Course Discipline Code & No: EWA220	Title: Instrumentat	ion	Effective Term Fall 2009
Division Code: VCT	Department Code:	UASD	Org #: <u>282</u> 00
Don't publish: College Catalog	⊠Time Schedule	⊠Web Page	
Reason for Submission. Check all that apply New course approval Three-year syllabus review/Assessment in Course change	report	Reactivation of inactivation (Submit	t this page only.)
Change information: Note all changes that	at are being made. Fo	orm applies only to ch	nanges noted.
□ Consultation with all departments affected required. □ Course discipline code & number (was	ious course.	Distribution of conta	ent on
Rationale for course or course change. Att			
Approvals Department and divisional signature Department Review by Chairperson	es indicate that all departures nee		course have been consulted. t departments consulted
Print: Daw Welch Faculty/Preparer Print: Department Chair	Signature	D. Welch	Date: 2/2/0 9
Division Review by Dean	NEW YORK OF THE PROPERTY OF TH		
☐ Request for conditional approval Recommendation ☐ Yes ☐ No	ean's/Administrator's S	elch	2/2/09 Date
Recommendation Yes No No	Urriculum Committee C	Chair's Signature	3/18/09 Date
Vice President for Instruction Approval Approval Yes No Conditions	ice Pesident's Signature	Palsey	3/19/09 Batte
<i>'</i>		1 %	Basic skills Contact fee D to sjohn@wccnet.edu for posting on the website

Office of Curriculum & Assessment

Approved by Assessment Committee 10/06

MASTER SYLLABUS

Course:	which apply to the course, even	if changes are not bein	g made.		
EWA220	Course title:				
EWA220	Instrumentation				
Credit hours: 1 If variable credit, give range: to credits	Contact hours per semester: Student Instructor Lecture: _15 _/5 Lab:	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 & practical) □S/U (for courses numbered below 100) ⊠Letter grades		
Prerequisites. Select one:			L		
College-level Reading & Writing Reduced Reading/Writing Scores (Add information at Level I prerequisite) College-level Reading and Writing is not required.)					
In addition to Basic Skills in R	eading/Writing:				
		Min. Score Concurr Enrollm Can be taken t	ent Must be enrolled in this class		
Level II (enforced by instructor o	on first day of class) Course	Grade Test	Min. Score		
and or and or					
Enrollment restrictions (In add	ition to prerequisites, if applicable.)				
Enrollment restrictions (In add	ition to prerequisites, if applicable.) □and ⊠or Admission Program: <u>I</u>	to program required BEW 252 Apprenticeship	□and □or Other (please specify):		
Please send syllabus for tran Conditionally approved courses	□and ⊠or Admission Program: <u>I</u> sfer evaluation to:		• • •		

Course	Course title			
EWA220	Instrumentation			
Course description State the purpose and content of the course. Please limit to 500 characters.	Students learn the fundamentals of process control systems. Topics include instrument symbols, test procedures, instrument calibration, installation, and documentation. Students learn measure pressure, temperature, flow, and levels as well as how to calculate expected readings using range and span information. This course is taught at the IBEW local training center and is only open to apprentices accepted into a program.			
Course outcomes	Outcomes	Assessment		
List skills and knowledge	(applicable in all sections)	Methods for determining course effectiveness		
Assessment method Indicate how student achievement in each outcome will be assessed to determine student achievement for purposes of course improvement.	After successful completion of this course, the student will be able to: 1. Explain how instrumentation is installed, maintained, and calibrated 2. Explain how instrumentation is used in automatic process control 3. Present method of making a calibration chart and determine types of errors	This course is assessed externally by the local's Joint Apprenticeship Training Committee (JATC), consisting of NECA representatives (industry) and IBEW members. The local receives feedback on needed technical updates and apprentice skill performance.		
Course Objectives	Objectives	Evaluation		
Indicate the objectives that support the course	(applicable in all sections)	Methods for determining level of student performance of objectives		
outcomes given above. Course Evaluations	Objectives and methods of evaluation follow the curriculum set out by the National Joint Apprentice Training Committee (NJATC).			
Indicate how instructors will determine the degree to which each objective is met for each student.				

List all new resources needed for course, including library materials.

All resources for the pro gram are in place at the Local 252 Training Center.

Student Materials:

	Student Materials:		
	List examples of types	All books and supplies provided through the IBEW Local 252 Training Center.	Estimated costs
	Texts		\$0
-	Supplemental reading		* 0
į	Supplies		
	Uniforms		
	Equipment		
	Tools		
	Software		

MASTER SYLLABUS

Equipment/Facilities: Check all that a	apply. (All classrooms have overhead pr	ojectors and permanent s	screens.)			
Check level only if the specified equipme	Off-Campus Sites					
course.	Testing Center					
Level I classroom Permanent screen & overhead project	ctor					
r ermanent sereen ee overneau projec		Computer workstations/lab				
Level II classroom		ITV				
Level I equipment plus TV/VCR		TV/VCR				
Level III classroom		☐Data projector/comp	ater			
Level II equipment plus data project	or, computer, faculty workstation	⊠Other <u>Local 252 Trai</u>	ning Center			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Assessment plan:						
Learning outcomes to be assessed	Assessment tool	When assessment	Course	Number		
(list from Page 3)		will take place	section(s)/other	students to		
1. Explain how instrumentation is	Contractors (employer) provide	(semester & year) Fall 2011 and every	population All	be assessed All		
installed, maintained, and	paper feedback forms for apprentice	three years thereafter.		1 M		
calibrated	skill performance reviews.					
2. Explain how instrumentation is used in automatic process control						
3. Present method of making a	JATC contractor members provide					
calibration chart and determine	specifications detailing technical updates.					
types of errors	upuates.					
Scoring and analysis of assessmen	**					
Scoring and analysis of assessmen						
1. Indicate how the above assessme	ent(s) will be scored and evaluated (e	e.g. departmentally dev	eloped rubric, extern	nal		
evaluation, other). Attach the ru			orogod nazio, chican			
Apprentice feedback forms filled	out by the employing contractor.					
2. Indicate the standard of success	to be used for this assessment.					
	1 1 1745					
The standard of success is set by	the local JATC.					
3. Indicate who will score and analy	ze the data (data must be blind-scor	red).				
	5					
The data is analyzed by the JATC	as a committee.					
4. Explain the process for using ass	essment data to improve the course	•				
Regulte are initially shared with the	ne training coordinator for the local.	The training according	ator then would with			
appropriate instructor staff to ma		The training coordina	nor men works with			