

North Iowa Area Community College

Associate of Arts (A.A.) or Associate of Science (A.S.)

Transfer guide to the [University of Northern Iowa](#)
Department of Applied Engineering

This document serves as a guide for students planning to complete an Associate of Arts (A.A.) or Associate of Science (A.S.) degree and transfer into one of the Department of Applied Engineering programs at UNI. Listed below are recommendations for electives that can be taken within an A.A. or A.S. curriculum, broken down by program.

Automation Engineering Technology

NIACC course	Course Title		UNI course	Course Title
MAT 156	Statistics	transfers as...	STAT 1772	Intro to Statistical Methods
MAT 210	Calculus I	transfers as...	MATH 1420	Calculus I
PHY 162	College Physics I	transfers as...	PHYSICS 1511	General Physics I

Electrical Engineering Technology

NIACC course	Course Title		UNI course	Course Title
MAT 129	Precalculus	transfers as...	MATH 1140	Precalculus
MAT 156	Statistics	transfers as...	STAT 1772	Intro to Statistical Methods
MAT 210	Calculus I	transfers as...	MATH 1420	Calculus I
PHY 162	College Physics I	transfers as...	PHYSICS 1511	General Physics I

Industrial Management

NIACC course	Course Title		UNI course	Course Title
CHM 166	General Chemistry I	transfers as...	CHEM 1110	General Chemistry I
MAT 156	Statistics	transfers as...	STAT 1772	Intro to Statistical Methods
PHY 162	College Physics I	transfers as...	PHYSICS 1511	General Physics I

Manufacturing Engineering Technology

NIACC course	Course Title		UNI course	Course Title
CHM 166	General Chemistry I	transfers as...	CHEM 1110	General Chemistry I
MAT 210	Calculus I	transfers as...	MATH 1420	Calculus I
PHY 162	College Physics I	transfers as...	PHYSICS 1511	General Physics I

Materials Science & Engineering

NIACC course	Course Title		UNI course	Course Title
CHM 166	General Chemistry I	transfers as...	CHEM 1110	General Chemistry I
CHM 176	General Chemistry II	transfers as...	CHEM 1120	General Chemistry II
MAT 210	Calculus I	transfers as...	MATH 1420	Calculus I
MAT 216	Calculus II	transfers as...	MATH 1420	Calculus II
PHY 212	Classical Physics I	transfers as...	PHYSICS 1701	Physics I for Sci. & Eng.
PHY 222	Classical Physics II	transfers as...	PHYSICS 1702	Physics II for Sci. & Eng.

Materials Science & Engineering Technology

NIACC course	Course Title		UNI course	Course Title
CHM 166	General Chemistry I	transfers as...	CHEM 1110	General Chemistry I
CHM 176	General Chemistry II	transfers as...	CHEM 1120	General Chemistry II
MAT 210	Calculus I	transfers as...	MATH 1420	Calculus I
PHY 162	College Physics I	transfers as...	PHYSICS 1511	General Physics I
PHY 172	College Physics II	transfers as...	PHYSICS 1512	General Physics II

Mechanical Engineering Technology

NIACC course	Course Title		UNI course	Course Title
CHM 166	General Chemistry I	transfers as...	CHEM 1110	General Chemistry I
MAT 210	Calculus I	transfers as...	MATH 1420	Calculus I
PHY 162	College Physics I	transfers as...	PHYSICS 1511	General Physics I

Technology & Engineering Education

NIACC course	Course Title		UNI course	Course Title
CHM 166	General Chemistry I	transfers as...	CHEM 1020	Chemical Technology
MAT 128	Precalculus	transfers as...	MATH 1140	Precalculus
PHY 162	College Physics I	transfers as...	PHYSICS 1511	General Physics I