WASHTENAW COMMUNITY COLLEGE COURSE-SYLLABUS APPROVAL FORM (CSAF)

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

SECTION I. SUBMISSION INFORM	ATION				
1. Course: (Enter proposed discipline, proposed dis	: Central Cooling Plants	Start Term Fall 2003	~~~		
	nd spaces, for the title. Longer titles w				
Division Code: HAT Depart	ment Code: WAFD Org #:	14/50 ☐ in Time Schedule ☐ on Web Pa	age		
2. Type of Approval: (applies to both new courses and changes) Full Approval Conditional Approval This proposal previously received conditional approval for the term:	 New Course Approval (Skip ☐ Five-year Syllabus Review ☐ ☐ Major Change(s) (Submit con ☐ Minor Change(s)* (For fully ☐ Reactivation of Inactive Cour ☐ Inactivation (Submit this page) 	No changes to course (Submit complete syllabus mplete syllabus) approved courses, submit revised sections only.) rse e only.)	3)		
		as conditional approval, please submit a complete syllab	us.		
4. Change Information: (Check all that Minor Changes Course Discipline/Number (was Course Title (was Course Description Class Capacity (was: Course Objectives (minor change Distribution of Contact Hours (course Course (minor change Distribution of Contact Hours (course Course Cour	Major Cha Credit h Change Total Cool Approve Approve Approve Approve General Other (Attach Cool Change Chang	anges (will be reviewed by Curriculum Committee.) nours (credits were:) in Grading Method ontact Hours (total contact hours were:) al for offering an Honors Section (Attach Approval I al for offering Distance Learning Sections (Attach Learning Approval Form) Education Distribution Course: Add Remove General Education Course Approval Form) Co-requisites (that affect other departments)			
			F1		
5. Rationale : (for new course or course change) Changes are are being made in response to data from Assessment: yes no Required course for the HVAC-R Industrial Advanced Certificates.					
Required course for the 11 vive in mou	stria ravancea Confidences.				
SECTION II. SIGNATURES	de de veloció por recelor a destribilidades elembros del destribuidad qui destribuidad (destribuidad de destribuidad de destri				
1. Department Review (To be comple Will any new resources be required You must consult all departments the documents.	? No, none anticipated Yes	(If yes, attach list with projected costs) t departments contacted below and attach relevant			
Does the department support approver Print: Thomas Achatz Faculty/Prepa Print: William Figg	rer Signature Signature	no (if no, initial and return to preparer with ration Date: $\frac{4/2\imath/\imath o}{2}$	nale.)		
Department C	nair UU	10/20 119			
2. Division Review (To be completed Is this a curricular priority for your What is the estimated enrollment?	division? yes no (Comment	s no, initial and return to department with rationale))		
	Dean's/Administrator's Signature	Date /			
	Attach additional comments if necessar	y and forward to Executive Vice President.)			
Recommendation Yes No	Curriculum Committee Chair's Sig				
4. Vice President for Instruction and	Student Services Approval Attack	additional comments if necessary.)	2		
Approval Yes No	Wice Fesident's Signature	78/U	2		
ACS Code Entered in 1	Banner / 36 Entered in Access	5/9 Log File 15/5			
Approved for General Education Area/Group		Syllabus Date Processes - 2 - 1			

WASHTENAW COMMUNITY COLLEGE COURSE-SYLLABUS APPROVAL FORM (CSAF)

HVA 206

SECTION III. COURSE SYLLABUS

A. COURSE DETAILS (Start with #1.)

For help screens press F1.

Discipline & No.: HVA 206 Title: Central Cooling Plants Course and title will automatically appear above upon saving or previewing					
1. Description: (Please be brief. Explain acronyms if used.) This course provides an introduction to large scale cooling operations. Topics covered include: absorption systems including ammonia and lithium bromide; water chillers; cooling towers; air handling systems; pumps; control systems; maintenance; and					
troubleshooting.	or chimers, cooming towers, an mandming	systems, pumps; control syst	ems; maintenance; and		
2. Credit Hours:3 If Variable credit, Give Range: to credits	3. Contact Hours per Semester: Lecture: 30 Lab: 30 Clinical:	4. Class Capacity: (If nonstandard, attach	5. Course Options: Distance learning (Attach DL Form)		
If repeatable for credit, how many times	Other: Total Contact Hours: 60	Class Capacity Exception form.)	☐ Honors (Attach Honors Addendum.) ☐ P/NP Grading		
6. Prerequisite(s) Min and/or "(" Course Grade	*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 co **Level I is enforced in Banner; Le	ncurrently with this course. vel II is enforced by instructor on 1st day	y of class.			
8. Course Purpose: Program Requirement General Education Program Support Basic Skills/Developmental Transfer	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		
☐ Industry/Professional Dev☐ Enrichment					
∀ Fall Winter Say(S)	th (e.g. 15 weeks, 1 st 7½ weeks, etc.)	Day Eve onl	years Odd years y only		
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.					
 Ammonia absorption sy Lithium bromide absorption Water chillers Cooling towers Air handling systems Pumps Control systems 	ystems	23 and paste from other	accanicitis.		
8 Maintenance					

9

10

Troubleshooting

Safety precautions