

**Iowa Valley Community College**  
**Associate of Arts (A.A.) or Associate of Science (A.S.)**  
 Transfer guide to the [University of Northern Iowa](http://www.uni.edu)  
**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 & Technical Management 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**

IVCC 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 1150 or MATH 1420	Calculus for Technology or Calculus I
PHY 162	College Physics I	transfers as...	PHYSICS 1511	General Physics I

**Construction Management**

IVCC course	Course Title		UNI course	Course Title
ACC 121	Principles of Accounting I	transfers as...	ACCT 2120	Principles of Financial Accounting
CHM 165 or CHM 166	General Chemistry I	transfers as...	CHEM 1020	Chemical Technology
ECN 120 or ECN 130	Prin. of Macroeconomics or Prin. of Microeconomics	transfers as...	ECON 1031	Intro to Economics
MAT 156	Statistics	transfers as...	STAT 1772	Intro to Statistical Methods
MAT 210	Calculus I	transfers as...	MATH 1150 or MATH 1420	Calculus for Technology or Calculus I
PHY 162	College Physics I	transfers as...	PHYSICS 1511	General Physics I

**Electrical Engineering Technology**

IVCC course	Course Title		UNI course	Course Title
MAT 128 or 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

**Manufacturing Engineering Technology**

IVCC course	Course Title		UNI course	Course Title
CHM 165 or CHM 166	General Chemistry I	transfers as...	CHEM 1020	Chemical Technology
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

IVCC course	Course Title		UNI course	Course Title
CHM 165 or CHM 166	General Chemistry I	transfers as...	CHEM 1110	General Chemistry I
CHM 175 or 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 1421	Calculus II
MAT 219	Calculus III	transfers as...	MATH 2422	Calculus III
PHY 212	Classical Physics I	transfers as...	PHYSICS 1701	Physics I for Science & Engineering
PHY 222	Classical Physics II	transfers as...	PHYSICS 1702	Physics II for Science & Engineering

### Materials Science Engineering Technology

IVCC course	Course Title		UNI course	Course Title
CHM 165 or CHM 166	General Chemistry I	transfers as...	CHEM 1110	General Chemistry I
CHM 175 or 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

IVCC course	Course Title		UNI course	Course Title
CHM 165 or 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

IVCC course	Course Title		UNI course	Course Title
CHM 165 or CHM 166	General Chemistry I	transfers as...	CHEM 1020	Chemical Technology
ECE 170	Child Growth & Development	transfers as...	EDPSYCH 2030	Dynamics of Human Development
EDU 245	Exceptional Learner	transfers as...	SPED 3150	Meeting the Needs of Diverse Learners
EDU 282	Field Experience: Exploring Teaching	transfers as...	TEACHING 2017	Level 1 Field Experience
MAT 128 or MAT 129	Precalculus	transfers as...	MATH 1140	Precalculus
MAT 156	Statistics	transfers as...	STAT 1772	Intro to Statistical Methods
PHY 162	College Physics I	transfers as...	PHYSICS 1511	General Physics I

**Technology Management**

<b>IVCC course</b>	<b>Course Title</b>		<b>UNI course</b>	<b>Course Title</b>
CHM 165 or CHM 166	General Chemistry I	transfers as...	CHEM 1020	Chemical Technology
MAT 156	Statistics	transfers as...	STAT 1772	Intro to Statistical Methods
PHY 162	College Physics I	transfers as...	PHYSICS 1511	General Physics I