Air Conditioning and Refrigeration A.A.S.

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	STUDENT PROGRESS	
	Grade	Term Completed
Area I — Written Composition: 3		
• ENG 101 - English Composition I 3	_____	_____
Area II — Humanities and Fine Arts: 3		
• Humanities and Fine Arts Elective*: 3	_____	_____
Area III — Natural Science or Mathematics: 6		
• INT 104 - Principles of Technology 3	_____	_____
• MTH 100 - Intermediate College Algebra **OR** numerically higher 3	_____	_____
Area IV — History, Social and Behavioral Sciences: 3		
• Economics, Geography, History, Political Science, Psychology, or Sociology 3	_____	_____
Area V - Technical Courses: 22		
Courses listed below are required.		
• ACR 111 - Principles of Refrigeration 3	_____	_____
• ACR 112 - HVACR Service Procedures 3	_____	_____
• ACR 113 - Refrigeration Piping Practices 3	_____	_____
• ACR 121 - Principles of Electricity for HVACR 3	_____	_____
• ACR 122 - HVACR Electric Circuits 3	_____	_____
• ACR 123 - HVAC/R Electrical Components 3	_____	_____
• EET 100 - Introduction to Engineering Technologies 3	_____	_____
• ORI 101 - Orientation to College 1	_____	_____
Additional Coursework: 39		
• ACR 119 - Fundamentals of Gas Heating Systems 3	_____	_____
• ACR 120 - Fundamentals of Electric Heating Systems 3	_____	_____
• ACR 126 - Commercial Heating Systems 3	_____	_____
• ACR 125 – Fundamentals of Gas and Electrical Heating Systems 6	_____	_____
• ACR 127 - HVACR Electric Motors 3	_____	_____
• ACR 128 - Heat Load Calculations 3	_____	_____
• ACR 130 - Computer Assisted HVAC Troubleshooting 1	_____	_____
• ACR 132 - Residential Air Conditioning 3	_____	_____
• ACR 133 - Domestic Refrigeration 3	_____	_____
• ACR 134 - Ice Machines 3	_____	_____
• ACR 135 - Mechanical/Gas/Safety Codes 3	_____	_____

	Grade	Term Completed
• ACR 138 - Customer Relation in HVAC 3	_____	_____
• ACR 144 - Basic Drawing and Blueprint Reading in HVAC 3	_____	_____
• ACR 147 - Refrigerant Transition and Recovery Theory..... 3	_____	_____
• ACR 148 - Heat Pump Systems I 3	_____	_____
• ACR 149 - Heat Pump Systems II 3	_____	_____
• ACR 152 – Heat Pump Systems..... 6	_____	_____
• ACR 181 - Special Topics in ACR I 3	_____	_____
• ACR 182 - Special Topics in ACR II 3	_____	_____
• ACR 183 - Special Topics in ACR 1	_____	_____
• ACR 184 - Special Topics in ACR 1	_____	_____
• ACR 185 - Special Topics in ACR 2	_____	_____
• ACR 186 - Special Topics in ACR 2	_____	_____
• ACR 192 - HVAC Apprenticeship/Internship..... 3	_____	_____
• ACR 200 - Review for Contractors Exam..... 3	_____	_____
• ACR 202 - Special Refrigeration Systems 3	_____	_____
• ACR 203 - Commercial Refrigeration..... 3	_____	_____
• ACR 205 - System Sizing and Air Distribution 3	_____	_____
• ACR 209 - Commercial Air Conditioning Systems 3	_____	_____
• ACR 210 - Troubleshooting HVACR Systems 3	_____	_____
• CIS 146 - Microcomputer Applications..... 3	_____	_____
• MDT 105 - Introduction to Computer-Aided Design (CAD) **OR** DDT 104 –Basic Computer-Aided Drafting and Design 3	_____	_____
• EET 103 - DC Fundamentals **OR** INT 101 - DC Fundamentals..... 3	_____	_____
• EET 104 - AC Fundamentals **OR** INT 103 - AC Fundamentals 3	_____	_____
• SPH 106 - Fundamentals of Oral Communication 3	_____	_____

Total Hours Required for Degree:..... 76

NOTICE(s): For the A.A.S. Degree in Air Conditioning and Refrigeration, the student must complete a minimum of 76 credit hours – a minimum of 61 in technical courses and a minimum of 15 in general education courses – all of which must be approved by the advisor. A maximum of 9 credit hours of technical electives may be selected from any approved area of Engineering Technology programs with prior written approval from the student's major advisor. Technical courses may vary to meet student needs and to provide options. Admission Requirement: High school diploma or GED.

***Note:** Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.