

Associate in Applied Science

Air Conditioning Technology



Name	Empl. ID	Date Entered	Date Grad

DEVELOPMENTAL COURSES AS NEEDED		Notes
RDG 20/100	3-6	
ENC 90/100	2-5	
MAT 55/61	3-4	

GENERAL EDUCATION COURSES	Credit	Res	Tr	Notes
Quantitative Reasoning	3			MAT 105 or higher level
Natural Sciences	3			
Social and Behavioral Sciences	3			
Heritage/Humanities	3			
ENG 101 Writing I	3			
GENERAL EDUCATION SUBTOTAL:	15			

TECHNICAL CORE COURSES	Credit	Res	Tr	Notes
Digital Literacy (or bypass exam)	0-3			
ACR 100 Refrigeration Fundamentals <i>AND</i> ACR 101 Refrigeration Fundamentals Lab	5			Recommended first semester
EET 119 Basic Electricity* <i>OR</i> (ACR 102 HVAC Electricity <i>AND</i> ACR 103 HVAC Electricity Lab)	5			Recommended first semester Prereq: MAT 55
ACR 130 Electrical Components <i>AND</i> ACR 131 Electrical Components Lab	5			Prereq: EET 119 or ACR 102 with C May take concurrently with EET 119
ACR 170 Heat Load/Duct Design	3			
ACR 250 Cooling and Dehumidification <i>AND</i> ACR 251 Cooling and Dehumidification Lab	5			Prereq: ACR 100 & 101 with grade of C or better
ACR 260 Heating and Humidification <i>AND</i> ACR 262 Heating and Humidification Lab	5			Prereq: ACR 102 & 103 with grade of C or better
ACR 270 Heat Pump Application <i>AND</i> ACR 271 Heat Pump Application Lab	5			Prereq: ACR 100 & 102 with grade of C or better or instructor consent
ACR 290 Journeyman Preparation	3			
Air Conditioning Technology Electives	10-12			
TECHNICAL CORE SUBTOTAL:	45-51			
TOTAL DEGREE CREDITS	60-66			

*Comparable Electrical Courses	Credit	Res	Tr	Notes
EET 154 Electrical Construction I <i>AND</i> EET 155 Electrical Construction I Lab	4			
ETT 112 Basic Electrical Theory: Telenetworking <i>AND</i> ETT 113 Basic Electrical Theory Lab	4			
ELT 110 Circuits I	5			
IMT 110 Industrial Maintenance Electrical Principles <i>AND</i> IMT 111 Industrial Maintenance Electrical Principles Lab	5			

**Air Conditioning Technology Electives	Credit	Res	Tr	Notes
This list is not all inclusive. Other courses may be taken with approval of the program instructor/advisor.				
ACR 112 Sheet Metal Fabrication	3			
ACR 113 Sheet Metal Fabrication Lab	2			
ACR 291 Special Problems I	1			
ACR 293 Special Problems II	2			
ACR 295 Special Problems III	3			
ACR 298 Practicum	2			
ACR 299 Cooperative Education Program	2			
BAS 160 Introduction to Business	3			
BAS 267 Business Law	3			
BEX 100 Basic Electricity for Non-Majors	3			
BEX 101 Basic Electricity Lab for Non-Majors	2			
BRX 110 Basic Blueprint Reading for Machinist	2			
BRX 112 Blueprint Reading for Machinist	4			
BRX 120 Basic Blueprint Reading	3			
BRX 210 Mechanical Blueprint Reading for Machinist	2			
BRX 220 Blueprint Reading for Construction	3			
EET 150 Transformers	2			
EET 151 Transformers Lab	1			
EET 198 Practicum	2			
EET 250 National Electric Code	4			
EET 252 Electrical Construction II	2			
EET 254 Electrical Construction	3			
EET 254 Electrical Construction Lab	4			
EET 264 Rotating Machinery	2			
EET 265 Rotating Machinery Lab	2			
EET 266 Rotating Machinery and Transformers	3			
EET 267 Rotating Machinery and Transformers Lab	3			
EET 268 Rotating Machinery Electrical Motor Controls I	3			
EET 269 Rotating Machinery and Motor Controls I Lab	4			
EET 270 Electrical Motor Controls I	2			
EET 271 Electrical Motor Controls I Lab	2			
EET 272 Electrical Motor Controls II	2			
EET 273 Electrical Motor Controls II Lab	2			
EET 274 Electrical Motor Controls	3			
EET 275 Electrical Motor Controls Lab	4			
EET 276 Programmable Logic Controllers	2			
EET 277 Programmable Logic Controllers Lab	2			
EET 281 Special Problems I	1			
EET 283 Special Problems II	2			
EET 285 Special Problems III	3			
EET 286 Programmable Logic Controllers II	2			
EET 287 Programmable Logic Controllers II Lab	2			
EET 298 Practicum	1-8			
EET 299 Cooperative Education Program	1-8			

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ELT 102 Blueprint Reading	2			
ELT 106 Mechanical Engineering Graphics	2			
ELT 107 Computer Applications for Technicians	4			
ELT 114 Circuits II	5			
ELT 118 Computer Numerical Control	3			
ELT 122 Mechanical Power Transmission Systems	3			
ELT 124 Mechanical Power Transmission Systems Lab	1			
ELT 201 Statics and Strength of Materials	4			
ELT 232 Computer Software Maintenance	3			
ELT 234 Computer Hardware Maintenance	3			
ELT 244 Electrical Machinery and Controls	4			
ELT 250 Programmable Logic Controllers	4			
ELT 261 Instrumentation and Measurements	3			
ELT 264 Mechanical Design	4			
ELT 265 Applied Fluid Power	3			
ELT 290 Selected Topics in Engineering Technology: (Topic)	1-4			
ELT 295 Independent Problems	1-2			
ETT 110 Voice and Data Installer Level I	4			
ETT 114 Voice and Data Installer Level II	4			
ETT 116 Fiber Optics Systems	3			
FPX 100 Fluid Power	3			
FPX 101 Fluid Power Lab	2			
IMT 100 Welding for Maintenance	3			
IMT 101 Welding for Maintenance Lab	2			
ISX 100 Industrial Safety	3			
MNG 123 Mining Electricity I	4			
PLB 100 Basic Theory of Plumbing	3			
PLB 105 Plumbing Principles	3			
PLB 150 Plumbing, Introduction to the Trade	3			
PLB 151 Basic Plumbing Skills	3			
PLB 262 Backflow Prevention	3			
WLD 152 Basic Welding B	5			
WLD 100 Oxy-Fuel Systems	2			
WLD 101 Oxy-Fuel Systems Lab	2			
WLD 110 Cutting Processes	2			
WLD 111 Cutting Processes Lab	2			
WLD 120 Shielded Metal Arc Welding	2			
WLD 121 Shielded Metal Arc Welding Fillet Lab	2			

For a list of KCTCS general education classes in each category, go to

<https://kctcs.edu/education-training/course-catalog/2019-2020-KCTCS-Catalog.pdf> pp. 77-80

Or KCTCS Homepage (www.kctcs.edu)> education & training> course catalog> 2019-2020 KCTCS Catalog> pp. 77-80.