

Certificate Programs

Students seeking a certificate from Normandale Community College must successfully complete the certificate requirements determined by the specific program, which may include MnTC required credits.

Vacuum Maintenance Technician Certificate

The Vacuum Maintenance Technician Certificate prepares individuals with little or no previous college coursework for a career as a technician in vacuum technology and surface science. The eight courses included in the certificate provide the student with the necessary academic experience in college algebra, chemistry, robotics, semiconductor processing, and vacuum technology curricula to be successful as a vacuum maintenance technician.

Required courses: (28 cr)

CHEM 1061	Principles of Chemistry 1 (5)
MATH 1100	College Algebra - Probability (4)
NANO 1184	Fluid Mechanics (2)
NANO 1188	Industrial Robotics (3)
NANO 1292	Intro to Vacuum Technology (3)
NANO 1294	Intro-Semiconductor Proc (3)
NANO 2293	Vacuum Analysis/Troubleshoot (4)
NANO 2297	Thin Film Deposition (4)

