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**Des Moines 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 & Technical Management**

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**

DMACC course	Course Title		UNI course	Course Title
MAT 156	Statistics	transfers as...	STAT 1772	Intro to Statistical Methods
MAT 211	Calculus I	transfers as...	MATH 1420	Calculus I
PHY 160	General Physics I	transfers as...	PHYSICS 1511	General Physics I

**Electrical Engineering Technology**

DMACC 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 211	Calculus I	transfers as...	MATH 1420	Calculus I
PHY 160	General Physics I	transfers as...	PHYSICS 1511	General Physics I

**Industrial Management**

DMACC course	Course Title		UNI course	Course Title
CHM 165	General Chemistry I	transfers as...	CHEM 1110	General Chemistry I
MAT 156	Statistics	transfers as...	STAT 1772	Intro to Statistical Methods
PHY 160	General Physics I	transfers as...	PHYSICS 1511	General Physics I

**Manufacturing Engineering Technology**

DMACC course	Course Title		UNI course	Course Title
CHM 165	General Chemistry I	transfers as...	CHEM 1110	General Chemistry I
MAT 211	Calculus I	transfers as...	MATH 1420	Calculus I
PHY 160	General Physics I	transfers as...	PHYSICS 1511	General Physics I

**Materials Science & Engineering**

DMACC course	Course Title		UNI course	Course Title
CHM 165	General Chemistry I	transfers as...	CHEM 1110	General Chemistry I
CHM 175	General Chemistry II	transfers as...	CHEM 1120	General Chemistry II
MAT 211	Calculus I	transfers as...	MATH 1420	Calculus I
MAT 217	Calculus II	transfers as...	MATH 1420	Calculus II
PHY 213	Classical Physics I	transfers as...	PHYSICS 1701	Physics I for Sci. & Eng.
PHY 223	Classical Physics II	transfers as...	PHYSICS 1702	Physics II for Sci. & Eng.

### **Materials Science & Engineering Technology**

DMACC course	Course Title		UNI course	Course Title
CHM 165	General Chemistry I	transfers as...	CHEM 1110	General Chemistry I
CHM 175	General Chemistry II	transfers as...	CHEM 1120	General Chemistry II
MAT 211	Calculus I	transfers as...	MATH 1420	Calculus I
PHY 160	General Physics I	transfers as...	PHYSICS 1511	General Physics I
PHY 161	General Physics II	transfers as...	PHYSICS 1512	General Physics II

### **Mechanical Engineering Technology**

DMACC course	Course Title		UNI course	Course Title
CHM 165	General Chemistry I	transfers as...	CHEM 1110	General Chemistry I
MAT 211	Calculus I	transfers as...	MATH 1420	Calculus I
PHY 160	General Physics I	transfers as...	PHYSICS 1511	General Physics I

### **Technology & Engineering Education**

DMACC course	Course Title		UNI course	Course Title
CHM 165	General Chemistry I	transfers as...	CHEM 1020	Chemical Technology
MAT 129	Precalculus	transfers as...	MATH 1140	Precalculus
PHY 160	General Physics I	transfers as...	PHYSICS 1511	General Physics I