



**College:** Southside Virginia Community College **Career Cluster:** Architecture and Construction

**School Divisions:** Brunswick County

**Career Pathway:** Air Conditioning Heating & Refrigeration - Diploma

**Related Industry Certifications Available:** NATE; ARI; HVAC Excellence; EPA Refrigerant; Ward Flex

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

	<b>Year 1 Summer</b>								
	<b>Year 2 1<sup>st</sup> Sem</b>				SSC 101 Contemporary Social Problems I	AIR 154 Heating Systems I	AIR 123 Air Conditioning and Refrigeration III	AIR 135 Circuits and Controls II	AIR 181 Planning and Estimating I
									EEE Technical Elective
	<b>Year 2 2<sup>nd</sup> Sem</b>				SSC 102 Contemporary Social Problems II	AIR 155 Heating Systems II	AIR 124 Air Conditioning and Refrigeration IV	AIR 136 Circuits and Controls III	AIR 200 Hydronics <b>OR</b> EEE Technical Elective
						EEE Approved General Education Elective			
<b>Year 2 Summer</b>									
<b>4-year Institution</b>	University/College:					<b>Key</b>	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

DE Courses	
DE English	College Composition I & II
DE Government	Social Science Elective

Guidelines
DPOR Tradesman Certification available after two years employment in HVAC