

32-601-1 HEATING, VENTILATION, AND AIR CONDITIONING/REFRIGERATION (HVAC/R) 31-601-2 HVAC INSTALLATION TECHNICIAN 30-601-1 REFRIGERATION ESSENTIALS 2022-23 PROGRAM CURRICULUM CHECKLIST NORTHWOOD TECHNICAL COLLEGE

FALL 2022 START SUPERIOR



Name/ID Date

CATALOG NUMBER	COURSE TITLE	HOURS PER WEEK	CREDITS	REFRIGERATION ESSENTIALS TECHNICAL DIPLOMA	HVAC INSTALLATION TECHNICIAN TECHNICAL DIPLOMA (Financial Aid Eligible)	HEATING, VENTILATION, AND AIR CONDITIONING/REFRIGERATION (HVAC/R) TECHNICAL DIPLOMA (Financial Aid Eligible)
	FIRST TERM (Fall 2022)					
32601300	Air Conditioning Fundamentals Prerequisite: Admission to HVAC/R Plan, Refrigeration Essentials Plan, or HVAC Installation Technician Plan (This course will prepare you to take the NC3 Residential Air Flow AND NC3 Building Performance Indoor Air Quality)	4 hours per week	2 credits	Refrigeration Essentials	HVAC Installation Technician	Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32601301	Basic Mechanical Fundamentals Prerequisite: Admission to HVAC/R Plan,Refrigeration Essentials Plan, or HVAC Installation Technician Plan (This course will prepare you to take the NC3 Building Performance Leak Detection Certification)	6 hours per week	3 credits	Refrigeration Essentials	HVAC Installation Technician	Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32601317	Refrigeration Fundamentals Prerequisite: Admission to HVAC/R Plan, Refrigeration Essentials Plan, or HVAC Installation Technician Plan (This course will prepare you to take the Section 608 EPA Technician Certification AND NC3 Refrigeration Diagnostics Certification)	7 hours per week	3 credits	Refrigeration Essentials	HVAC Installation Technician	Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32601303	Principles of AC/DC Corequisite: 32804325 Applied Technical Math 1 (This course will prepare you to take the NC3 Test meter 575 Certification)	6 hours per week	3 credits	Refrigeration Essentials	HVAC Installation Technician	Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32804325	Applied Technical Math 1	6 hours per week	3 credits	Refrigeration Essentials	HVAC Installation Technician	Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
	FIRST TERM TOTAL	29 hours per week		14 Credits Refrigeration Essentials	14 Credits HVAC Installation Technician	14 Credits Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)



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	SECOND TERM (Spring 2023)					
32601304	Heating Systems Prerequisite: Admission to HVAC/R Plan or HVAC Installation Technician Plan (This course will prepare you to take the Flue Gas Analysis Building Performance Instruments (BPI)	4 hours per week	2 credits		HVAC Installation Technician	Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32601305	Electrical Controls & Systems (This course will prepare you to take the NC3 Residential Variable Speed Motors)	6 hours per week	3 credits		HVAC Installation Technician	Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32601306	HVAC/R Print Reading Prerequisite: Admission to HVAC/R Plan or HVAC Installation Technician Plan	4 hours per week	2 credits		HVAC Installation Technician	Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32601310	Sheet Metal Fabrication Prerequisite: 32601301 Basic Mechanical Fundamentals	4 hours per week	2 credits		HVAC Installation Technician	Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32804334	Applied Technical Math 2 Prerequisite: 32804325 Applied Technical Math 1	4 hours per week	2 credits		HVAC Installation Technician	Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32801361	Applied Communications	4 hours per week	2 credits		HVAC Installation Technician	Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
	SECOND TERM TOTAL	28 hours per week			13 Credits HVAC Installation Technician	13 Credits Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)



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	THIRD TERM (Fall 2023)					
32150302	Applied IT Basics	2 hours per week	1 credit			Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32601316	Building Automation Systems Prerequisite: 32601305 Electrical Controls and Systems (This course will prepare you to take the NC3 Building Automation Systems (Beginning Fall 2020)	4 hours per week	2 credits			Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32601307	Heating System Applications Prerequisites: 32601301 Basic Mechanical Fundamentals and 32601304 Heating Systems (This course will prepare you to take the NC3 Building Performance Instruments (BPI) Installation and Diagnostics AND NC3 Air-to-Air Heat Pumps)	6 hours per week	3 credits			Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32601309	Control Circuit Applications Prerequisite: 32601305 Electrical Controls and Systems	6 hours per week	3 credits			Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32809380	Applied Interpersonal Skills	4 hours per week	2 credits			Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32801362	Advanced Communication Skills Prerequisite: 32801361 Applied Communications	4 hours per week	2 credits			Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
	THIRD TERM TOTAL	26 hours per week				13 Credits Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)



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	FOURTH TERM (Spring 2024)					
32601308	Electronic Energy Management Prerequisite: 32601309 Control Circuit Applications	6 hours per week	3 credits			Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32601311	Hydronic Heating Prerequisites: 32601301 Basic Mechanical Fundamentals and 32601304 Heating Systems (This course will prepare you to take the Building Performance Instruments (BPI) Fluid Integrity)	6 hours per week	3 credits			Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32601312	Refrigeration Applications Prerequisites: 32601300 Air Conditioning Fundamentals, 32601301 Basic Mechanical Fundamentals and, 32601317 Refrigeration Fundamentals (This course will prepare you to take the Building Performance Instruments (BPI) RPM and Vibration Testing)	6 hours per week	3 credits			Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
32601314	Heat Load Estimation Prerequisite: Admission to HVAC/R Plan	2 hours per week	1 credit			Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
	1st 8 weeks					
32601315	Geothermal Systems Prerequisites: 32601301 Basic Mechanical Fundamentals, 32601317 Refrigeration Fundamentals,32601305 Electrical Controls and Systems	8 hours per week	2 credits			Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
	FOURTH TERM CONTINUED ON NEXT PAGE					



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	FOURTH TERM CONTINUED					
	2nd 8 weeks					
32601313	HVAC/R Electronic Troubleshooting/ Repair (WBL) Prerequisite: 32601309 Control Circuit Applications (This course will prepare you to take the NC3 Building Automations Systems)	8 hours per week	2 credits			Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
	FOURTH TERM TOTAL	28 hours per week				14 Credits Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)
	PROGRAM REQUIREMENTS			14 Credits Refrigeration Essentials	27 Credits HVAC Installation Technician	54 Credits Heating, Ventilation, and Air Conditioning/Refrigeration (HVAC/R)

Please be advised that low enrollment class sections may be cancelled. You will be contacted by Student Services with information on other class sections available in alternate formats.

GRADUATION REQUIREMENTS: Although your academic advisor can provide guidance, you are ultimately responsible for selecting courses that meet a program's graduation requirements. If you do not take courses in the recommended sequence above, it may delay your completion of graduation requirements. A program plan GPA of 2.0 in a 4.0 grade system is required to graduate.

EARN CREDIT FOR WHAT YOU ALREADY KNOW: Visit https://www.northwoodtech.edu/admissions/preparing-for-college/credit-for-prior-learning for more information

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or 715.788.7090. You will receive a response within 5 business days.