

AC COURSE STUDENT LEARNING OUTCOMES

AC 102 - Refrigeration Theory

Students will be able to apply the laws of physics, including thermodynamics, to mechanical refrigeration systems.

Students will be able to demonstrate the operation of the mechanical refrigeration cycle, its components and their function.

Students will be able to develop common knowledge of the EPA guidelines section 608.

AC 106 - Residential Gas Heating

CSLOs are under review.

AC 107 - Electrical and Controls for HVAC

CSLOs are under review.

AC 108 - Motors for HVACR

CSLOs are under review.

AC 111 - Heat Pumps

CSLOs are under review.

AC 113 - Schematic Reading for HVAC/R

CSLOs are under review.

AC 150 - Basic Refrigeration Servicing

CSLOs are under review.

AC 198 - Special Topics in HVAC

Students will be able to individualized, specific learning outcomes will be written by faculty member and student.

Students will be able to synthesize existing knowledge, abilities and skills with new practical skills on specific types of HVAC/R equipment.

AC 200 - Commercial Refrigeration I

CSLOs are under review.

AC 201 - HVAC Automatic Controls

Students will be able to identify commercial HVAC equipment types.

Students will be able to explain the operation of multiple commercial HVAC system.

Students will be able to describe the function of BAS (Building Automation System).

AC 205 - Commercial HVAC 2

Students will be able to students will demonstrate the ability to set up a BAS (building automation system) network.

Students will be able to setup a basic ALC program.

Students will be able learn troubleshooting techniques on a BAS (building automation system).

AC 206 - Commercial HVAC Systems 3

Students will be able to demonstrate the ability to navigate ALC system.

Students will be able to demonstrate the ability to create equipment specific logic and graphics.

Students will be able to perform troubleshooting techniques on live equipment in the TMCC commercial lab.

AC 210 - Boiler Operation and Maintenance

Students will be able to demonstrate an operational understanding of the principles, components and controls of different types of boilers.

Students will be able to demonstrate an operational understanding of the safe operation of boiler systems.

AC 295 - Internship HVAC Career

CSLOs are under review.