



Charleston Regional Youth Apprenticeships

AT TRIDENT TECHNICAL COLLEGE



INDUSTRIAL MECHANICS

	Fall	Spring
Academic Year 1	IMT 210 Basic Industrial Work Skills I	IMT 104 Schematics
	IMT 211 Basic Industrial Work Skills II	IMT 161 Mechanical Power Applications
	<i>OJT (5-15 hours)</i>	<i>OJT (5-15 hours)</i>
Summer	<i>Full-time Employment</i>	
Academic Year 2	MAT 170 Algebra, Geometry & Trigonometry	IMT 160 Preventive Maintenance
	IMT 151 Piping Systems	IMT 132 Hydraulics
	IMT 124 Pumps	IMT 163 Problem Solving for Mechanical Applications
	<i>OJT (5-15 hours)</i>	<i>OJT (5-15 hours)</i>



MACHINE TOOL TECHNOLOGY

	Fall	Spring
Academic Year 1	EGT 106 Print Reading & Sketching	MTT 145 Machining of Metals
	IET 223 Industrial Safety	MTT 112 Machine Tool Theory & Practice II
	MTT 111 Machine Tool Theory & Practice I	MTT 143 Precision Measurements
	<i>OJT (5-15 hours)</i>	<i>OJT (5-15 hours)</i>
Summer 1	MTT 250 Principles of CNC	
	MTT 251 CNC Operations	
	MTT 253 CNC Programming & Operations	
	<i>OJT (5-15 hours)</i>	
Academic Year 2	EGT 151 Introduction to CAD	EGT 152 Fundamentals of CAD
		EGT 252 Advanced CAD
	<i>OJT (Up to Full-Time Employment)</i>	<i>OJT (Up to Full-time Employment)</i>

Due to the design of the Machine Tool Certificate Program with required classes only being offered in the summer, the full time employment portion was moved to Academic Year 2



CYBERSECURITY

	Fall	Spring
Academic Year 1	CPT 282 Information Systems Security	IST 190 Linux Essentials
	IST 293 IT and Data Assurance I	IST 191 Linux System Administration
	<i>OJT (5-15 hours)</i>	<i>OJT (5-15 hours)</i>
Summer	<i>Full-time Employment</i>	
Academic Year 2	IST 268 Computer Forensics	IST 291 Fundamentals of Network Systems
	IST 165 Implementing Windows Directory	IST 294 IT and Data Assurance II
	IST 269 Digital Forensics	IST 292 Fundamentals of Network Systems II
	<i>OJT (5-15 hours)</i>	<i>OJT (5-15 hours)</i>



CULINARY ARTS

	Fall	Spring
Academic Year 1	CUL 104 Introduction to Culinary Arts *	CUL 112 Classical Foundations of Cooking
	CUL 105 Kitchen Fundamentals *	CUL 118 Nutritional Cooking
	<i>OJT (5-15 hours)</i>	<i>OJT (5-15 hours)</i>
Summer	<i>Full-time Employment</i>	
Academic Year 2	CUL 123 American Bistro	CUL 216 International Cuisine
	CUL 215 Cuisine of the Americas	CUL 186 Mediterranean Cuisine
		CUL 188 Italian Regional Cuisine
	<i>OJT (5-15 hours)</i>	<i>OJT (5-15 hours)</i>

* Students may be awarded college credit for completion of high school culinary courses.

ENGINEERING 2+2

	Fall	Spring
Academic Year 1	EGR 275 Intro to Engineering/Computer Graphics	CHM 110 College Chemistry I *
	MAT 110 College Algebra *	MAT 111 Trigonometry *
	<i>OJT (5-15 hours)</i>	<i>OJT (5-15 hours)</i>
Summer	<i>Full-time Employment</i>	
Academic Year 2	EGR 202 Intro to Engineering Programming	PHY 221 University Physics I
	ENG 101 English Composition I *	ENG 102 English Composition II *
	MAT 140 Analytic Geometry & Calculus I *	
	<i>OJT (5-15 hours)</i>	<i>OJT (5-15 hours)</i>

* *Students may be awarded college credit with qualifying high school AP scores.*

Students must complete the high school 4-course PLTW sequence. IED & POE will count as EGT 265 & ECE 201 at college.

ENGINEERING TECHNICIAN

	Fall	Spring
Academic Year 1	EGT 151 Intro to Computer Aided Design (CAD)	EGR 290 Numerical Applications in Eng. Technology
	MAT 170 Algebra, Geometry & Trigonometry I	EGT 152 Fundamentals of CAD
	<i>OJT (5-15 hours)</i>	<i>OJT (5-15 hours)</i>
Summer	<i>Full-time Employment</i>	
Academic Year 2	EGR 110 Intro to Computer Environment	EET 113 Electrical Circuits I
	ENG 101 English Composition I *	SPC 209 Interpersonal Communication
	<i>OJT (5-15 hours)</i>	<i>OJT (5-15 hours)</i>

* *Students may be awarded college credit with qualifying high school AP scores.*

Students must complete the high school PLTW courses IED & POE, which will count as EGT 265 & EGR 104 at college.



CNA to PRE-NURSING

	Courses to be Completed	
Summer	XNUR-501 Certified Nursing Assistant & XNUR-503 Patient Care Technician	
Academic Years 1 & 2	ENG 101 English Composition I *	MAT 110 College Algebra -- OR -- MAT 120 Probability & Statistics *
	BIO 210 Anatomy & Physiology I	BIO 211 Anatomy & Physiology II
	PSY 201 General Psychology *	PSY 203 Human Growth & Development
	<i>OJT (5-15 hours)</i>	<i>OJT (5-15 hours)</i>
Summer	<i>Full-time Employment</i>	

* *Students may be awarded college credit with qualifying high school AP scores.*

Students may begin Nursing Program upon completion of academic courses in Pre-Nursing Certificate.



STERILE PROCESSING TECHNICIAN

	Fall	Spring
Academic Year 1	HS Health Science 2	XSUR-501 Sterile Processing Technician
	<i>OJT (5-15 hours)</i>	<i>OJT (5-15 hours)</i>
Summer	<i>Full-time Employment</i>	
Academic Year 2	Communication Course *	Humanities, Social Science or Fine Arts Course *
	Mathematics Course *	Science Course
	<i>OJT (5-15 hours)</i>	<i>OJT (5-15 hours)</i>

* *Students may be awarded college credit with qualifying high school AP scores.*

Students must complete the high school Health Science 2 course, which is required for the apprenticeship.