BTC Addendum 2024-25 Catalog – Adding COLL 101 as a general education requirement

HVAC/R TECHNICIAN AAS (109 CREDITS)

For students beginning Winter, Spring or Summer 2025:

- **COLL 101 College Success (5 Credits)**

must replace one of the general education required courses in either the ***Communications Distribution*** or the ***Humanities Distribution***.
COLL 101 must be taken in the student's first or second quarter of the program.

NOTE: This requirement does not apply to students who prior to starting the program have already completed the Communications or Human Relations course (@ Bates or Transfer) or have successfully completed at least one quarter of college at Bates or another institution.

CIP Code

47.0201

Plan Code: HRMHTAPT

- 6 quarter AAS
- Maximum class size:
- Student to teacher ratio:
- Enrollment point: Fall, Winter, Spring, Summer
- This is a primarily face-to-face program with some Online, Hybrid, and Web-enhanced courses.

General Education Requirements

5 credits from the Communications Distribution

5 credits from the Quantitative Distribution

5 credits from the Sciences and Humanities Distribution

Note: See a Career Advisor prior to choosing courses that meet general education requirements.

Required Courses

Quarter 1

	Introduction to Tools and Fasteners	
HVAC 151	OSHA 30-hour Construction Industry Outreach Training Program	4
HVAC 152	Basic First Aid and CPR	
HVAC 153	Basic Electricity, Magnetism	2
	Types of Electrical Motors and Applications	4
	Motor Controls & Troubleshooting	3
GENED	*Communications or Quantitative or Sciences-Humanities*	

Quarter 2

	Theory of Heat	2
HVAC 157	Introduction to Automatic Controls, Troubleshooting	3
HVAC 158	Indoor Air Quality, Advanced Controls	3
	Electric & Oil Heat	4
	Gas & Hydronic Heat	3
GENED	*Communications or Quantitative or Sciences-Humanities*	

Quarter 3

HVAC 161	Refrigeration, Oil Chemistry, Management, Recovery	2
HVAC 162	EPA 608 Universal, Leak Detection, System Evacuation	3
HVAC 163	Tubing, Piping and Brazing	2
HVAC 164	System Charging	4
	Refrigeration System Components	5
GENED	*Communications or Quantitative or Sciences-Humanities*	

Quarter 4

HVAC 251	Load Calculations & Duct Design	4
HVAC 260	Operating Conditions, Introduction to Drafting	4

And choose:

WBAS101	*Welding Basics*	*8*

OR these courses:

HVAC 206	*Basic Metal Working*	*2*
HVAC 207	*Basic Layout & Patterns*	*2*
HVAC 208	*Fabrication Practices*	*2*
HVAC 209	*Load Calucation, Duct Design, Air Balance*	*2*

Quarter 5

HVAC 261	Special Refrigeration Systems	4
HVAC 262	Heat Pump Systems, Air and Geothermal	4
HVAC 263	Domestic Appliances	4
HVAC 264	Commercial Refrigeration Systems & Troubleshooting	4

Quarter 6

HVAC 265	Comfort, Psychometrics & Energy Auditing	4
HVAC 266	Troubleshooting	5
HVAC 267	Chilled Water Systems	3
HVAC 268	Operating, Maintenance, Troubleshooting Chilled Water Systems	4

TOTAL CREDIT HOURS: 109