Associates Degree in Specialized Technology in Glazing CIP Code 47-2121.00

Beginning Academic Year 2016-2017, students accepted to the glaziers apprenticeship will automatically enrolled in the Glaziers Associate in Specialized Technology Degree Program. The requirements for that program are as follows:

ALL CREDIT HOURS ARE SEMESTER CREDITS

Course Number	Course Name	Course Description	Class Hours	Intern Hours	Credit Hours
	Architecture	This course will build upon the students' basic mathematics.	nours	nours	nours
	and Blueprints,	trigonometry, measurement skills and knowledge by			
		accurately using math when reading blueprints. Reading			
		blueprints, measuring, layout, fabrication and other functions			
ARCH143		specific to the glazing trade require accurate calculations and			
		measurements for the success of any glazing job. Reading			
		blueprints and tape rules or taking other measurements			
		accurately will lead to properly cut glass or aluminum and will			
		contribute to a timely and successful job.	36	200	2
	Architecture	This class engages students in application of architectural			
ARCH243	and Blueprints	drawings and blueprints as they work in teams to complete a			
	Ш	steel structural glazing project.	36	200	2
	Oral	This course provides instruction and experience in			
	Communication	preparation and delivery of presentations in public settings			
		and group discussions. Emphasis is placed on research,			
COM112		preparation, delivery, and evaluation of informative,			
0000112		persuasive, and special occasion public speaking. Upon			
		completion, students will be able to design and deliver well-			
		organized presentations and participate in group discussions			
		with appropriate audiovisual support.	45	40	3
	Internship Year	This course consists of paid OJT, internship, or practicum			
	One	performed in a business, industry, trade, or technical career			
		setting within the student's occupational area. The contact			
CONT130		hours experienced through on-the-job training will be verified			
		by an employer or union official and will be placed on the			
		college student's record. There are specific categories of work		(
		experience as noted in the internship column.	0	(1500)	3
	Internship Year	This course consists of paid OJT, internship, or practicum			
	Two	performed in a business, industry, trade, or technical career			
		setting within the student's occupational area. The contact			
CONT140		hours experienced through on-the-job training will be verified			
		by an employer or union official and will be placed on the			
		conege student's record. There are specific categories of work	0	(1500)	2
	Internchin Veer	This source consists of noid QIT internship column.	0	(1500)	5
	Three	nis course consists of paid OJT, internship, of practicum			
CONT150	intee	setting within the student's occupational area. The contact			
		bours experienced through on the job training will be verified			
		hy an employer or union official and will be placed on the			
		college student's record. There are specific categories of work			
		experience as noted in the internshin column	0	(1500)	3
			0	(1500)	2

	Four	performed in a business, industry, trade, or technical career			
		setting within the student's occupational area. The contact			
		hours experienced through on-the-iob training will be verified			
		by an employer or union official and will be placed on the			
		college student's record. There are specific categories of work			
		experience as noted in the internship column.			
	Written	This course provides instruction and experience in			
	Communication	preparation and delivery of written communication in			
		workplace and personal settings. Emphasis is placed on the			
ENL111		writing process including production of unified, coherent.			
		well-developed essays, letters and memos using standard			
		written English.	48	40	3
	Environmental	This environmental science course will enable students to	-	-	_
ENVS113	Technologies	develop practices that save energy; reduce the production of			
		waste: use environmentally friendly products and materials:			
		recycle materials: adopt sustainable strategies: work to			
		protect employee health and safety: and adopt other			
		practices, technologies and high-performance work processes			
		that reduce carbon emissions while retaining good jobs at			
		family-sustaining wages.	45	40	3
	History of	This course will use feature-length films to take an in-depth	-	-	_
	Labor Through	look at key issues pertaining to working people in the United			
	Film	States, the role of organized labor and the challenges faced by			
		unions and their members. Students will view fiction and non-			
		fiction films that portray incidents in the history of American			
HUM210		labor. We will study the work lives and labor unions of			
		miners, dockworkers, packinghouse workers, textile workers			
		and farm workers among others. We will also discuss the			
		meaning of the events depicted in the films by situating them			
		within a historical context.	45	40	3
	Fundamentals	An introduction to computers and the fundamentals of			
	of Computers	operating systems and software programs. Provides hands-on			
11101		experience with computer applications including word			
		processing, spreadsheets, electronic mail, and the Internet.	45	40	3
	Math for Trade	This course begins with the basic facts of arithmetic and			
	Unionists	continues through some of the early stages of algebra.			
		Reviewing and practicing these basic mathematical concepts			
		are intended to help all tradesmen use math to his/her			
		advantage and to avoid making costly mistakes on the job.			
MA1199		Participants in this course will learn to competently add,			
		subtract, multiply and divide decimal fractions, have a basic			
		understanding of percentages and the Pythagorean Theorem,			
		as well as the ability to describe and measure basic angles,			
		polygons and triangles using a protractor.	46	200	3
MAT299	Applied	Course content includes the fundamental processes of			
	Mathematics	mathematics with emphasis on problem-solving techniques.			
		Included is introductory algebra, rudiments of analytic			
		geometry, and elementary trigonometry.	40	200	2
PAT140	Intro to Glazing	This course is designed to provide an introduction to glazing			
		and the tools of the trade. Students will learn fundamentals			
		of the glazing industry including the different purposes			
		windows serve in a building's design, trade terminology,			
		symbols, trade tools and materials. Students will learn the			
		management of glass cutting projects.	50	500	2
PAT141	Sealant Theory	This course is designed to provide an introduction to sealants			
	and Application	used in the glazing trade. Students will learn sealant			
		terminology, selection, forms, and their proper and most			
		effective use for a given project. The basic principles	32	200	2

regarding joint design and measurements as w	ell as the		
proper substrate preparation techniques will b	e discussed.		
Additionally, students will learn the basics of st	ructural		
glazing including its methods, applications and	safety factors.		
Glass This course is designed to build basic skills and	knowledge		
Eabrication necessary for fabricating glass including mirror	s spandrel		
glass architectural nanels and Ribbon Window	Systems		
PAT142 Students will also learn the purpose and techni	iques for		
anodizing aluminum surfaces that often surrou			
installations	10 giass 10	800	2
Installation This course is designed to introduce the glazier	to curtain wall	800	2
installation, installation methods, practices and testing star	dorde		
Layout and Instanation methods, practices and testing star	iuarus.		
PAT241 Students will also learn the basics of aluminum	entrances,		
Controls storefront installations, Ribbon window installa	ations and the		
use of transits, levers and lasers. All aspects of	installation		
and layout will be discussed as well as building	control basics. 48	2500	3
Specialties in This course is designed to enhance the basic sk	ills of a glazier		
the Glazing in performing specialty work. Specialized glazin	ng work may		
Trade include aquarium and shower door installation	, auto glass		
PAT243 work, glass shelving, Herculites, stained glass a	nd clear story.		
Glaziers will learn techniques and procedures a	as well as safety		
regulations and safe handling of all materials a	nd		
installations.	40	400	2
Welding This course prepares students for 3G and 4G ce	ertifications in		
Certification welding. Students must pass these certification	ns through the		
American Welding Society (AWS) certification r	program in		
order to complete the course. Students will lea	arn how to		
PAT249 prepare all related applications and paperwork	as well as the		
requisite welding samples. Students will have t	the		
opportunity to practice their techniques on sim	ulators as well		
as actual welding equipment	80	100	4
Safety in the This course provides entry level construction w	orkers with a	100	
Construction general awareness on how to recognize and pr	event hazards		
Trades	rioty of		
SFT110 SFT110	verker may		
constituction safety and field in field in field us that a w	both OSUA10		
encounter at a construction site. Students ear		100	2
allu basic First Ald/CPR certifications.	40	100	Z
Elevated The main objective of this course is to prevent	workplace		
Platforms injuries and fatalities related to falls. This cours	se covers the		
potential hazards related to working on raised	or unstable		
SFT112 platforms. The types of tools and equipment for	or elevating		
oneself and one's work materials are identified	I. Selection,		
inspection, setup, safe techniques and proper r	maintenance of		
equipment are discussed.	40	100	2
Advanced This course is designed to provide safety aware	eness and		
Safety practices for workers within all trade areas. Stu	idents will gain		
Techniques useful exposure and knowledge to basic safety	practices		
SFT210 including but not limited to First Aid/CPR, First	Aid/AED		
(Automatic External Defibrillator), respiratory p	protection, fall		
protection and safety protocol when using pow	ver tools.		
Students will earn their OSHA 30 certification.	40	100	2
Leadership and This course prepares students to take an active	role in the		
Organizational construction industry by learning how to use effectively and the second	ffective		
Development communication and planning to make better up	se of human		
SOSC131 and physical resources in the work place to effe	and the set of a sume		
	ectively form		
and lead highly motivated teams and to foster	a safe and		
and lead highly motivated teams and to foster productive work environment.	a safe and 48	200	3

Students receive 12 credits for their internship.