WASHTENAW COMMUNITY COLLEGE COURSE-SYLLABUS APPROVAL FORM (CSAF)

HVA 204

For help screens, select a field and press F1 SECTION I. SUBMISSION INFORMATION

1. Course: (Enter proposed discipline, number & title here.)				
Discipline/No: HVA 204 Title: Central Heating Plants				
Banner allows only 29 characters and spaces, for the title. Longer titles will have to be abbreviated. Start Term Fall 2003	-			
Division Code: HAT Department Code: WAFD Org #: 14750 Don't publish: Tin College Catalog				
2. Type of Approval: (applies to both pay course and the second of the s	<u>e</u>			
Extrem Course Approval (Skip 4 and go directly to 5.)				
Someticanal Annual Prive-year Synabus Review I No changes to course (Submit complete syllabus)				
Migor Change (s) (Submit Complete Syllabus)				
This proposal previously received conditional approval Minor Change(s)* (For fully approved courses, submit revised sections only.)	nusly Reactivation of Inactive Course Reactivation of Inactive Course			
for the term: Inactivation (Submit this page only.)				
*If requesting a change to a course that has conditional approval, please submit a complete syllabus	٤.			
4. Change Information: (Check all that apply. Make proposed changes in Section III, Course Syllabus.)				
Minor Changes (will be reviewed by Curriculum Committee.)				
Course Discipline/Number (was) Credit hours (credits were:				
Course Title (was)				
and a sum of the country with the countr)			
Class Capacity (was:) Pre or Co-requisites Approval for offering an Honors Section (Attach Approval For Approval for offering Distance Learning Sections (Attach	rm.)			
Course Objectives (minor changes) Distance Learning Distance Learning Sections (Attach Distance Learning Approval Form)				
Distribution of Contact Hours (contact hours were: General Education Distribution Course: Add Remove	٦			
lect:labother) (Attach General Education Course Approval Form)	!			
Other Pre or Co-requisites (that affect other departments)				
5. Rationale: (for new course or course change) Changes are are being made in response to data from Assessment: yes no	一			
Required course for the HVAC-R Commercial Advanced Certificates.				
SECTION II. SIGNATURES 1. Department Pository (To be concluded by the second s				
1. Department Review (To be completed by department chair) Will any pay recovered by required 2. No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10				
Will any new resources be required? No, none anticipated Yes (If yes, attach list with projected costs) You must consult all departments that may be affected by this course. List departments contacted below and attach relevant				
documents.				
Does the department support approval of this course?	e.)			
Print: Thomas Achatz Signature The Old	, ,			
Faculty/Preparer Date: 4/22/1003				
Print: William Figg Signature //// Date: Character Signature	,			
Department Chair Department Chair				
2. Division Review (To be completed by division dean; if recommendation is no, initial and return to department with rationale.)				
Is this a curricular priority for your division? Yes no (Comment)			
What is the estimated annull mant 1 1	-			
What is the estimated enrollment? 16 students per semester				
	former.			
Recommendation Yes No Dean's/Administrator's Signature No Dean's/Administrator's Signature Date Date	****			
Recommendation Yes No State 4/22/03				
Recommendation Yes No Dean's/Administrator's Signature Date 3. Curriculum Committee Review (Attach additional comments if necessary and forward to Executive Vice President.) Recommendation Yes No	none moneo moneo freduncia			
Recommendation Yes No Dean's/Administrator's Signature Dean's/Administrator's Signature Date 3. Curriculum Committee Review (Attach additional comments if necessary and forward to Executive Vice President.) Recommendation Yes No Curriculum Committee Chair's Signature Date	monación mon			
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Recommendation Yes No Dean's/Administrator's Signature Date 3. Curriculum Committee Review (Attach additional comments if necessary and forward to Executive Vice President.) Recommendation Yes No Curriculum Committee Chair's Signature Date 4. Vice President for Instruction and Student Services Approval (Atach/additional comments if necessary.)	manación de la composición del composición de la composición de la composición de la composición del composición de la c			
Recommendation Yes No Dean's/Administrator's Signature Dean's/Administrator's Signature Dean's/Administrator's Signature Dean's/Administrator's Signature Dean's/Administrator's Signature Dean's/Administrator's Signature Curriculum Committee Chair's Signature Dean's/Administrator's Signature Curriculum Committee Chair's Signature Dean's/Administrator's Signature Dean's/Administrator's Signature Dean's/Administrator's Signature Dean's/Administrator's Signature Curriculum Committee Chair's Signature Dean's/Administrator's Signature Dean's/Administrator's Signature Dean's/Administrator's Signature Dean's/Administrator's Signature Curriculum Committee Chair's Signature Dean's/Administrator's Sign				
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SECTION III. COURSE SYLLABUS

A. COURSE DETAILS (Start with #1.)

For help screens press F1.

Discipline & No.: <u>HVA 204</u> T Course and title will automatically appear	itle: Central Heating Plants	**************************************			
1. Description: (Please be brief, E.	xnlain acronyms if used \				
This course provides an introduction to large boiler system operation. Topics covered include: low and high pressure boilers; boiler heat exchangers; fuels; combustion; heat exchangers; pumps; large boiler control systems; water treatment; air handling equipment; maintenance; and troubleshooting.					
2. Credit Hours:3 If Variable credit, Give Range: to credits If repeatable for credit, how many times	2. Contact Hours per Semester: Lecture: 30 Lab: 30 Clinical: Other: Total Contact Hours: 60	4. Class Capacity: (If nonstandard, attach Class Capacity Exception form.)	5. Course Options: Distance learning (Attach DL Form) Honors (Attach Honors Addendum.) P/NP Grading		
	*Concurrent Enrollment Test Name	Min. **Level Score ")" I II	Other Prerequisites		
			Advanced Certificate Core Classes		
			Consent Required 7. Corequisites: (limit of 2)		
* Can take prerequisite before or concurrently with this course. **Level I is enforced in Banner; Level II is enforced by instructor on 1st day of class.					
8. Course Purpose: Program Requirement General Education Program Support Basic Skills/Developmental Transfer Industry/Professional Dev Enrichment	If a program requirement, specify the program(s) HVAC-R Industrial Advanced Certificate	Please send syllabus for Transfer evaluation to: EMU UM Ferris State	Accepted for transfer: (attach documentation) EMU UM UM		
9. Terms Course will be offered: Terms Session Leng Session Leng	th (e.g. 15 weeks, 1 st 7½ weeks, etc.)	Ever Day Eve only Signature of the control of the	only Odd years		
 B. MAJOR INSTRUCTIONAL UNITS A major instructional unit is a grouping of topics that naturally relate to one another. Add additional numbers as needed. (This section is unprotected so that you can cut and paste from other documents. Low pressure boilers High pressure boilers 					

- 3 Boiler heat exchangers
- 4 Boiler fuels and combustion
- 5 Pumps
- 6 Large boiler control systems
- 7 Water treatment
- 8 Air handling equipment
- 9 Maintenance
- 10 Troubleshooting
- 11 Safety precautions