavy duty equipment. It will allow more students to enroll in the diesel and welding programs with the ability to stay in their specific field of choice and gain pertinent knowledge.

JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. Use as much space as needed to fully justify the proposed course.

This class will teach students advanced skills in industrial fabrication specific to heavy duty equipment. Students will learn to choose the proper materials for the repair, bending and heating techniques, application of welds, etc. to repair heavy duty equipment for long term use. Repairs in and out of the field require special attention to detail to ensure materials are applied in the proper way to withstand the wear and tear on heavy equipment. Adding this course is field specific to our program and will increase our student's knowledge for entering the workforce.

APPROVALS: Add additional signature lines as needed.

1/1/m /1///	Date 10-9-12
Signature, Chair, ////////////////////////////////////	
To Muster	Date 11-6-12
Signature, Chair, College/School Curriculu CTC	
Council for: 10 011	
Mayle Stales	Date
Signature, Dean, College/School CTC	
	Date
Signature of Provost (if applicable)	_

Offerings above the level of approved programs must be approved in advance by the Provost.

ALL SIGNATURES MUST BE OBTAINED PR	IOR TO SUBMISSION	TO THE	GOVERNANCE	OFFICE
		Date		
Signature, Chair Faculty Senate Review Committee:	Curriculum Rev	riew	GAAC	
	Core Review	S <i>l</i>	ADAC	

ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)

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	Date
Signature, Chair, Program/Department of:	
	Date
Signature, Chair, College/School Curriculu Council for:	
PIP	Date 12/3/12
Signature, Dean, College/School CRCO	/ /

DSLT F210 – HEAVY EQUIPMENT FABRICATION

Instructor:	Brian Rencher		
		Hours:	<u>Monday – Friday</u>
Class Dates:		Theory	3:00pm - 5:00pm
Room:	147 Hutch	Dinner	5:00pm – 5:30pm
Office Hours:	2:00pm – 9:00pm	Shop/Lab	5:30pm – 8:30pm
Office Phone:	907-455-2843		
Cell Phone:	907-460-6332		
E-mail:	bkrencher@alaska.edu		

Supplies required:

Reading material:	Welding Principles and Applications
Misc hand tools:	Per handout
Protective clothing:	Coveralls with sleeves
Protective footwear:	Above ankle boots
Eye protection:	Safety glasses
Misc materials:	Paper pad and pen (for instructions)

Course goals:

Students will learn advanced concepts of industrial fabrication in the maintenance of heavy duty equipment, develop a strong understanding of metals and there applications, and have the ability to bend, heat, and apply welding techniques that will support heavy duty equipment for long term use.

Course objectives:

Upon completion of this course, the student should have the following:

- 1. Ability to perform intermediate fabrication skills on equipment
- 2. Identify different types of metals
- 3. Knowledge of heating techniques
- 4. Ability to bend heavy duty metals
- 5. Knowledge of which weld to use when, under what application

Course policies:

- Cell phones are not permitted during class hours (theory or shop/lab).
- A fifteen minute break will be given between theory and shop/lab at 5:00pm. This thirty minute break for lunch is the only allowable breaks without instructor's permission.
- No smoking inside the building or on school property at any time (per CTC/Hutchison Policy)

- All students are governed by the UAF Student Code of Conduct as it is applicable.
- Safety glasses are to be worn at all times in the shop area.
- Textbook, paper pads and pen are to be brought to class every day.
- During a fire alarm, students will gather in the CTC parking area with others from the class and will stay there until authorized by the instructor.
- Students are required to use a time clock when starting the day, going to lunch, returning from lunch and ending the day. Students are also required to keep a daily log of shop/lab projects. This will be discussed on a weekly basis between student and instructor as well as the previous week's grading point.
- Each student is responsible for documenting requirements on procedures in the shop/lab. (Example: When given instruction on a project, it is the student's responsibility to write down the given tasks.)
- All CTC shop tools are to be signed out by the daily assigned Forman of the shop and are to be returned at the end of each day to the instructor/Forman.
- Students are required to be working the entire time while in shop/lab. If your task is complete, you are expected to clean the shop, study text book or service manual, or ask the instructor for a task to fill in time.
- Each student is responsible for cleaning their own work area on a daily basis and keeping it clean and orderly throughout the day. No students are to remove coveralls or leave for the day until the entire shop is clean and authorized by the instructor/Forman.
- When lifting any item over an estimated 40 lbs, ask instructor for approval.
- When using the overhead hoist, cranes, roll around picking hoist or forklift for lifting, you MUST get instructors approval of the rigging before lifting.
- Any student that is injured during class is required to inform the instructor immediately, no matter how minor the injury.
- No earphones or personal music devices are allowed during class theory or shop/lab.
- Students that do not follow the above outlined regulations can be withdrawn from the diesel program by the instructor.

The following is the grading scale for this class.	25%
Attendance	
Instructor Evaluation/Hands on Performance	25%
Ilistitucioi Evaluation Hanas en reference	50%
Exams	
GRADE POINTS	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	F < 69%
A > 90% $B = 8570 = 8770$ $C = 8070 = 0170$	

The following is the grading scale for this class:

Grading policies:

- 25% of your grade will be based on attendance, participation and completed engine performance based on the instructor's evaluation.
- 25% of your grade per week is determined by a once-a-week exam quiz, either written or verbal.

- Grading safety is an important part of this course and this industry, therefore any safety violations will result in a loss of 50% of daily points.
- A student, who is unable to attend class, should call and inform the instructor before class starts or make previous arrangements. This will allow students two points for the missed day. Otherwise zero points will be given for the missed day. Students can call office at 455-2843 if the instructor is not able to be reached.
- If a student is absent, it is their responsibility to get the information that was covered during their absence. The student is expected to take the weekly test/exam at the same time as all the other students in the class regardless of absenteeism.
- Exams/quizzes will be given once a week. Any make-ups will be dealt with on an individual basis.
- Tardiness is defined as up to one hour from class start time and will result in a loss of two points for the day.

This system cannot be altered after the first class meeting. In determining the final grade, I will evaluate the student's performance in the following areas...

50% Attendance, Participation and compilation performance 50% Exams performed on a weekly basis (both theory and lab)

80% Attendance required.

All grades will appear on your transcript. The Office of Admissions and Records maintains transcripts.

NOTICE TO STUDENTS

Support Services

The following services are available to all students: The Writing Center (8th floor, Gruening, 474-5314) and the Math Lab (305 Chapman), both of which provide excellent advice, tutoring and assistance; and/or Office of Student Support Services (508 Gruening, 474-6844). Also available is the Student Assistance Center at CTC which offers many services such as: academic advising, placement testing, career assessment, career counseling, computer support, math labs, tutors/tutoring, and a writing center. The center is located at 604 Barnette St. and is open M-F from 8am-5pm. For more info contact the center at 455-2899.

Disabilities Services

The office of Disability Services, 204 WHIT, 474-7043, implements the Americans with Disabilities Act (ADA), and insures that UAF Students have Equal Access to the campus and course materials. The CTC Office of Student Assistance can also help you if you have any of these concerns. Contact them at 455-2899 if you need help.

UAF Disability Services for Distance Students

UAF has a Disability Services office that operates in conjunction with the Community and Technical College. Disability Services, a part of UAF's Center for Health and Counseling, provides academic accommodations to enrolled students who are identified as being eligible for these services.

Any student who feels discouraged or disappointed with instruction, curriculum or other, please notify the Diesel Coordinator, Brian Rencher at 907-455-2843 or the Student Assistant Coordinator, Michelle Stalder at 907-455-2849.

EMERGENCY PROCEDURES

- 1. Evacuation procedures see instructions posted in the classroom.
- 2. First aid kit located in Equipment Shop 147.
- 3. Emergency ambulance from any available telephone, phone "9" to get an outside line, then "911." In an "Emergency" dial "911"

Campus Police – phone 474-7721

COURSE OUTLINE:

Day 1: Go over Syllabus

Review: Safety - Safety Video Review: Use of oxygen/acetylene torches and plasma torches Review: Metal types Review: Heating metals

- Day 2: Chapter 3 Shielded Metal Arc Equipment Video: Use of shielded metal arc fabrication Lab: Instructor demo – using the shielded metal arc welding machine
- Day 3: Review: Chapter 3 and end of chapter questions in class Chapter 4 – Discussion – shielded metal arc plates Lab: Students practice setting adjustments and using shielded metal arc welding machine
- Day 4: Review: Chapter 4 and end of chapter questions in class Video - Shielded metal arc Lab: Practice welding and changing electrode angles
- Day 5: Theory: Welding positions for types of repairs on trucks and heavy duty equipment Lab: Students practice more welding techniques Test: Written
- Day 6: Theory: Using all combined fabrication skills together metal, heating, bending, cutting, and welding to repair trucks and equipment Lab: Exercise of heating, bending, cutting and welding frame brackets

- Day 7: Review: Previous days lab exercises students analyze their work Lab: Exercise cutting, heating, bending, and welding gusset bracing on trucks and equipment
- Day 8: Theory: Working with frame rails, stress points, drilling, heating, bending and welding Lab: Exercise on frame rails – channel bending, cutting, and welding
- Day 9: Review past 8 days Theory: Inspecting cracks and welds on trucks and equipment Lab: Exercise – continuation on frame rails and bracing

Day10: Test - Written and hands on in lab

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I ______ have received a copy of the DSLT F210 "Heavy Equipment Fabrication" class syllabus and have read and understand the class rules and testing procedures.

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Date

Instructor's signature

Date

Student's signature