



[CTEHVCCERT; CIP Code 47.0201]

Academic Certificate

The HVAC (Heating, Ventilation, and Air Conditioning) Certificate is designed to provide students with the essential skills and knowledge needed to work in the dynamic field of climate control systems. This Certificate covers a wide range of topics, including refrigeration, heating systems, ventilation, air conditioning, system diagnostics, installation, and maintenance. Students will gain hands-on experience working with industry-standard tools and equipment, learning how to install, troubleshoot, and repair HVAC systems in both residential and commercial settings. The program also emphasizes the importance of energy efficiency, indoor air quality, and compliance with environmental and safety regulations.

Program Learning Outcomes

Students who have completed the program should be able to:

- Understand the tools, equipment, diagnostic and troubleshooting techniques needed in the HVAC industry
- Apply repair and installation skills in both commercial and residential HVAC systems
- Understand the various climate control systems in both residential and commercial HVAC systems.

Program Contact

Michael Lemon
Program Instructor
mlemon@rcsj.edu

✦ Are you ready to get started at RCSJ? Visit [RCSJ.edu/Enroll](https://www.rcsj.edu/Enroll) and complete the interest form. ✦

Heating, Ventilation and Air Conditioning, CERT

FIRST YEAR — Fall Semester

☐ ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
☐ ETEC 118 Tools and Measurements	1
☐ CISM 101 Introduction to Computers	4
☐ COMG 100 Introduction to Construction Technology	4
☐ ETEC 105 Blueprint Reading/Sketching	2
	14-15

Spring Semester

☐ HVAC 101 HVAC Foundations	3
☐ MATH 100 Foundations of Mathematics I	3
☐ HVAC 104 HVAC Essentials	3
	9

SECOND YEAR — Fall Semester

☐ BUSN 105 Personal and Professional Branding	1
☐ HVAC 106 Advanced HVAC Foundations I	3
☐ HVAC 107 Advanced HVAC Foundations II	3
	7

TOTAL MINIMUM CREDITS: 30

Program Notes

HVAC 101 is a prerequisite of **HVAC 104** each course is offered in the 7A & 7B week sessions. To earn the NCCER HVAC Level 1 certificate and wallet card, students must successfully complete **HVAC 101** and then **HVAC 104** course.

HVAC 106 is a prerequisite of **HVAC 107** each course is offered in the 7A & 7B week sessions. To earn the NCCER HVAC Level 2 certificate and wallet card, students must successfully complete **HVAC 106** and then **HVAC 107** course.

This nationally industry transferable certification is designed to equip students with the knowledge needed for safe and effective work in heating, ventilation and air conditioning trade.