

FACILITY AND SERVICE TECHNOLOGY AAS

Purpose: The Facility and Service Technology major is designed to prepare students for careers requiring skills in the operation, maintenance, troubleshooting, and repair of electrical and mechanical equipment found in commercial electrical controls and programmable controls. Courses in residential and commercial refrigeration, air conditioning, pneumatics, heating and cooling control, and computerized energy management systems comprise the second year instruction. Graduates usually start at entry level positions in various maintenance operation areas in medical clinics, hospitals, waste to energy plants, power plants, hotels, educational manufacturing, processing and industrial facilities. Graduates have been employed as service technicians in the heating/ventilation/air conditioning (H.V.A.C.) field, building trades, and some are self-employed in the H.V.A.C. field. After completion of the second year, students who qualify may take the State examination for Second class "A" steam engineer's license and/or refrigeration certifications.

Award

FAST AAS Degree.....68 credits total
 FAST curriculum 53 credits
 MnTC curriculum/General Education..... 15 credits

*** The course sequence for this program begins in fall only and is intended for full-time enrollment.**

RECOMMENDED FULL-TIME COURSE SEQUENCE

Not all courses are scheduled every semester. See course schedule: <https://eservices.minnstate.edu/registration/search/basic.html?campusid=306>.

Semester 1		Semester 2	
FST1500 Boiler Theory	4 cr	FST 1611 Basic Electricity	2 cr
FST 1530 Plumbing Theory	1 cr	FST 1621 Electrical Theory I	3 cr
FST 1540 Power Plant Operation	4 cr	FST 1631 Electrical Lab I	3 cr
FST 1550 Plumbing Lab	2 cr	FST 1641 Electrical Theory II	3 cr
FST 1560 Basic Pneumatics/Hydraulics	2 cr	FST 1651 Electrical Lab II	3 cr
Goal 3 or 4	3 cr	FST 1661 Electrical Safety National Electric Code	1 cr
		Any MNTC	3 cr
Total Credits	16	Total Credits	18
Semester 3		Semester 4	
FST 1520 Welding Equipment Repair	1 cr	FST 2602 HVAC/Refrigeration Systems Theory	3 cr
FST 2500 Refrigeration Theory	2 cr	FST 2612 HVAC/Refrigeration Systems Lab	2 cr
FST 2506 Refrigeration Lab	3 cr	FST 2622 HVAC/Control Systems Lab	2 cr
FST 2512 Commercial Refrigeration	3 cr	FST 2632 HVAC Control Systems Theory	3 cr
FST 2518 Commercial Refrigeration Lab	2 cr	FST 2655 Facility and Service Technology	2 cr
FST 2555 Facility and Service Technology	2 cr	Internship IV	
Internship III		Goal 1 Written and Oral Communication	3 cr
Goal 6	3 cr	Any MNTC	3 cr
Total Credits	14	Total Credits	17

Course descriptions can be found at: <https://www.rctc.edu/academics/courses/course-descriptions>.