The HVAC/R program is accredited by the Committee on HVAC Excellence and includes a study of air conditioning, heating, and refrigeration for residential, commercial, and industrial equipment. Along with receiving instruction, students are trained to be HVAC technicians in a hands-on lab environment. The primary mission of the HVAC/R program is to provide the necessary training to prepare students for a successful career in the field of HVAC/R with a goal of business owner or service manager. The Master HVAC/R Technician program will provide the majority of intensive training needed for the skills needed for any type or branding of HVAC/R equipment. Students are offered the opportunity to earn the EPA 608 license, 410A certification, and NATE, ESCO, and NCCER certifications. A Certificate of Technical Studies in Certified HVAC Technician is also offered.

**PROGRAM ADMISSION:** Courses with a prefix of HACR require students to be eligible for ENGL 062, MATH 095, and READ 072. Completion of these courses is **not** required.

**CAMPUS:** DCC Jefferson and DCC Sidney Collier

**CAREERS:** The HVAC/R industry has grown into one of the higher-paying career paths. The opportunities are endless in this career. Every building today has some kind of climate control system and over 80% of residential homes being built have central air conditioning systems and most commercial buildings (restaurants, hotels, hospitals, etc.) use modern Energy Management Systems (EMS) to efficiently operate their facilities. Most Master HVAC/R technicians are business owners or service managers. Certified technicians are needed to troubleshoot and maintain HVAC systems at residences and commercial buildings. The average salary for HVAC installers and mechanics in Louisiana is $20.47 per hour/$42,576 per year (LA Workforce Commission, Occupational Wage Data, 2012).

**CURRICULA:**

- Certified HVAC Technician 27 credit hours; 2 semesters
- Master HVAC/R Technician 57 credit hours, 4 semesters

**Semester 1**

*Tech 101 NCCER Technical Core\(^1\)
3-3-3/90

*ADOT 105 Survey of Computer Applications\(^1\)
3-0-3/45

*HESC 102 First Aid\(^1\)
3-0-3/45

HACR 121 Electrical Fundamentals\(^1\)
3-1-3/60

HACR 115 Building Code and Licensing\(^1\)
3-0-3/45

**Semester 2**

HACR 116 Tubing, Fabrication, and Fitting\(^1\)
2-2-3/60  *Pre-Requisite: TECH 101*

HACR 117 Principles of Refrigeration\(^1\)
3-2-4/75  *Pre-Requisites: TECH 101 & HACR 116 (HACR 116 may be taken concurrently)*

HACR 153 Residential System Design\(^1\)
4-1-4/75

HACR 222 Electrical Components and Motors\(^1\)
3-2-4/75  *Pre-Requisite: HACR 121*

**Semester 3**

HACR 281 Intro to Commercial A/C  2-2-3/60
*Pre-Requisites: HACR 116, 117, 121, & 222*

HACR 291 Intro to Commercial Refrigeration
2-2-3/60  *Pre-Requisites: HACR 116, 117, 121 & 222*

HACR 251 Theory of Residential Air Conditioning
3-0-3/45  *Pre-Requisites: HACR 121, 116, 117, & 222*

HACR 252 Residential A/C: Theory & Practice
2-3-3/75  *Pre-Requisites: HACR 121, 116, 117, 222, & 252 (HACR 252 may be taken concurrently)*

**Semester 4**

HACR 157 Building Science for HVAC
2-0-2/30

HACR 158 Building Engineering Hydronics
4-1-4/75

HACR 254 Residential Gas Heating
2-2-3/60  *Pre-Requisites: HACR 116, 121, & 222*

HACR 256 Residential Heat Pumps
2-2-3/60  *Pre-Requisites: HACR 116, 121, & 222*

*ACCT 111 Fundamentals of Accounting  OR *
*BUSG 115 Starting a New Business 3-0-3/45

\(^1\)Required for the Certified HVAC Technician, CTS

* Required Related Course

*Updated FL14*