

MODEL ROUTE

School:

School of Engineering Technology and Applied Science - SDRE

Program Title:

Heating, Refrigeration and Air Conditioning Technician

Program Delivery Mode:

☐ Co-Op

☐ Fast Track

☒ Non Co-op

☐ Online

☐ Hybrid

Program Number:

3825

Credential:

☐ Certificate

☒ Diploma

☐ Graduate Certificate

☐ Advanced Diploma

☐ Degree

Duration :

☐ 2 Semesters

☒ 4 Semesters

☐ 8 Semesters

☐ 3 Semesters

☐ 6 Semesters

Campus:

Progress Campus

Intake:

Fall 2023/Winter 2024

Course Code	Course Title	Co/Pre Requisite (Course Code)	Lab Hours	Lecture Hours	Field Placement Hours	Course Delivery ODL=Online BLD=Blended HYB = Hybrid	Total Course Hrs (Lab + Lecture + Field)	Weeks (14)	Total Hours
Semester 1	Fall 2023/Winter 2024								
HRAC111	Acts, Regulations and Procedures		2	4		HYB	6	14	84
HRAC112	Fundamentals of Cooling Cycles	CO=HRAC113	2	2			4	14	56
HRAC113	Mechanical Cooling Cycle	CO=HRAC112	2	2		HYB	4	14	56
HRAC124	Pipe Joining & Installation for Heating & Cooling		2	2			4	14	56
MATH101	Mathematics 1		0	4		HYB	4	14	56
COMM160/161	College Communication 1		0	3			3	14	42
								Total	350
Semester 2	Winter 2024/Summer 2024								
HRAC121	Electrical Fundamentals	MATH101	2	2			4	14	56
HRAC122	Mechanical Drawing & Prints		2	3			5	14	70
HRAC123	Heating Fundamentals	HRAC111	3	3			6	14	84
COMM170/171	College Communication 2	COMM160/161	0	3			3	14	42
GNED	General Education Elective		0	3			3	14	42
GNED500	Global Citizenship: From Social Analysis to Social Action		0	3		ODL, BLD, HYB	3	14	42
								Total	336
Break (fall intake only)	Summer 2024								
Semester 3	Fall 2024								
HRAC211	Psychrometrics - Control		3	2			5	14	70
HRAC212	System Design & Installation	HRAC122	3	3			6	14	84
HRAC213	Electrical & Control Systems	HRAC121	3	2			5	14	70
MATH216	Mathematics for HRAC	MATH101	0	4		HYB	4	14	56
AMEG212	Applied Ethics in Technology and the Environment		0	2		ODL	2	14	28
								Total	308
Semester 4	Winter 2025								
HRAC221	Capstone Project	HRAC211, HRAC212, HRAC213	3	1			4	14	56
HRAC222	Heating Hydronic Fundamentals	HRAC123	2	2		HYB	4	14	56
HRAC223	Air Conditioning & Distribution Systems	HRAC212, HRAC122	2	4			6	14	84
HRAC224	Advanced Electrical and Control Systems	HRAC213, MATH216	3	3			6	14	84
GNED	General Education Elective		0	3		ODL, BLD, HYB	3	14	42
								Total	322
Total Program Hours:									1316

C = Co-Requisite; P = Pre-Requisite

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School:	School of Engineering Technology and Applied Science - SDRE	Program Number:	3825						
Program Title:	Heating, Refrigeration and Air Conditioning Technician	Credential:	<input type="checkbox"/> Certificate <input type="checkbox"/> Graduate Certificate <input type="checkbox"/> Degree <input checked="" type="checkbox"/> Diploma <input type="checkbox"/> Advanced Diploma						
Program Delivery Mode:	<input type="checkbox"/> Co-Op <input type="checkbox"/> Online <input type="checkbox"/> Fast Track <input type="checkbox"/> Hybrid <input checked="" type="checkbox"/> Non Co-op	Duration :	<input type="checkbox"/> 2 Semesters <input type="checkbox"/> 3 Semesters <input checked="" type="checkbox"/> 4 Semesters <input type="checkbox"/> 6 Semesters <input type="checkbox"/> 8 Semesters						
Campus:	Progress Campus								
Intake:	Fall 2023/Winter 2024								
Course Code	Course Title	Co/Pre Requisite (Course Code)	Lab Hours	Lecture Hours	Field Placement Hours	Course Delivery <input checked="" type="checkbox"/> ODL=Online BLD=Blended HYB = Hybrid	Total Course Hrs (Lab + Lecture + Field)	Weeks (14)	Total Hours
Notes: <input checked="" type="checkbox"/> Courses may be offered in one of the following modalities (Online, Hybrid or Blended) Overall GPA 2.0 required for graduation Courses highlighted in Red (HRAC111, HRAC124, HRAC121, HRAC123) are required to qualify for Gas 3 Test. You must achieve above 75% in all lab component AND 80% attendance in lecture component to qualify for G3 practical exams. Gas Technician 3 and 2 Testing takes place outside of regularly scheduled classes. (ie Engagement Week, Weekend, between semesters)									

Signature:


Clarence Cheung

 School Dean/Chair

March 30, 2023

 Revised Date