



College: Southside Virginia Community College
School Divisions: Lunenburg County

Career Cluster: Manufacturing

Career Pathway: Industrial Service Technology - Diploma

Related Industry Certifications Available: NATE; ARI;

HVAC Excellence; EPA Refrigerant; Ward Flex; NCCT



	Grade	English	Math	Science	S.S.	Required Courses or Recommended Electives and/or CTE Courses				
SECONDARY <i>Career Coaching</i>	9	English 9	Algebra Part I & Part II	Earth Science					Health/PE 9	
	10	English 10	Geometry	Chemistry OR Biology	World Geography				Health/PE 10	
	11	English 11	Algebra II (Recommended)	Chemistry	U. S. History	<i>Principles of Technology I</i>	<i>Electronics Systems I</i>	<i>High Performance Manufacturing I</i>		
						AIR 121	ELE 113 (ELE 121)	MAC 161		
						ITE 100 (IT EEE)	ETR 110 (EEE Tech Elect)	MAC 128		
						DRF 135 (WEL EEE)	DRF 127 (WEL EEE)	MAC 131 (AIR 123)		
	12	English 12 *	Calculus (Recommended)		Government *	<i>Principles of Technology II</i>	<i>Electronics Systems II</i>	<i>High Performance Manufacturing II</i>		
						AIR 122	ETR 149 (AIR 136)	MAC162 (EEE Tech Elect)		
						AIR 159 (AIR 135)	IND 140 (BLD 105)	MAC 132 (EEE Gen Elect)		
						MTH 103 (MTH EEE)	ETR 167	MAC 150		
College Placement Assessments (Reading, Writing, & Math)										
POSTSECONDARY <i>Community College Career Placement</i>	Year 1 1 st Sem	ENG 137 Communication Processes I	MTH General Education Math Elective			AIR 121 Air Conditioning and Refrigeration I	BLD 105 Shop Practices and Procedures	ELE 121 Electrical Currents I	EEE Technical Elective	
	Year 1 2 nd Sem						SDV 100 College Success Skills			
							AIR 122 Air Conditioning and Refrigeration II	AIR 134 Circuits and Controls	EEE Technical Elective	ELE 211 Electrical Machines I
						ELE 127 Residential Wiring Methods				

4-year Institution	Year 1 Summer									
	Year 2 1st Sem					AIR 117 Metal Layout I OR Approved Technical Elective	MAC 161 Machine Shop OR Practices I OR EEE Approved Technical Elective	WEL EEE Elective (Both DRF 135 & DRF 127 required)	EEE Approved General Education Elective	
						IT_ EEE Elective				
	Year 2 2nd Sem				SSC 101 Contemporary Social Problems I	AIR 123 Air Conditioning and Refrigeration III OR EEE Technical Elective	AIR 135 Circuits and Controls II	AIR 154 Heating Systems I	AIR 181 Planning and Estimating I	
						EEE Technical Elective				
	Year 2 Summer									
	Year 3 1st Sem				SSC 102 Contemporary Social Problems II	AIR 124 Air Conditioning and Refrigeration IV OR Technical Elective	AIR 136 Circuits and Controls III OR EEE Technical Elective	AIR 200 Hydraulics OR Technical Elective		
		University/College:				Key	Required Course		Certification Prep Course	
		Degree or Major:					Dual Credit or Articulated course (HS to CC)		*Academic Dual Enrollment	
		Number of Articulated CC Credits:					Articulated course: CC to 4-yr		Date: July 2006	

Academic DE Courses	
DE English	College composition I & II
DE Government	Social Science Elective

Guidelines
DRF 127 and DRF 135 are required to get 3 credits for a technical elective
DPOR Tradesman Certification available after two years employment in HVAC