

Associate of Applied Science (AAS) Degrees

Students seeking an Associate of Applied Science (AAS) degree from Normandale Community College must successfully complete the degree requirements determined by the specific program, which include 20 credits from at least three MnTC Goal areas.

Other Graduation Requirements:

- Complete the specific degree requirements.
- Earn a cumulative grade point average (GPA) of 2.00 or higher for college-level coursework completed at Normandale.
- Earn a minimum of 20 college level credits at Normandale.

Nanotechnology (AAS) with Emphasis in Vacuum Technology and Surface Science or Semiconductor Process Technician

This program is designed to provide the knowledge and skills to perform as a technician in vacuum technology or semiconductor manufacturing. This occupation provides a variety of employment opportunities in vacuum technology, optical manufacturing, manufacturing operations (such as electron beam machining or electron beam welding) and the manufacture of semiconductors. Other positions may include responsibilities associated with operations, technical sales and quality control.

General Education Requirements: (25 cr)

CHEM 1061	Principles of Chemistry 1 (5)
COMM 1111	Interpersonal Communication (3)
-OR COMM 1101	Fundamentals-Public Speaking (3)
-OR COMM 1121	Sm Group Communication (3)
ENG 1101	Freshman Composition (4)
ENG 1102	Technical Writing (3)
MATH 1100	College Algebra - Probability (4)

Complete at least 3 cr from MnTC Goal 5.

Complete at least 3 cr from MnTC Goal 6.

Specialized Degree Requirements:

Choose one emphasis. (36-37 cr)

Vacuum Technology and Surface Science Emphasis

COMT 1107	Intro to Computer Technology (4)
-OR CSCI 1101	Intro-Computing/Prob Solving (4)
COMT 2187	Digital Logic/Microprocessors (4)
NANO 1153	AC/DC Circuits (4)
NANO 1180	Manufacturing Processes (2)
NANO 1184	Fluid Mechanics (2)
NANO 1188	Industrial Robotics (3)
NANO 1290	Introduction to Quality (3)
NANO 1292	Intro to Vacuum Technology (3)
NANO 1294	Intro-Semiconductor Proc (3)
NANO 2293	Vacuum Analysis/ Trouble Shoot (4)
NANO 2297	Thin Film Deposition (4)

Semiconductor Process Technician Emphasis

COMT 1107	Intro to Computer Technology (4)
-OR CSCI 1101	Intro-Computing/Prob Solving (4)
COMT 2187	Digital Logic/Microprocessors (4)
NANO 1150	Intro to Nanotechnology (2)
NANO 1153	AC/DC Circuits (4)
NANO 1290	Introduction to Quality (3)
NANO 1292	Intro to Vacuum Technology (3)
NANO 1294	Intro-Semiconductor Process (3)
NANO 2194	Adv Semiconductor Processing (3)
NANO 2297	Thin Film Deposition (4)
NANO 2298	Photolithography (4)

Complete one from the following: (2-3 cr)

NANO 1180	Manufacturing Processes (2)
NANO 1184	Fluid Mechanics (2)
NANO 1188	Industrial Robotics (3)

