

Bachelor of Science Degree
HVACR Engineering Technology
Course Sequence Guide

Student:			
Email:		ID:	
Advisor:		Ph:	

YEAR 3 - FALL SEMESTER			Crs	Gr
HVAC	331	Secondary System Select-Design (Admission to BS in HVACR Engineering Technology)	4	
HVAC	342	Load Calculation & Energy Code (Admission to BS in HVACR Engineering Technology)	4	
ARCH	110	Intro to Computer Graphics in ARCH for HVACR Students	2	
MATH	126	Algebra & Analytical Trig. (MATH 116)	4	
		Social Awareness Elective	3	
Total			17	
YEAR 3 - SPRING SEMESTER			Crs	Gr
HVAC	312	Control Theory & Application (C- or better in HVAC 331, MATH 116 or 120)	4	
HVAC	350	Contracting Issues in HVACR (C- or better in HVAC 331, MATH 116 or 120)	4	
HVAC	362	Primary Equipment Selection (C- or better in HVAC 331, MATH 116 or 120)	4	
		Scientific Understanding Elective	4	
MATH		Students who took MATH 115 or 116 in fall take MATH 126 or 130		
Total			16	
YEAR 3 - SUMMER SEMESTER			Crs	Gr
HVAC	393	Summer Internship (C- or better in HVAC 312, 350 & 362)	4	
Total			4	
Submit Application for Graduation.				
YEAR 4 - FALL SEMESTER			Crs	Gr
HVAC	415	Direct Digital Control (C- in MATH 126 or 130, HVAC 393)	4	
HVAC	451	Energy Audit and Analysis [WIC] (C- in MATH 126 or 130, HVAC 393)	4	
COMM	221	Small Group Decision Making	3	
		Cultural Enrichment Elective	3	
Total			14	
YEAR 4 - SPRING SEMESTER			Crs	Gr
HVAC	499	Commercial HVAC System Design [WIC] (C- or better in HVAC 415 and 451)	5	
ECON	221	Principles of Economics 1	3	
		Cultural Enrichment Elective	3	
		Directed Elective	3	
Total			14	

Students must complete 40 credits at or above the 300 level in the bachelor program. Three credits of 300 level coursework must be taken in the social awareness and/or cultural enrichment courses to meet this requirement. From among the cultural enrichment and social awareness coursework, at least one global consciousness course and one REG course must be taken.



Bachelor of Science Degree HVACR Engineering Technology

Program Academic Requirements

Student:							Code	Location	Crs		
email:					ID:						
Advisor:					Ph:						
							1	Transfer			
MAJOR					Cr	Gr	Pts	S	Yr	Code	Notes
HVAC	312	Control Theory & Application (C- or better in HVAC 331, MATH 116 or 120)			4						
HVAC	331	Secondary System Select-Design (Admission to BS in HVACR Engineering Technology)			4						
HVAC	342	Load Calculation & Energy Code (Admission to BS in HVACR Engineering Technology)			4						
HVAC	350	Contracting Issues in HVACR (C- or better in HVAC 331, MATH 116 or 120)			4						
HVAC	362	Primary HVAC Equipment Selection (C- or better in HVAC 331, MATH 116 or 120)			4						
HVAC	393	Summer Internship (C- or better in HVAC 312, 350 & 362)			4						
HVAC	415	Direct Digital Control (C- or better in MATH 126 or 130, HVAC 393)			4						
HVAC	451	Energy Audit and Analysis [WIC] (C- or better in MATH 126 or 130, HVAC 393)			4						
HVAC	499	Commercial HVAC System Design [WIC] (C- or better in HVAC 415, 451)			5						
TECHNICAL RELATED											
ARCH	110	Intro to Cmptr Graphics in ARCH for HVACR Students			2						
		Directed Elective (See Your Advisor)			3						
COMMUNICATIONS COMPETENCE											
COMM	221	Small Group Decision Making			3						
QUANTITATIVE SKILLS											
MATH	126	Algebra & Analytical Trig. (C- or better in MATH 116)			4						
SCIENTIFIC UNDERSTANDING											
		Scientific Understanding Elective			4						
CULTURAL ENRICHMENT											
		Cultural Enrichment Elective			3						
		Cultural Enrichment Elective			3						
SOCIAL AWARENESS											
		Social Awareness Elective			3						
ECON	221	Principles of Economics 1			3						
Unofficial Statistics											
				Major: Total Crs / Earned Crs / Honor Points	37						
				Degree: Total Crs / Earned Crs / Honor Points	65						
				GPA Major:	-						
				GPA Degree:	-						

Bachelor of Science General Education Requirements:

One Global Consciousness Course (3cr), One Race - Ethnicity - Gender (REG) Course (3cr), and One Foundation Course (3cr)

Multiple requirements may be satisfied by a single course.

Cultural Enrichment – 9 credits (3 credits in course > 200 level), Social Awareness - 9credits (3 credits in course > 200 level)

Students must complete 40 credits at or above the 300 level. [Reference: http://www.ferris.edu/htmls/academics/gened/gen_edspecific.html]

Contact the HVACR Program office
for more information!
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