

ASSOCIATE OF APPLIED SCIENCE (A.A.S.)

GATEWAY COMMUNITY COLLEGE UNOFFICIAL ADVISEMENT CHECK SHEET

Description: The Associate in Applied Science (AAS) in Air Conditioning/Refrigeration/Facilities program is designed to provide training in the areas of heating, ventilation, air conditioning and refrigeration (HVAC/R) systems, electricity, electronic controls and instrumentation, hydronics, electro-mechanical devices, and general repair. Students will have an opportunity to learn skills necessary to assess and solve problems quickly, based upon an understanding of regulatory guidelines. The program provides students an opportunity to develop written and verbal communication skills through general education courses.

Program notes: Students must earn a grade of C or better for all courses within the program.

+ indicates course has prerequisite and/or corequisites.

NAME	SID	LAST REVISED DATE	MAJOR CODE: 3211 AIR CONDITIONING/ REFRIGERATION/FACILITIES
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I. GENERAL EDUCATION REQUIREMENTS (22-27 CREDITS)			
	CREDITS	GRADE	COMMENTS
Must earn "C" or higher in all courses within the program			
ENG101 or 107	3		
ENG102 or 108 or 111	3		
COM100 or COM 110 or COM 225 or COM 230	3		
CRE101 or 111 or Test Exempt	0-3		
Humanities	3		
Social & Behavioral	3		
CHM130 and 130LL or PHY101 or PHY111	4		
+ MAT140, MAT141, MAT142, MAT145, or MAT146 Equivalent or higher level mathematics course in the Mathematical Applications [MA] area. 3-6	3 - 6		
II. REQUIRED COURSES			
FALL - HVAC RESIDENTIAL INSTALLATION AND SERVICE (5241)		6.5 – 9.5	
+HVA101 HVAC for Residential Systems I	4		
+ CON105 Construction Calculations	1.5		
+ CON107 Construction Drawings Introduction	1.0		
OSH105AA CONSTRUCTION SAFETY OR OSH106AA INDUSTRIAL SAFETY OR CON 271 OR PROOF OF OSHA 30 HOUR CARD	0 - 3		
SPRING		16.5 – 17.0	
+HVA102 HVAC for Residential Systems II	5		
+CON/HVA131 Electrical Systems	3.5		
+HVA120 HVAC Installation	4		
+HVA130 HVAC Troubleshooting	4		
HVA104 EPA Section 608 Technician Preparation and Certification (0.5) OR Proof of EPA Certification 0-0.5	0 – 0.5		
FALL - HVAC COMMERCIAL INSTALLATION AND SERVICE (5242)		14.0	
+CON235 Motors: Theory and Application (4) OR ELC/FAC115 Motors, Controls and Wiring Diagrams (3) AND ELC/FAC115LL Motors, Controls and Wiring Diagrams Lab (1)	4		
+FAC186 ELECTRO-MECHANICAL DEVICES	3		
+ FAC/HVA210 Facilities Air Conditioning Systems	4		
+ FAC/HVA231 Codes	3		
SPRING		11.0	
+ FAC220 Controls and Instrumentation	4		
+ FAC235 Commercial Air and Water Test and Balance	4		
<i>This is an unofficial advisement checksheet developed by the Industrial Technology Division. No certificate or degree is considered official until it has been reviewed and approved by the Enrollment Services Department.</i>			

The official curriculum outline for this program is located on the Maricopa Community Colleges Curriculum & Transfer Articulation site at:

<http://aztransmac2.asu.edu/cgi-bin/WebObjects/MCCCD.woa/wa/freeForm13?id=162750>