	VCT	Department Co		Org #: <u>28200</u>
Don't publish:	College Catalog	⊠Time Schedu	le ⊠Web Page	
⊠New course	yllabus review/Assessmen	•	Reactivation of inactive of Inactivation (Submit this	
Change informa	tion: Note all changes t	that are being made.	Form applies only to chang	es noted.
required. Course disci *Must subm Course title Course desci Course object	pline code & number (was nit inactivation form for properties) (was	evious course.	Distribution of contact h	clinical other) e, or enrollment restrictions od
Rationale for co	urse or course change. A	Attach course assessn	nent report for existing cour	ses that are being changed.
 			epartments affected by the cour	
Department	Review by Chairperson Faculty/Preparer	New resources i		Date: 2/2/
Department	Review by Chairperson Page 15 Preparer Department Chair	New resources i	needed All rejevant dep	Date: 2/2/
Department Print: Print: Division Rev	Review by Chairperson Faculty/Preparer Department Chair iew by Dean or conditional approval tion Yes No	New resources i	needed All rejevant dep	Date: 2/2/
Print: Print: Division Rev Request for Recommendate	Review by Chairperson Faculty/Preparer Department Chair iew by Dean or conditional approval tion Yes No Committee Review	New resources of Signature Signature Signature	Nelcher's Signature	Date: Date:
Print: Print: Print: Division Rev Request for Recommendat Curriculum (Recommendat Tabled Vice Presider	Review by Chairperson Faculty/Preparer Department Chair iew by Dean or conditional approval tion Yes No Committee Review tion	Signature Signature Dean's/Administrator Curriculum Committe val Vice Prosident's Signa	Nelce All rejevant der Welce 's Signature Chair's Signature	Date: Date:

Office of Curriculum & Assessment

Approved by Assessment Committee 10/06

MASTER SYLLABUS

Course:	which apply to the course, even Course title:	in changes are not bein	g made.	
EWA260	Applied Science			
E W 1200	Аррией Зсиенсе			
Credit hours: 3 If variable credit, give range:	Contact hours per semester: Student Instructor	Are lectures, labs, or clinicals offered as separate sections?	Grading options: □P/NP (limited to clinical & practical) □S/U (for courses numbered below 100) □Letter grades	
tocredits	Lecture: 45 \$\mathcal{45}\$ Lab:	☐ Yes - lectures, labs, or clinicals are offered in separate sections ☐ No - lectures, labs, or clinicals are offered in the same section		
Prerequisites. Select one:				
⊠College-level Reading & Writ	ing Reduced Reading/ (Add information at Le	· ·	No Basic Skills Prerequisite (College-level Reading and Writing is not required.)	
In addition to Basic Skills in I	Reading/Writing:			
Level I (enforced in Banner)		Nr. 0		
Course	Grade Test	Min. Score Concur Enrollm Can be taken	Must be enrolled in this class	
Annual Control of the				
			4	
Level II (enforced by instructor	on first day of class)			
	Course	Grade Test	Min. Score	
and or				
	dition to prerequisites, if applicable.)			
Enrollment restrictions (In add	□and ⊠or Admission	n to program required IBEW 252 Apprenticeship	□and □or Other (please specify):	
Enrollment restrictions (In add	□and ⊠or Admission Program: nsfer evaluation to:		•	
Enrollment restrictions (In add	□and ☑or Admission Program: nsfer evaluation to: es are not sent for evaluation.		•	
Enrollment restrictions (In add	□and ☑or Admission Program: nsfer evaluation to: es are not sent for evaluation.			

Course	Course title			
EWA260	Applied Science			
Course description State the purpose and content of the course. Please limit to 500 characters.	This course prepares apprentices in the electrical trades to accurately apply principles of science to their work. Topics include: the structure of matter, the physical characteristics to copper and aluminum as conductor materials, the atomic structure of conductors versus insulators (dielectrics), temperature-pressure enthalpy diagrams for heating and cooling cycles, and light propagation in fiber optic media. 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 students will have after taking the course. Assessment method Indicate how student achievement in each outcome will be assessed to determine student achievement for purposes of course improvement.	(applicable in all sections) After the successful completion of these courses, the student will be able to: 1. Present atomic structure of matter 2. Discuss how atomic structure affects conductivity and resistance 3. Present fundamental physics of temperature, pressure, sound, and light 4. Apply physics to refrigeration systems, audible alarm devices, and fiber optic communications	Methods for determining course effectiveness 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 Indicate the objectives that support the course	Objectives (applicable in all sections)	Evaluation Methods for determining level of student performance of objectives		
Course Evaluations Indicate how instructors will determine the degree to which each objective is met for each student.	Objectives and methods of evaluation follow the curriculum set out by the National Joint Apprentice Training Committee (NJATC).			

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

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

Student Materials:

Diddelit IIIMiciimioi	LEADERS OF THE CONTROL OF THE CONTRO	
List examples of types	All books and supplies provided through the IBEW Local 252 Training Center.	Estimated costs
Texts		\$ 0
Supplemental reading		# 0
Supplies		
Uniforms		
Equipment		
Tools		
Software		

MASTER SYLLABUS

Equipment/Facilities: Check all tha	t apply. (All classrooms have overhead p	projectors and permanent	screens.)		
Check level only if the specified equip	ment is needed for all sections of a	Off-Campus Sites			
course.		Testing Center			
Level I classroom	ingtor	Computer workstation	one/lab		
Permanent screen & overhead pro	jector	<u>-</u>	1115/1210		
Level II classroom					
Level I equipment plus TV/VCR		TV/VCR			
Level III classroom		Data projector/computer			
Level II equipment plus data proje	Other Local 252 Training Center				
,	•		<u>-</u>		
Assessment plan:					
Learning outcomes to be	Assessment tool	When assessment	Course	Number	
assessed		will take place	section(s)/other	students to be	
(list from Page 3)		(semester & year)	population	assessed	
1. Present atomic structure of matter	Contractors (employer) provide	Fall 2011 and every	All	All	
2. Discuss how atomic structure affects conductivity and resistance	paper feedback forms for apprentice	three years thereafter.			
3. Present fundamental physics of	skill performance reviews.				
temperature, pressure, sound, and	JATC contractor members provide				
light	specifications detailing technical				
4. Apply physics to refrigeration	updates.				
systems, audible alarm devices, and fiber optic communications	•				
			<u> </u>	Land in the second is	
Scoring and analysis of assessm	ent:				
1. Indicate how the above assess	ment(s) will be scored and evaluated	(e.g. departmentally de	veloped rubric, exte	ernal	
evaluation, other). Attach the		(01)	1		
·					
Apprentice feedback forms fill	ed out by the employing contractor.				
2. Indicate the standard of succes	ss to be used for this assessment.				
		ı			
The standard of success is set	by the local JATC.				
2 To diameter and a series of the	-land the data (data masset he blind as	omad)			
3. Indicate who will score and an	alyze the data (data must be blind-sc	oreuj.			
The data is analyzed by the JA	TC as a committee.				
, , , , ,					
4. Explain the process for using a	assessment data to improve the cour	se.			
Results are initially chared with	the training coordinator for the loc	al. The training coordi	nator then works w	ith	
appropriate instructor staff to	ai. The training cooldi	mator then works w	****		
Tr-r-					