

FACILITY AND SERVICE TECHNOLOGY DIPLOMA

Purpose: Facility and Service Technician (FAST) major is designed to prepare students for careers requiring skills in the operation, maintenance, troubleshooting, and repair of electrical and mechanical equipment found in residential and commercial buildings.

Award

FAST Transfer Pathway Diploma..... 69 credits total
 FAST curriculum 64 credits
 MnTC curriculum/General Education..... 5-7 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 FST1500 Power Plant Theory 4 cr FST 1510 Welding Theory 1 cr FST 1520 Welding Equipment Repair 1 cr FST 1530 Plumbing Plant Theory 1 cr FST 1540 Power Plant Operation 4 cr FST 1550 Plumbing Lab 2 cr FST 1560 Basic Pneumatics/Hydraulics 2 cr FST 1570 Basic Boiler Theory 1 cr MATH 1015 Applied Technical Math 3 cr Or MATH 1016 Technical Math Essentials 1 cr <div style="text-align: right;">Total Credits 17-19</div>		Semester 2 FST 1611 Basic Electricity 2 cr FST 1621 Electrical Theory I 3 cr FST 1631 Electrical Lab I 3 cr FST 1641 Electrical Theory II 3 cr FST 1651 Electrical Lab II 3 cr FST 1661 Electrical Safety National Electric Code 2 cr COMM 1000 Introduction to Workplace Comm 3 cr Or COMM 1130 Interpersonal Communication 3 cr <div style="text-align: right;">Total Credits 19</div>	
Semester 3 FST 2500 Refrigeration Theory 3cr FST 2506 Refrigeration Lab 3 cr FST 2512 Commercial Refrigeration 3 cr FST 2518 Commercial Refrigeration Lab 2 cr FST 2555 Facility Service Technology Internship III 5 cr AOP 2870 Employment Strategies 1 cr <div style="text-align: right;">Total Credits 17</div>		Semester 4 FST 2602 HVAC/Refrigeration Systems Theory 4 cr FST 2612 HVAC/Refrigeration Systems Lab 2 cr FST 2622 HVAC/Control Systems Lab 2 cr FST 2632 HVAC Control Systems Theory 3 cr FST 2655 Facility Service Technology Internship IV 5 cr <div style="text-align: right;">Total Credits 16</div>	

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