Engineering
Associate in Science

DIVISION OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

This program is designed to enhance students’ interest in the math and science fields by pursuing a career in engineering. The program’s core curriculum emphasizes mathematics, physics, and chemistry -- the foundation for all engineering projects. The core curriculum is complemented with courses in engineering design, engineering mechanics, and engineering physics.

Upon successful completion, the Associate in Science Degree in Engineering is awarded.

CAREER PATHWAY

Students are advised to select career pathway electives after careful consideration of their career choices in their second year. Some electives may or may not transfer to an engineering program at some four-year institutions.

PROGRAM FOOTNOTE

Career Pathway Electives:
MN 118 Ethics for Engineers and Technologists
EC 201 Principles of Macroeconomics (fall),
EC 202 Principles of Microeconomics (spring) (recommended for transferring to UMass Lowell),
BI 110 Principles of Biology I (fall) (recommended for transfer to Northeastern University Mechanical Engineering program)

Career Pathway Electives:
CS 120 Programming I (fall), CS 200 Programming II (spring), or Computer Science (CS) courses higher than CS 110 (for transfer to UMass Lowell for Electrical Engineering/Computer Science double major program)

Humanities Electives:
Art, Communication, English (EN 103 or higher), ESL (ES 100 or higher; up to 6 credits), Film, Foreign Language, Humanities, Literature, Music, Oral Communication, Philosophy, Photography, Sign Language, Theater Arts

Social Science Electives:
Anthropology, Economics, Geography, Government, History, Law and Society (LA 230), Psychology, Sociology

Quantitative skills are a MassBay graduation competency for associate degree programs. Prior to graduation, students must demonstrate this competency by completing a 100-level math course (not MAC); or placing into a 200-level mathematics course.

Students are advised to check transfer requirements at four-year institutions. Some Institutions require 2 (two) Chemistry Courses for specific engineering programs. CH 110 and CH 120 sequence is recommended in such cases.

This program qualifies as an Alternative Transfer Agreement (MassTransfer) with select public institutions in Massachusetts. For more information, visit www.mass.edu/masstransfer.