

# College Transfer Programs

This guide has been prepared for NIACC students transferring to the colleges and universities listed.

Curriculum is recommended for each of the major courses that can be taken at NIACC. Students should, however, check the requirements of their major with a NIACC counselor/advisor. Sample two-year plans are available on the Internet at [www.niacc.edu](http://www.niacc.edu).

**Students are also encouraged to correspond with their transfer college to obtain a verification of their planned courses while at NIACC.**

Articulation 2000 seeks to strengthen articulation and transfer by looking beyond the traditional and common practice. The colleges/universities participating in NIACC's Articulation 2000 Program are Buena Vista University, Central College, Drake University, Iowa State University, Simpson College, the University of Iowa, University of Northern Iowa, Upper Iowa University, and Wartburg College. Course equivalency sheets between NIACC and these institutions are available from a NIACC counselor/advisor and on the web. Joint admission is one of the outcomes of NIACC's Articulation 2000 Program.

## Transfer Division Chairs:

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## Accounting

### Grand View College

Completion of the A.A. Degree at NIACC will meet most general education requirements; the following courses are recommended as electives or general education within one's A.A. studies:

Microeconomics	3 s.h.
Macroeconomics	3 s.h.
College Algebra and Trigonometry I	4 s.h.
Business Law I/II	6 s.h.
MIS I	3 s.h.
Principles of Management	3 s.h.
Accounting Principles I/II	6 s.h.
Personal Income Tax	3 s.h.
Marketing	3 s.h.
Money and Banking	3 s.h.

## Agriculture and Agricultural Related

The range of career opportunities and majors in agriculture is so great that it is impossible to list a suggested curriculum for each. The catalog for Iowa State University states: Requirements for any four-year curriculum are at least as extensive as those shown below.

Communication Skills I & II	8 s.h.
Mathematics, Chemistry, Computer Science, Physics, and Statistics	13 s.h.
Biological Principles, Zoology, Botany, Microbiology, Genetics	6 s.h.
Economics, Government, Psychology, Sociology (Economics, Government required of most curriculums)	6 s.h.
Art, History, Literature, Music, Philosophy	6 s.h.

Since there is a wide variation in the required courses for the various curricula in agriculture, it is the responsibility of each student, in consultation with his/her advisor or counselor, to determine the specific courses required for the particular curriculum or major in which the student is interested.

### Iowa State University

NIACC and Iowa State University's Department of Agricultural Education and Studies have teamed up to design a unique program in agriculture. The first two years of the program can be taken at NIACC and the final two years are completed at Iowa State University. Students completing the NIACC program are awarded an associate in applied science degree in Agricultural Operations. Those continuing on to complete the two-year program at ISU will receive a bachelor of science degree in Agricultural Studies. Note: Iowa State University College of Agriculture students must certify English proficiency by obtaining a "C" or better in written and verbal communication courses. Students completing the prescribed courses will fulfill the College of Agriculture's intensive requirements in ethics, problem solving, communication, and environment.

The following courses have been articulated with Iowa State University's College of Agriculture.

Animal Science I	3 s.h.
Animal Science II	3 s.h.
Computer Applications for Agriculture	3 s.h.
Crop Science I	3 s.h.
Crop Science II	3 s.h.
Intro to Ag Business	3 s.h.

## Art

Communication Skills I & II	8 s.h.
Art History I	4 s.h.
Art History II	4 s.h.
Drawing	3 s.h.
Ceramics	3 s.h.
Two-Dimensional Design	3 s.h.
Graphic Design	3 s.h.
Painting I	3 s.h.
Painting II	3 s.h.
Creative Photography	3 s.h.
Natural Science	8 s.h.
Social Science	8 s.h.

The art major should take additional hours or general education in the pursuit of the associate in arts degree.

### Drake University

Drake offers majors in Art History, Drawing, Graphic Design, Painting, Printmaking, and Sculpture, and also offers a minor in art. Students wanting to teach art in elementary or secondary school may complete an endorsement through the School of Education at Drake. Students interested in Drake's art programs should contact the Department of Art and Design early to plan for transfer and scholarship portfolio review.

Communication Skills I & II	4 s.h.
Communication Skills - Speaking	2 s.h.
History	6 s.h.
Life Science (must include lab)	4 s.h.
Physical Science (must include lab)	4 s.h.
Mathematics (College Algebra or higher)	3-4 s.h.
Values and Ethics	3 s.h.
International/Multicultural Awareness	3 s.h.
History of Art I & II	8 s.h.
Drawing	3 s.h.*
Two-Dimensional Design	3 s.h.*
Painting I, II	6 s.h.*
Intro Computer-Aided Graphic Design	3 s.h.*
Computer-Aided Images	3 s.h.*

\*Credit for specific requirements for art majors may require portfolio validation in studio courses and proficiency validation in Art History courses. All art courses with a grade of "C" or better can count as art electives.

Many of the courses listed above also fulfill Drake curriculum requirements. For specific Drake curriculum (general education) information, students should access the Drake curriculum website at <http://www.educ.drake.edu/dc> or contact the Office of Admission,

1-800-44-DRAKE ext. 3181. It is recommended that students planning for transfer to Drake save NIACC course syllabi for in-depth review for Drake curriculum outcomes fulfillment upon transfer.

### **Simpson College**

Courses which may be taken at North Iowa Area Community College to complete major requirements at Simpson College:

Art History I	4 s.h.
Art History II	4 s.h.
Art in Elementary School	3 s.h.
Drawing	3 s.h.
Ceramics	3 s.h.
Creative Photography	3 s.h.
Intermediate Photography	3 s.h.
Painting I	3 s.h.
Painting II	3 s.h.
Two-Dimensional Design	3 s.h.

### **Upper Iowa University**

Students should consider taking the following courses to meet requirements. Completion of the A.A. degree at NIACC will meet the general education requirements.

Art History I & II	8 s.h.
Drawing	3 s.h.
Ceramics or Painting I	3 s.h.
Two-Dimensional Design	3 s.h.

## **Art Education**

### **Upper Iowa University**

#### RESIDENTIAL CAMPUS

Students should consider taking the following courses to meet requirements in the following majors. Completion of the A.A. degree at NIACC will meet the general education requirements.

History of Art I and II	8 s.h.
Drawing	3 s.h.
Ceramics	3 s.h.
Painting I and II	6 s.h.
Art in the Elementary School	3 s.h.

## **Athletic Trainer**

### **Iowa State University**

The athletic training program prepares students for the NATA certification examination. Admission to this program is determined by GPA in foundation courses and clinical hours under a certified athletic trainer. The program is administered through the Department of Health and Human Performance. See course recommendations under Physical Education- Athletic Training.

Also available at the University of Iowa, the University of Northern Iowa, Minnesota State University - Mankato, and Upper Iowa University. (Need 1500 hours of supervised training.)

### **Simpson College**

Courses that may be taken at North Iowa Area Community College to complete major requirements:

Kinesiology	4 s.h.
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## **Biology**

### **Grand View College**

Completion of the A.A. Degree at NIACC will meet most general education requirements; the following courses are recommended as electives or general education within one's A.A. studies:

College Algebra and Trigonometry II	4 s.h.
Environmental Science	3 s.h.
Microbiology	4 s.h.
Chemistry Principles I/II	10 s.h.
Genetics	4 s.h.
Precalculus	4 s.h.
Anatomy and Physiology I/II	8 s.h.
Organic Chemistry I/II	10 s.h.
General Physics I/II or College Physics I/II	8-10 s.h.

### **Upper Iowa University**

#### RESIDENTIAL CAMPUS

Students should consider taking the following courses to meet requirements in the following majors. Completion of the A.A. degree at NIACC will meet the general education requirements.

Biology I and II	6 s.h.
Microbiology	4 s.h.
General Chemistry I and II	6 s.h.
General Physics I and II or Organic Chemistry I and II	8-10 s.h.

## **Biology and Environmental Science**

### **Simpson College**

Courses which may be taken at North Iowa Area Community College to complete major requirements at Simpson College:

Biology I and II	8 s.h.
Microbiology	4 s.h.
Human Biology	*4 s.h.
Genetics	4 s.h.
Nutrition OR Health and Nutrition	*3 s.h.
Anatomy and Physiology I and II	8 s.h.
Chemistry Principles I and II	10 s.h.
General Physics I and II OR College Physics I and II	8-10 s.h.

\* Human Biology, Nutrition, and Health and Nutrition do not fulfill a requirement for Biology or Environmental Science

## Business

The first two years of a four-year program in business administration, accounting, business education, or any other curriculum in business administration will usually consist primarily of liberal arts. After completion of the first two years of a four-year program in business, the student applies for admission at the selected transfer institution. It is at this time that he/she is asked to indicate a chosen business major and is advised to meet requirements for the degree. The requirements of the various four-year institutions vary somewhat; hence, the student should check carefully the admission and curriculum requirements of the institution to which he/she plans to transfer.

The following courses are common to all business curricula at the colleges listed below:

Communication Skills I & II	8 s.h.
Macro and Microeconomics	6 s.h.
Introduction to Computers	3 s.h.
Intro to Statistics	3 s.h.
Accounting Principles I & II	6 s.h.
Social Sciences	3 s.h.
Humanities	8 s.h.
College Mathematics	3-4 s.h.

In addition, these colleges have the following specific requirements:

### **Buena Vista University (Mason City Campus)**

#### ACCOUNTING

Business Law I	3 s.h.
Quantitative Methods	3 s.h.
Marketing	3 s.h.
Business Statistics	3 s.h.

#### MANAGEMENT/ENTREPRENEURSHIP

Principles of Management	3 s.h.
Business Law I	3 s.h.
Quantitative Methods	3 s.h.
Marketing	3 s.h.
Business Statistics	3 s.h.
Human Resource Management	3 s.h.

#### FINANCE AND BANKING

Quantitative Methods	3 s.h.
Business Law I	3 s.h.
Business Statistics	3 s.h.

#### MANAGEMENT INFORMATION SYSTEMS

Quantitative Methods	3 s.h.
Business Law I	3 s.h.
Marketing	3 s.h.
Business Statistics	3 s.h.
MIS I	3 s.h.

### **Drake University**

#### BUSINESS

Accounting, Actuarial Science, Finance, General Business, Information Systems, Insurance, International Business, Management, Marketing; all majors in the College of Business and Public

Administration are offered as joint majors with Accounting.

Accounting and Actuarial Science major applicants must have a cumulative GPA of at least 2.50 for admission.

Courses that are recommended as part of the common business curricula:

Microeconomics	3 s.h.
Macroeconomics	3 s.h.
Accounting Principles I	3 s.h.
Accounting Principles II	3 s.h.
Business Law I	3 s.h.
Calculus for Business*	3 s.h.
Business Statistics	3 s.h.

\*Analytic Geometry and Calculus I may be taken instead of Calculus for Business. Students interested in Actuarial Science as a major need to take Analytic Geometry and Calculus I, II, and III.

For specific general education requirements, business majors should access the Drake curriculum website at [www.edu.drake.edu/dc](http://www.edu.drake.edu/dc) or contact the Office of Admissions 1-800-44-DRAKE, ext. 3181. It is recommended that NIACC students save their course syllabi for review for Drake curriculum outcomes fulfillment upon transfer.

### **Grand View College**

Completion of the A.A. Degree at NIACC will meet most general education requirements; the following courses are recommended as electives or general education within one's A.A. Studies:

Business Law I	3 s.h.
MIS I	3 s.h.
Principles of Management	3 s.h.
Accounting Principles I/II	6 s.h.
Business Communications	3 s.h.
Marketing	3 s.h.

### **Iowa State University**

ACCOUNTING, FINANCE, MANAGEMENT, MANAGEMENT INFORMATION SYSTEMS, MARKETING, PRODUCTION/OPERATIONS MANAGEMENT, TRANSPORTATION AND LOGISTICS

Students at Iowa State University begin in the College of Business as a Pre-Business student. Students will declare a major and enter the professional program once they have earned a 2.5 GPA (cumulative or foundation) and have completed 30 credits including the foundation courses. The foundation courses include:

Communication Skills I and II	6-8 s.h.
Quantitative Methods	3 s.h.
Accounting Principles I	3 s.h.
Introduction to Computers	3 s.h.
Microeconomics	3 s.h.
Business Statistics	3 s.h.

IST Major Courses . . . . .	40-44 s.h.
Communication Skills I and II . . . . .	8 s.h.
Accounting Principles I and II . . . . .	6 s.h.
Microeconomics . . . . .	3 s.h.
Macroeconomics . . . . .	3 s.h.
Quantitative Methods . . . . .	3 s.h.

**Minnesota State University - Mankato**

ACCOUNTING, FINANCE, MANAGEMENT, MARKETING, AND INTERNATIONAL BUSINESS

All majors in the MSU College of Business have the same core course requirements. Courses that are recommended as part of the common business core are:

Macroeconomics . . . . .	3 s.h.
Microeconomics . . . . .	3 s.h.
Accounting Principles I . . . . .	3 s.h.
Accounting Principles II . . . . .	3 s.h.
College Algebra & Trigonometry I . . . . .	4 s.h.
Business Statistics . . . . .	3 s.h.
Computer Applications . . . . .	3 s.h.
Management Information Systems I . . . . .	3 s.h.
World Language (for International Business . . . . . - In Intermediate Level)	8 s.h.

The MSU College of Business also requires a 2.5 cumulative GPA for entrance into the major. Students transferring to MSU with a completed A.A. degree generally meet the MSU general education requirements. However, additional lower division courses may be required for the major if not already complete.

**Simpson College**

Courses which may be taken at North Iowa Area Community College to complete major requirements at Simpson College.

MANAGEMENT ACCOUNTING & ECONOMICS

In tro to Busi ness OR	
Principles of Management . . . . .	3 s.h.
Busi ness Law I . . . . .	3 s.h.
Busi ness Law II OR Law and Bank ing . . . . .	3 s.h.
Macroeconomics . . . . .	3 s.h.
Microeconomics . . . . .	3 s.h.
Ethics . . . . .	3 s.h.
General Insurance . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.
Cal cul us for Busi ness . . . . .	3 s.h.
Marketing . . . . .	3 s.h.
In tro to Ac count ing or Ac count ing Princ I . . . . .	3 s.h.
Accounting Principles II . . . . .	6 s.h.
Man aging the En tre pre neurial Ven ture OR	
Sem i nar in En tre pre neurship . . . . .	3 s.h.
Man aging Hu man Re sources . . . . .	3 s.h.
On-The-Job Training . . . . .	3 s.h.

**University of Iowa**

(Min. 2.75 GPA)

Admission is competitive, based on cumulative GPA and combined grades in six prerequisite courses. Students hoping to enter the College of Business may not have a grade lower than "C" on any individual prerequisite course.

Apply to the College of Liberal Arts as a pre-business major after one year. Iowa will move student to business when all admission prerequisite and GPA criteria are met. This early entry is best for financial aid, housing, and course availability.

ACCOUNTING, ECONOMICS, FINANCE, MANAGEMENT AND ORGANIZATIONS, MANAGEMENT SCIENCES, AND MARKETING

Cal cul us for Busi ness . . . . .	3 s.h.
Accounting Principles I & II . . . . .	6 s.h.
Busi ness Law I . . . . .	3 s.h.
Global and Cul tural Studies . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.

Effective Summer 2002 and after, the University of Iowa College of Business will require second level proficiency in a single foreign language to graduate.

**University of Northern Iowa**

(Min. 2.50 GPA)

ACCOUNTING, FINANCE, MANAGEMENT, MARKETING, MANAGEMENT INFORMATION SYSTEMS

Quantitative Methods . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.
In tro duction to Com puters and In for ma tion Sys tems. . . . .	3 s.h.
Macroeconomics . . . . .	3 s.h.

BUSINESS TEACHING MAJOR

In tro duction to Teach ing. . . . .	3 s.h.
Hu man Growth and De vel op ment . . . . .	3 s.h.
Ad vanced Key board ing (re com mended, not re quired) . . . . .	3 s.h.
Quantitative Methods . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.
In tro duction to Com puters and In for ma tion Sys tems . . . . .	3 s.h.
Macroeconomics . . . . .	3 s.h.

**Upper Iowa University**

RESIDENTIAL CAMPUS

Students should consider taking the following courses to meet requirements in the following majors. Completion of the A.A. degree at NIACC will meet the general education requirements in addition to courses common to all business curricula.

MARKETING MAJOR

Busi ness Law I . . . . .	3 s.h.
MIS I. . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.
Marketing . . . . .	3 s.h.
Principles of Management . . . . .	3 s.h.
Principles of Advertising . . . . .	3 s.h.
Retailing . . . . .	3 s.h.

**ACCOUNTING MAJOR**

Business Law I	3 s.h.
MIS I	3 s.h.
Business Statistics	3 s.h.
Marketing	3 s.h.
Principles of Management	3 s.h.

**MANAGEMENT MAJOR**

Business Law I	3 s.h.
MIS I	3 s.h.
Business Statistics	3 s.h.
Marketing	3 s.h.
Principles of Management	3 s.h.
Principles of Supervision	3 s.h.
Management of Human Resources	3 s.h.

**MIS MAJOR**

Business Law I	3 s.h.
MIS I	3 s.h.
Business Statistics	3 s.h.
Marketing	3 s.h.
Principles of Management	3 s.h.
Database Management	3 s.h.

**Wartburg College****ACCOUNTING, FINANCE**

One laboratory science	4 s.h.
Western Civilization	4 s.h.
Quantitative Methods	3 s.h.
Intro to Computers and Information Systems	3 s.h.
Business Statistics	3 s.h.

**MANAGEMENT, MARKETING**

One laboratory science	4 s.h.
Western Civilization	4 s.h.
Principles of Management	3 s.h.
Marketing	3 s.h.
Business Law I	3 s.h.
Quantitative Methods	3 s.h.
Intro to Computers and Information Systems	3 s.h.
Business Statistics	3 s.h.

**INTERNATIONAL BUSINESS**

One laboratory science	4 s.h.
Western Civilization	4 s.h.
French, German, or Spanish (through the intermediate level)	8-16 s.h.
Quantitative Methods	3 s.h.
Intro to Computers and Information Systems	3 s.h.
Business Statistics	3 s.h.

**Chiropractic****Palmer (Min. GPA 2.50 and 90 s.h.)**

Communication Skills I & II	8 s.h.
General Chemistry I & II	10 s.h.
OR	
Chemistry Prin. I & II	10 s.h.
Organic Chemistry I & II	10 s.h.
General Physics I & II	8 s.h.
Anatomy & Physiology I and II	8 s.h.
Humanities/Social Sciences	15 s.h.
General Psychology	3 s.h.

**Coaching**

Since February 1, 1985, NIACC has been designated as an approved provider of the Coaching Authorization Training Program for State of Iowa licensure. The program consists of four courses: Theory, Ethics, and Professional Responsibilities of Coaching; Introduction to Anatomy and Physiology for Coaching; Human Development in Sports; and Care and Prevention of Athletic Injuries. This program is approved for teachers desiring to obtain the coaching endorsement, as well as others seeking the coaching authorization. Completion of the program enables the student to be licensed to coach any sport at the public school or community college level.

**Iowa State University**

A State of Iowa coaching endorsement can be earned through the Physical Education Licensure program. A coaching minor is also available. The endorsement is administered through the Department of Health and Human Performance. See course recommendations for the coaching endorsement under Physical Education-Licensure.

**Simpson College**

A State of Iowa coaching endorsement can be earned through the Physical Education Licensure program. The endorsement is administered through the Physical Education Department. See course recommendations for the coaching endorsement under Physical Education-Licensure.

**Computer Science****Drake University****COMPUTER SCIENCE**

Students may take the following courses in the major area at NIACC:

Analytic Geometry and Calculus I & II	8 s.h.
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For specific Drake Curriculum (general education) requirements, students should access the Drake Curriculum website at <http://www.edu.drake.edu/dc> or contact the Office of Admissions 1-800-44-DRAKE, ext. 3181. It is recommended that NIACC students save NIACC course syllabi for in-depth review for Drake Curriculum outcomes fulfillment upon transfer.

**Grand View College**

Completion of the A.A. Degree at NIACC will meet most general education requirements; the following courses are recommended as electives or general education within one's A.A. Studies:

College Algebra and Trigonometry I/II	8 s.h.
C/C++ Programming	3 s.h.

**Iowa State University**

## COMPUTER SCIENCE

Courses which may be taken at North Iowa Area Community College to meet specific major requirements at Iowa State University:

- Communication Skills I & II . . . . . 8 s.h.
- Analytic Geometry and Calculus I & II . . . . . 8 s.h.
- College Physics I & II . . . . . 10 s.h.

Complete additional courses to satisfy A.A. degree requirements at North Iowa Area Community College.

**Minnesota State University - Mankato**

## COMPUTER SCIENCE

Students interested in a straight Computer Science (CS) major should complete the requirements for the bachelor of science degree in addition to the following courses at North Iowa Area Community College:

- Communication Skills I & II . . . . . 8 s.h.
- Analytic Geometry and Calculus I & II . . . . . 8 s.h.
- Chemistry Principles I & II OR  
College Physics I & II OR  
Biology I & II . . . . . 8-10 s.h.

## CIS/MIS

Courses which may be taken at NIACC to meet specific major requirements:

- Communication Skills I & II . . . . . 8 s.h.
- Intro to Statistics . . . . . 3 s.h.
- Analytic Geometry and Calculus I . . . . . 4 s.h.

Students transferring to MSU with a completed A.A. degree will likely have met the MSU general education requirements. However, additional lower division courses may be required for the major if not already complete.

If the student plans to complete a Business Administration and Computer Science Interdisciplinary (ICIS) major, he/she should complete the Business Administration Curriculum and fill in the electives with the above Computer Science courses. Computer Science (CS) majors should write to the Admissions Office and ask for a computer science brochure.

**Simpson College**

## COMPUTER SCIENCE

Courses which may be taken at North Iowa Area Community College to complete major requirements at Simpson College:

- Analytical Geometry and Calc I and II . . . . . 8 s.h.
- Business Statistics . . . . . 3 s.h.

## COMPUTER INFORMATION SYSTEMS

Courses that may be taken at North Iowa Area Community College to complete major requirements at Simpson College:

- Business Statistics . . . . . 3 s.h.
- Analytical Geometry and Calculus I and II . . . . . 8 s.h.
- Intro to Business or  
Principles of Management . . . . . 3 s.h.
- Macroeconomics . . . . . 3 s.h.
- Microeconomics . . . . . 3 s.h.

Intro to Accounting or

- Accounting Principles I . . . . . 3 s.h.

**University of Northern Iowa**

## COMPUTER SCIENCE

Courses which may be taken at North Iowa Area Community College to meet specific major requirements at University of Northern Iowa:

B.A. Degree:

- Analytic Geometry and Calculus I and Intro to  
Statistics . . . . . 7 s.h.

B.S. Degree:

- Analytic Geometry and Calculus I & II . . . . . 8 s.h.
- Complete additional courses to satisfy A.A. degree requirements at North Iowa Area Community College.

## COMPUTER INFORMATION SYSTEMS

Courses which may be taken at North Iowa Area Community College to meet specific major requirements at the University of Northern Iowa:

- Accounting Principles I and II . . . . . 8 s.h.
- Introduction to Statistics . . . . . 3 s.h.
- Macroeconomics . . . . . 3 s.h.

Complete additional courses to satisfy A.A. degree requirements at North Iowa Area Community College.

**Conservation**

This major has a wide variety of preparation possibilities and should be discussed with your counselor. See Agriculture.

**Conservation Management****Upper Iowa University**

Conservation Management is designed for students seeking a career in conservation.

Courses which may be taken at North Iowa Area Community College to meet specific major requirements at Upper Iowa University:

- Biology I and II . . . . . 8 s.h.
- Microbiology . . . . . 4 s.h.
- Principles of Management . . . . . 3 s.h.

Intro to American Government OR

- American State and Local Government . . . 3 s.h.

## Criminal Justice

### **Buena Vista University**

Courses which may be taken at North Iowa Area Community College to meet specific major requirements at Buena Vista University:

General Psychology . . . . .	3 s.h.
Sociology or Social Problems . . . . .	3 s.h.
American Government . . . . .	3 s.h.
Criminal Law I . . . . .	3 s.h.
Criminal Law II . . . . .	3 s.h.
Administration of Justice . . . . .	3 s.h.
Criminal Investigation . . . . .	3 s.h.

Complete additional courses to satisfy A.A. degree requirements at North Iowa Area Community College. A second major or minor is required for this degree.

### **Grand View College**

Completion of the A.A. Degree at NIACC will meet most general education requirements; the following courses are recommended as electives

General Psychology . . . . .	3 s.h.
Sociology . . . . .	3 s.h.
Social Problems . . . . .	3 s.h.
Computer Applications . . . . .	3 s.h.
Administration of Justice . . . . .	3 s.h.

### **Simpson College**

Courses that may be taken at North Iowa Area Community College to complete major requirements:

MAJOR (Take these in addition to those listed with choice of concentration below):

Business Statistics . . . . .	3 s.h.
Ethics . . . . .	3 s.h.

#### WITH JUSTICE CONCENTRATION:

Criminal Law I . . . . .	3 s.h.
Social Problems . . . . .	3 s.h.
Criminal Investigation . . . . .	3 s.h.

#### WITH ADMINISTRATION CONCENTRATION:

Intro to Accounting or Accounting Principles I . . . . .	3 s.h.
Intro to Business or Principles of Management . . . . .	3 s.h.
Managing Human Resources . . . . .	3 s.h.
Criminal Investigation . . . . .	3 s.h.

#### WITH CORRECTIONS CONCENTRATION:

Social Problems . . . . .	3 s.h.
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## Dentistry

### **University of Iowa**

Each applicant for the College of Dentistry at the University of Iowa must present three years of credit comprising not less than 94 semester hours of work. Preference for admission is given to students who have completed a standard baccalaureate degree or who are pursuing a combined program in which they will earn the baccalaureate degree while completing the freshman year in dentistry. The academic work would include the courses listed below which are attainable at North Iowa Area Community College:

Communication Skills I & II . . . . .	8 s.h.
Biology I & II . . . . .	8 s.h.
General Physics I and II . . . . .	8 s.h.
Chemistry Principles I and II . . . . .	10 s.h.
Organic Chemistry I and II . . . . .	10 s.h.

General Education Electives: sufficient course work in social sciences, philosophy, history, foreign languages, and mathematics to provide a well-rounded educational background.

All students are required to take the Dental Admission Test (DAT) on or before August 1 of the year preceding the year they expect to matriculate in a dental school. Test application deadline typically is 30 to 45 days prior to the exam.

Applicants must submit a completed application form to the American Association of Dental Schools Application Service (AAD SAS). The AAD SAS forms are available from the University Office of Admissions or the College of Dentistry Office for Student Affairs. A computerized DAT is available throughout the year at designated Sylvan Testing Centers.

Applications are accepted beginning June 1 of the year prior to the year for which application is made. Completed applications should be on file at AAD SAS by November 1. Applicants should apply as early as possible and should not delay until after the Dental Admission Test (DAT) is taken. Notifications of acceptance are sent beginning December 1.

## Education

Secondary Teacher Education--for specific information about teaching physical education, see Physical Education-Licensure.

There is no standardized curriculum in education. Each college or university has its own requirements which differ in varying degrees from other schools. Below are listed representative colleges to which most North Iowa Area Community College students transfer, together with a list of courses which may be obtained at North Iowa Area Community College to meet necessary requirements. There are some states that do not accept transfer education courses unless they are taken in that particular state.

**Buena Vista University**

ELEMENTARY EDUCATION

Children's Literature . . . . .	3 s.h.
U.S. History or Non U.S. History . . . . .	3 s.h.
American Government . . . . .	3 s.h.
Geography course . . . . .	3 s.h.
Exploring Music or Essentials of Art or Intro to Theater OR Art History . . . . .	3 s.h.
Physical Science OR Intro to Chemistry . . . . .	4 s.h.
Biology . . . . .	3 s.h.
Communication Skills I & II . . . . .	8 s.h.
General Psychology . . . . .	3 s.h.
Mathematics for Elementary Teachers . . . . .	3 s.h.
Literature course . . . . .	3 s.h.
Introduction to Teaching . . . . .	3 s.h.
Educational Media Techniques . . . . .	3 s.h.
Introduction to Philosophy or Ethics . . . . .	3 s.h.
Educational Psychology and Human Growth OR Child Psychology . . . . .	3 s.h.
Intermediate Algebra . . . . .	4 s.h.

1. Students seeking admission into the Teacher Education program at Buena Vista University need a minimum GPA of 2.50. Students are also required to take the PRAXIS I (pre-professional skills test) and receive minimum scores of 171 (Math), 173 (Reading), and 172 (Writing). The PRAXIS may be taken before transferring to Buena Vista University. Also, all Buena Vista University students are required to take Proficiency Exams in the areas of Math and Written Communications.

2. All Incompletes must be completed before eligible to student teach.

3. Communication Skills I & II (8 s.h.) waives public speaking requirement.

Endorsements available in Reading, Pre-K, Middle School, as well as a minor in Multicategorical- Resource Special Education.

SECONDARY EDUCATION

U.S. History OR American Government . . . . .	3 s.h.
Exploring Music OR Essentials of Art OR Intro to Theater OR Art History . . . . .	3 s.h.
Physical Science OR Intro to Chemistry . . . . .	4 s.h.
Biology . . . . .	3 s.h.
Communications I and II . . . . .	8 s.h.
General Psychology . . . . .	3 s.h.
Educational Psychology and Human Growth OR Child Psychology . . . . .	3 s.h.
Public Speaking . . . . .	3 s.h.
Creative Writing . . . . .	3 s.h.
Introduction to Teaching . . . . .	3 s.h.
Educational Media Techniques . . . . .	3 s.h.
Introduction to Philosophy OR A.A. degree . . . . .	3 s.h.
Intermediate Algebra . . . . .	4 s.h.

1. Secondary Education requires major in content area.

2. Students seeking admission into the Teacher Education program at Buena Vista University need a minimum GPA of 2.50. Students are also required to take the PRAXIS I (pre-professional skills test) and receive minimum scores of 171 (Math), 173 (Reading), and 172 (Writing). The PRAXIS may be taken before transferring to Buena Vista University. Also, all Buena Vista University students are required to take Proficiency Exams in the areas of Math and Written Communications.

3. All Incompletes must be completed prior to beginning student teaching.

4. Communications I and II (8 s.h.) waives public speaking course requirement.

**Drake University**

EDUCATION

Students planning to transfer into the School of Education at Drake University need a minimum cumulative GPA of 2.50 at 60 semester hours of credit. For admission into teacher education at Drake, students are also required to take the PPST (pre-professional skills test) and receive minimum scores of: Math - 169, Reading - 171, Writing - 171. The PPST may be taken prior to transfer or after arrival at Drake.

Both Elementary and Secondary Education majors complete the following courses:

Communication Skills I and II . . . . .	8 s.h.
Mathematics for Elementary Teachers (elementary only) . . . . .	3 s.h.
American History . . . . .	6 s.h.
American Government . . . . .	3 s.h.
Public Speaking . . . . .	2 s.h.
Biology I (may take Biological Principles + Lab) . . . . .	4 s.h.
Chemistry Principles I . . . . .	5 s.h.
Intro to Physical Science + Lab . . . . .	4 s.h.
Intro to Teaching . . . . .	3 s.h.
Educational Measurement & Evaluation . . . . .	2 s.h.
Ed Media & Classroom Computing Techniques . . . . .	3 s.h.
Mainstreaming the Exceptional Learner . . . . .	2 s.h.

It is advised that students interested in an education major decide on a teaching content area or area of endorsement and begin taking required courses at NIACC. Consult the Drake University/NIACC Articulation agreement or contact the Associate Dean in the School of Education (1-800-44-DRAKE ext. 2599) for course recommendations.

Many of the courses listed above also fulfill Drake Curriculum requirements. For specific Drake Curriculum website at <http://www.educ.drake.edu/dc> or contact the Office of Admission, 1-800-44-DRAKE ext. 3181. It is recommended that students planning for transfer to Drake save NIACC course syllabi for in-depth review for Drake Curriculum outcomes fulfillment upon transfer.

**Grand View College**

ELEMENTARY EDUCATION

General Psychology . . . . .	3 s.h.
Educational Psychology . . . . .	3 s.h.
Human Growth and Development . . . . .	3 s.h.
Essentials of Art . . . . .	3 s.h.
Art in the Elementary School . . . . .	3 s.h.
Children's Literature . . . . .	3 s.h.
Mathematics for Elementary Teachers . . . . .	3 s.h.
College Algebra and Trigonometry . . . . .	4 s.h.
Introduction to Teaching . . . . .	3 s.h.
Educational Measurement and Evaluation . . . . .	2 s.h.
Including Exceptional Students . . . . .	3 s.h.
Educational Media . . . . .	3 s.h.

ELEMENTARY/SECONDARY ART EDUCATION

General Psychology . . . . .	3 s.h.
Educational Psychology . . . . .	3 s.h.
Human Growth and Development . . . . .	3 s.h.
College Algebra and Trigonometry . . . . .	4 s.h.
Introduction to Teaching . . . . .	3 s.h.
Educational Measurement and Evaluation . . . . .	2 s.h.
Including Exceptional Students . . . . .	3 s.h.
Art History I/II . . . . .	6 s.h.
Drawing . . . . .	3 s.h.
Ceramics . . . . .	3 s.h.
2-D Design . . . . .	3 s.h.
Graphic Design . . . . .	3 s.h.
Painting I/II . . . . .	6 s.h.
Digital Illustration . . . . .	3 s.h.

SECONDARY EDUCATION/BUSINESS ADMINISTRATION

General Psychology . . . . .	3 s.h.
Educational Psychology . . . . .	3 s.h.
Human Growth and Development . . . . .	3 s.h.
Macroeconomics . . . . .	3 s.h.
Microeconomics . . . . .	3 s.h.
Business Law I/II . . . . .	6 s.h.
MIS I . . . . .	3 s.h.
Accounting Principles I/II . . . . .	6 s.h.
College Algebra and Trigonometry . . . . .	4 s.h.
Introduction to Teaching . . . . .	3 s.h.
Educational Measurement and Evaluation . . . . .	2 s.h.
Including Exceptional Students . . . . .	3 s.h.
Educational Media . . . . .	3 s.h.

**Iowa State University**

High School Teacher (Secondary Teacher Education). Students entering ISU for secondary education licensure are admitted into the college that offers their teaching subject (e.g., math, English, chemistry, etc. to Liberal Arts and Sciences, Agricultural Education, to the College of Agriculture). The College of Liberal Arts and Sciences will honor the A.A. degree as fulfilling the general education requirements of that college. Students should refer to that curriculum in this guide as well as the section in the ISU catalog titled "Teacher Education" and confer with the counselors at North Iowa Area Community College in preparing a schedule.

ELEMENTARY EDUCATION

The requirements for elementary education at Iowa State University are quite structured. The following list of courses will meet requirements for Iowa State University:

Communication Skills I and II . . . . .	8 s.h.
Human Growth and Development . . . . .	3 s.h.
American Government . . . . .	3 s.h.
Additional Social Science . . . . .	3 s.h.
Anthropology, Economics, Geography, Psychology, Sociology, Humanities . . . . .	6 s.h.
Art, Foreign Language, History, Literature, Music, Philosophy, Theater, Physical Education . . . . .	3 s.h.
(May include First Aid and Physical Safety)	
Biological Science . . . . .	3 s.h.
Biological Principles, Anatomy & Physiology	
Physical Science . . . . .	4 s.h.
Physical Science, Principles of Physics, General Chemistry, Astronomy, General Physics	
Mathematics for Decision Making . . . . .	3 s.h.
Mathematics for Elementary Teachers . . . . .	3 s.h.
Additional Mathematics . . . . .	4 s.h.
College Algebra/Trigonometry, Pre-Calculus, Analytical Geometry/Calculus I	
Introduction to Teaching . . . . .	3 s.h.
Children's Literature . . . . .	3 s.h.
Educational Psychology . . . . .	3 s.h.
Art in Elementary School . . . . .	3 s.h.

Additional courses may fit into various areas of specialization. Contact an ISU advisor for details at 515-294-7021.

All students seeking recommendation for a teaching license from ISU must be admitted to the Teacher Education Program. Eligibility for the program is obtained after completing at least 9 credits at ISU with a 2.50 GPA, an ACT composite of 19 or greater, at least a "C" grade in Communications Skills I and II, and good mental/physical health. Students who do not meet the ACT requirements may re take the test or take the PPST and receive minimum scores of: 172 - Reading; 172 - Writing; and 170 - Mathematics.

**Minnesota State University - Mankato**

SECONDARY EDUCATION (High School Teaching)

In general, students planning to teach in the secondary schools should follow a general liberal arts curriculum. Students should consult the MSU catalog for specific freshman-sophomore level courses required in their major field.

ELEMENTARY EDUCATION

The course requirements for elementary education at MSU are very structured. Students are encouraged to speak with an advisor in the MSU College of Education to plan their transfer into this program. The following list of courses at NIACC will satisfy some of the requirements for elementary education at Minnesota State University, Mankato:

Art in the Elementary School . . . . .	3 s.h.
Communication Skills I and II . . . . .	8 s.h.
Mathematics for Decision Making . . . . .	3 s.h.
Mathematics for Elementary Teachers . . . . .	3 s.h.

Biological Principles & Lab	4 s.h.
Principles of Physics	4 s.h.
American History	6 s.h.
Children's Literature	3 s.h.
Intro to Acting	3 s.h.

A 2.5 cumulative grade point average is required for professional education. The Pre-Professional Skills Test must be complete and on file at MSU before a student is allowed to take professional education courses. Students should contact the MSU College of Education Advising Center with questions.

**Simpson College**

**EDUCATION**

Students planning to transfer into the Teacher Education program at Simpson will need a minimum cumulative GPA of 2.75 to be accepted for admission to the program. Students will be required to take the C-BASE basic skills test. It is advised that students select a content area and begin taking classes at NIACC if possible. You may contact the Director of Transfer Enrollment at Simpson (1-800-362-2454) for course recommendations.

Courses which may be taken at North Iowa Area Community College to complete major requirements at Simpson College:

**EDUCATION**

Communication Skills I and II	8 s.h.
Intro to Teaching	3 s.h.
Human Growth and Development Including Exceptional Students	3 s.h.
Ed Media & Classroom Computing Techniques	3 s.h.

**Elementary Only:**

Math for Elementary Teachers	3 s.h.
Intro to American Government	3 s.h.
American History to 1877	3 s.h.
OR American History 1877 to Present	3 s.h.
Western Civilization to 1648	4 s.h.
OR World Literature I	3 s.h.
Western Civilization 1648 to Present	4 s.h.
OR World Literature II	3 s.h.

**One of the following:**

Biological Principles and Lab	3 s.h.
Environmental Science	3 s.h.
Biology I	4 s.h.
Biology II	4 s.h.
Human Biology	4 s.h.

**AND**

**One of the following:**

Principles of Physics	4 s.h.
General Chemistry I	5 s.h.
Chemistry Principles I	5 s.h.
Introductory Chemistry I	4 s.h.
General Physics I	4 s.h.
College Physics I	5 s.h.

**University of Iowa**

**EDUCATION**

Students planning to transfer into the College of Education at The University of Iowa need a minimum of a 2.70 cumulative GPA and at least 30 semester hours of credit. Admission is competitive and is based on an achievement profile which includes: GPA; PRAXIS I; experience; references; and a personal statement. In addition, students should have completed an approved 10-hour volunteer practicum. Testing and registration details for the PRAXIS I are available at [www.teachingandlearning.org](http://www.teachingandlearning.org).

Education majors fulfill the same General Education Program Requirements (GERs) as students in the College of Liberal Arts. Therefore, NIACC students may use the A.A. degree to automatically fulfill all GERs, with the exception of foreign language. Foreign language may be taken in high school or at NIACC to meet these requirements. License requirements include the following courses: college-level math; one biological science; one physical science; one behavioral science; and one general social science.

**ELEMENTARY AND SECONDARY EDUCATION**

In addition to the above requirements, students interested in teaching at the elementary level may wish to include the following:

Intro to Teaching	3 s.h.
Educational Psychology	3 s.h.

**ADDITIONAL SECONDARY EDUCATION REQUIREMENTS**

In addition to the general education requirements explained above, students interested in teaching at the secondary level should consult their NIACC counselor in selecting courses approved for use toward their teaching major. Intro to Teaching and Educational Psychology may also fulfill major requirements.

**APPLICATION DEADLINES:**

- Fall Semester - June 15
- Spring Semester - October 15
- Summer Session - March 15

**University of Northern Iowa**

All education majors should take the Pre-Professional Skills Test (PPST) during their sophomore year and have the scores reported to UNI. Education majors should maintain a minimum 2.5 grade point average.

**ELEMENTARY EDUCATION**

Elementary Education \*K-6 should consider:

Art in the Elementary School	3 s.h.
Communication Skills I and II	8 s.h.
Children's Literature	3 s.h.
Mathematics for Elementary Teachers	3 s.h.

- Biology and Physical Science . . . . . 8 s.h.  
*One course in Life Science and one in Physical Science (at least one must have a lab, if AA is not earned)*
- Child Psychology (not required) . . . . . 3 s.h.
- Human Growth and Development . . . . . 3 s.h.
- Introduction to Teaching . . . . . 3 s.h.
- Ed Media/Classroom Computer Techniques . . . . . 3 s.h.
- Educational Psychology . . . . . 3 s.h.
- Ed Measurement and Evaluation . . . . . 2 s.h.
- Mainstreaming the Exceptional Student . . . . . 2 s.h.

**EARLY CHILDHOOD EDUCATION**

Early Childhood Education majors (birth to grade 3) should consider:

- Mathematics for Elementary Teachers . . . . . 3 s.h.
- Educational Media Techniques . . . . . 3 s.h.
- Children's Literature . . . . . 3 s.h.
- Communication Skills I and II . . . . . 8 s.h.
- Introduction to Teaching . . . . . 3 s.h.
- Human Growth and Development . . . . . 3 s.h.
- Education Psychology . . . . . 3 s.h.
- Ed Measurement & Evaluation . . . . . 3 s.h.
- Mainstreaming the Exceptional Student . . . . . 3 s.h.
- Nutrition . . . . . 3 s.h.
- Biological Principles and Physical Science . . . . . 8 s.h.

**INTEGRATED TECHNOLOGY EDUCATION**

Integrated Technology Education majors should consider:

- Communication Skills I & II . . . . . 8 s.h.
- General Physics I . . . . . 4 s.h.
- Intro to Statistics . . . . . 3 s.h.
- Intro to Teaching . . . . . 3 s.h.
- Human Growth & Development . . . . . 3 s.h.
- Educational Psychology . . . . . 3 s.h.
- Mainstreaming the Exceptional Student . . . . . 2 s.h.
- Educational Measurement & Evaluation . . . . . 2 s.h.

**SPECIAL EDUCATION**

Special education majors (ages 5-21; moderate, severe, profound mental disabilities) should consider:

- Intro to Teaching . . . . . 3 s.h.
- Human Growth and Development . . . . . 3 s.h.
- Educational Psychology . . . . . 3 s.h.
- Educational Measurement & Evaluation . . . . . 2 s.h.
- Ed Media/Classroom Computer Techniques . . . . . 3 s.h.
- Biology and Physical Science . . . . . 8 s.h.

**SECONDARY EDUCATION**

Education majors with an interest in teaching at the secondary level should consider:

- Educational Media Techniques . . . . . 3 s.h.
- Intro to Teaching . . . . . 3 s.h.
- Human Growth and Development . . . . . 3 s.h.
- Educational Psychology . . . . . 3 s.h.
- Educational Measurement & Evaluation . . . . . 2 s.h.
- Biology and Physical Science . . . . . 8 s.h.
- Mainstreaming the Exceptional Student . . . . . 2 s.h.

Available course work in major and/or minor.

Students who plan to receive an Iowa Teacher's license must complete a life and physical science course.

**Wartburg College**

Acceptance into the Teacher Education and Student Teaching programs. Transfer students must complete one term at Wartburg to establish their GPA before applying for acceptance into the above programs.

A 2.5 overall GPA is required in course work taken at Wartburg College.

**ELEMENTARY EDUCATION**

- Introduction to Teaching . . . . . 3 s.h.
- Educational Media Techniques . . . . . 3 s.h.
- Communication Skills I & II . . . . . 8 s.h.
- Children's Literature . . . . . 3 s.h.
- Biological Principles and . . . . . 3 s.h.
- Biological Principles Laboratory . . . . . 1 s.h.
- General Psychology . . . . . 3 s.h.
- Human Growth and Development . . . . . 3 s.h.
- Public Speaking . . . . . 2 s.h.

**SECONDARY EDUCATION**

- Introduction to Teaching . . . . . 3 s.h.
- Educational Media Techniques . . . . . 3 s.h.
- Communication Skills I & II . . . . . 8 s.h.
- General Psychology . . . . . 3 s.h.
- Human Growth and Development . . . . . 3 s.h.

Secondary education majors must also meet the specific departmental requirements in their teaching major at Wartburg College.

**Other Colleges and Universities**

The student who plans to transfer to a college or university other than those listed above should confer with a counselor at North Iowa Area Community College in order that a satisfactory program may be arranged.

**Engineering**

**Iowa State University**

The basic programs for all professional curricula of the College of Engineering are similar, and thus a student may transfer from one department to another within the college without undue loss of time. There are some differences; hence, the student who desires to complete work in minimum time will find it desirable to select a major department as soon as possible. The basic program includes both the following list of courses shared in common and requirements for individual curricula. Students who are not adequately prepared may have to take additional math courses.

Courses which may be taken at North Iowa Area Community College to meet the requirements of the basic program generally common to all professional engineering curricula include the following:

- Communication Skills I and II . . . . . 8 s.h.
- Analytic Geometry and Calculus . . . . . 12 s.h.
- Differential Equations . . . . . 3 s.h.

Chemistry Principles OR	5 s.h.
General Chemistry I and II	10 s.h.
College Physics	10 s.h.
Orientation to Engineering	0 s.h.
Engineering Graphics and Design	3 s.h.
Engineering Problems with FORTRAN	3 s.h.
Statics of Engineering	3 s.h.
Mechanics of Materials	3 s.h.
Socio-Humanistic electives	16-18 s.h.

Mechanics of Materials	3 s.h.
Engineering Graphics and Design	3 s.h.
Engineering Problems with FORTRAN	3 s.h.
Statics of Engineering	3 s.h.
Social Sciences/Humanities	9 s.h.

There are a few exceptions to the above requirements and a few additional required courses for some areas of engineering. See your counselor or engineering instructor or ISU catalog for details.

Students transferring directly to the College of Engineering must have demonstrated success in math, science, and engineering courses (generally a 2.5 or higher combined GPA in these foundation subjects, with no grade lower than a "C"). At a minimum, transfer students need to have completed at least one semester of Calculus and either Chemistry Principles or College Physics.

**Minnesota State University - Mankato**

Engineering curricula offered at Minnesota State University - Mankato are Electrical Engineering and Mechanical Engineering, Civil Engineering, and Computer Engineering.

Courses which may be taken at North Iowa Area Community College to meet the requirements of the basic program common to all professional engineering curricula include the following:

Communication Skills I	3 s.h.
Analytic Geometry and Calculus	12 s.h.
Engineering Graphics and Design	3 s.h.
Statics of Engineering	3 s.h.
Chemistry Principles	5 s.h.
College Physics	10 s.h.

Recommended Humanities and Social Science Electives (consult catalog)

Also required for Electrical Engineering and Mechanical Engineering:

Differential Equations	3 s.h.
Macro or Micro Economics	3 s.h.
Engineering Graphics and Design	3 s.h.
Engineering Problems with FORTRAN	3 s.h.
Orientation to Engineering	0 s.h.

**University of Iowa**

The following Engineering undergraduate degrees are offered at the University of Iowa:

- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Industrial Engineering
- Mechanical Engineering

Courses which may be taken at North Iowa Area Community College to meet the requirements of the basic program common to all professional engineering curricula include the following:

Communication Skills	8 s.h.
Analytic Geometry and Calculus	12 s.h.
Differential Equations	3 s.h.
Chemistry Principles	5-10 s.h.
College Physics	10 s.h.

**Environmental Science/  
Environmental Policy**

**Drake University**

An interdisciplinary program, this new major is housed in the College of Arts & Sciences. This degree is roughly 60 per cent natural science and 40 per cent social science and humanities. It is designed to prepare students for opportunities in several environmental fields. These include environmental analysis, in which biological, chemical, and physical tests are used to assess pollution or environmental impact; environmental management, which concerns the understanding, communication, and administration of environmental policy; and environmental conservation for work with conservation or game laws or as a naturalist. Field experiences will be an important part of the program.

Students planning for this major should include the following NIACC course work:

Biology I	4 s.h.
Chemistry Principles I & II	10 s.h.
Organic Chemistry	5 s.h.
General Physics	4 s.h.
Information and Technological Literacy	3 s.h.
Introduction to Statistics	3 s.h.
Communication Skills I and II	8 s.h.
Ethics	3 s.h.
History	6 s.h.
Fine Arts Appreciation	3 s.h.
International & Multicultural Understanding	3 s.h.
Social Problems	3 s.h.
Microeconomics	3 s.h.

Many of the courses listed above also fulfill Drake Curriculum requirements. For specific Drake Curriculum (general education) information, students should access the Drake Curriculum website at <http://www.educ.drake.edu/dc> or contact the Office of Admission, 1-800-44-DRAKE, ext. 3181. It is recommended that students planning for transfer to Drake save NIACC course syllabi for in-depth review for Drake Curriculum outcomes fulfillment upon transfer.

## Exercise Science

### Iowa State University

This program prepares students for careers in fitness and wellness fields. Graduates are hired as exercise specialists in corporations, private health clubs, hospitals (cardiac rehabilitation) and other agencies which provide fitness/wellness activities. The program is administered through the Department of Health and Human Performance. See course recommendations listed under Physical Education-Exercise Science.

## Graphic Arts

### Grand View College

Completion of the A.A. Degree at NIACC will meet most general education requirements; the following courses are recommended as electives or general education within one's A.A. Studies:

Encounters in Humanities	2 s.h.
Essentials of Art	3 s.h.
Art in the Elementary School	3 s.h.
Art History I/II	6 s.h.
Drawing	3 s.h.
Ceramics	3 s.h.
Graphic Design	3 s.h.
Painting I/II	6 s.h.
Digital Illustration	3 s.h.

## Home Economics

### University of Northern Iowa

#### INTERIOR DESIGN

Intro to Computers and Information Systems	3 s.h.
Macroeconomics	3 s.h.
Microeconomics	3 s.h.
Accounting Principles I	3 s.h.

#### TEXTILES AND APPAREL

Macroeconomics	3 s.h.
Microeconomics	3 s.h.
Accounting Principles I	3 s.h.
Marketing - Elective	3 s.h.
Intro to Computers and Information Systems	3 s.h.

### Iowa State University

#### FAMILY AND CONSUMER SCIENCES EDUCATION

The following courses, taken at North Iowa Area Community College, will meet requirements for the first two years at Iowa State University for family and consumer sciences education. Other specific programs in the College of Family and Consumer Sciences may be worked out with a counselor at North Iowa Area Community College.

Communication Skills I and II	8 s.h.
Western Civilization I and II	8 s.h.
Psychology	3 s.h.
Human Growth and Development	3 s.h.
Sociology	3 s.h.

Economics	3 s.h.
Inorganic Chemistry	10 s.h.
Organic Chemistry (add for certification)*	4 s.h.
Biological Principles	4 s.h.
Introduction to Education	3 s.h.
Essentials of Art	3 s.h.
Physical Education	2 s.h.
Nutrition	3 s.h.
American History	3 s.h.
American Government	3 s.h.
Educational Psychology	3 s.h.

Iowa State University and North Iowa Area Community College have a number of planned transfer agreements in the area of home economics. For more information, contact a NIACC counselor.

## Human Services

### Buena Vista University

Complete courses to satisfy A.A. degree requirements at North Iowa Area Community College.

A second major or minor is required for this degree. The following courses will apply to a business minor.

Accounting Principles I	3 s.h.
Business Law I	3 s.h.
Principles of Management	3 s.h.
Marketing	3 s.h.
Quantitative Methods	3 s.h.
Macroeconomics	3 s.h.

### Grand View College

Completion of the A.A. Degree at NIACC will meet most general education requirements; the following courses are recommended as electives or general education within one's A.A. Studies:

General Psychology	3 s.h.
Sociology	3 s.h.
Social Problems	3 s.h.
Human Growth and Development	3 s.h.
Introduction to Human Services	3 s.h.

### Upper Iowa University

#### RESIDENTIAL CAMPUS

Students should consider taking the following courses to meet requirements in the following majors. Completion of the A.A. degree at NIACC will meet the general education requirements.

General Psychology OR Sociology	3 s.h.
Marriage and Family	3 s.h.
Intro to Human Services	3 s.h.
State and Local Government	3 s.h.
Macroeconomics	3 s.h.
Human Growth and Development	3 s.h.

## Industrial Technology

### *University of Northern Iowa*

NIACC's Electromechanical Systems Technology (page 107) and Mechanical Design Technology (page 117) are articulated with the University of Northern Iowa's Department of Industrial Technology. The programs, with appropriate option, meet requirements for a bachelor of science degree in Electromechanical Systems, General Industry and Technology, or Manufacturing Technology at UNI.

These articulated programs allow the student to complete an associate in applied science degree in Electromechanical Systems Technology or Mechanical Design Technology while maintaining the option of transferring to the University of Northern Iowa after completing the NIACC program.

While enrolled in the Electromechanical Systems Technology or Mechanical Design Technology Programs, the following course options may be taken to maximize transfereffectiveness.

### **ELECTROMECHANICAL SYSTEMS TECHNOLOGY**

UNI - Electro-Mechanical Systems Major

1. Industrial Supervision and Management Option
2. Engineering Technology Option

96:132 Electrical Concepts  
 91:175 DC/AC Theory  
 91:104 Intro to Tech Computing & CAD  
 91:179 Electronic Devices & Circuits I  
 91:214 Digital Electronics  
 91:105 Motors, Controls, & Industrial Wiring  
 91:110 Electronics Tech Internship  
 91:281 Microprocessors  
 91:204 Advanced Control Systems  
 91:206 Computer Automated Manufacturing  
 91:207 Industrial Instrumentation  
 92:227 Automated Manufacturing Processes  
 89:150 Employment Strategies  
 80:101 General Psychology  
 70:140 Introductory Chemistry (ISU or UNI)  
 70:280 General Physics I  
 70:281 General Physics II (UNI only)  
 40:140 Intro to Statistics  
 40:151 College Alg & Trig I  
 40:152 College Alg & Trig II  
 40:240 Calculus for Business  
 30:101 Comm Skills I  
 30:102 Comm Skills II

### **MECHANICAL DESIGN TECHNOLOGY**

UNI -1. Technology Management Major  
 2. Manufacturing Technology Major

90:121 Intro to Drafting  
 90:122 Drafting  
 90:131 Drafting II  
 90:133 Computer Orientation  
 90:231 Machine Element Design  
 91:120 Manufacturing Processes I  
 91:121 Manufacturing Processes II  
 91:150 Statics  
 91:212 Design Research Laboratory  
 91:226 Fundamentals of Unigraphics  
 91:227 Fundamentals of ProEngineering  
 91:240 Fluid Mechanics  
 91:251 Strength of Materials  
 89:150 Employment Strategies  
 80:101 General Psychology  
 70:122 Principles of Physics  
 70:140 Introductory Chemistry  
 70:280 General Physics I  
 70:281 General Physics II  
 40:140 Intro to Statistics  
 40:151 College Alg & Trig I  
 40:152 College Alg & Trig II  
 40:240 Calculus For Business  
 30:101 Comm Skills I  
 30:102 Comm Skills II

See your counselor or program instructor for details concerning these options.

Other courses which may be taken at NI ACC to meet specific University of Northern Iowa Industrial Technology major requirements:

**CONSTRUCTION MANAGEMENT MAJOR**  
(Bachelor of Science)

Accounting Principles I	3 s.h.
Intro to Computers and Information Systems	3 s.h.
General Physics I	4 s.h.
General Chemistry	4 s.h.
Quantitative Methods	3 s.h.
Analytic Geometry and Calculus I	4 s.h.
Intro to Statistics	3 s.h.

**ELECTRO-MECHANICAL SYSTEMS MAJOR**  
(Bachelor of Science)

**INDUSTRIAL SUPERVISION AND MANAGEMENT OPTION**

General Physics I and II	
OR	
College Physics I and II	8-10 s.h.
Accounting Principles I	3 s.h.

**ENGINEERING TECHNOLOGY OPTION**

Analytic Geometry/Calculus I and II	8 s.h.
General Physics I and II	
OR	
College Physics I and II	8-10 s.h.

**TECHNOLOGY MANAGEMENT**  
(Bachelor of Arts)

Precalculus	4 s.h.
OR	
Introduction to Statistics	3 s.h.
Principles of Physics I	4 s.h.

**MANUFACTURING TECHNOLOGY MAJOR**  
(Bachelor of Science)

Analytic Geometry and Calculus I	4 s.h.
General Physics I AND	
College Physics I	8-10 s.h.
Introduction to Statistics	3 s.h.

**TECHNOLOGY EDUCATION MAJOR - TEACHING**  
(Bachelor of Arts)

General Physics I	4 s.h.
Introduction to Statistics	3 s.h.
Introduction to Teaching	3 s.h.
Human Growth and Development	3 s.h.
Educational Psychology	3 s.h.
Ed Measurement & Evaluation	2 s.h.
Mainstreaming the Exceptional Student	2 s.h.

## Information Systems Technology/MIS

### Buena Vista University

IST Major Courses	40-44 s.h.
Communication Skills I, II	8 s.h.
Accounting Principles I, II	6 s.h.
Principles of Management	3 s.h.
Business Law I	3 s.h.
Quantitative Methods	3 s.h.
OR Analytic Geometry and Calculus I	4 s.h.
Marketing	3 s.h.
Business Statistics	3 s.h.
MIS I	3 s.h.
Macroeconomics	3 s.h.
Microeconomics	3 s.h.

### Drake University

**INFORMATION SYSTEMS**

Microeconomics	3 s.h.
Macroeconomics	3 s.h.
Accounting Principles I	3 s.h.
Accounting Principles II	3 s.h.
Business Law I	3 s.h.
Calculus for Business*	3 s.h.
Business Statistics	3 s.h.

\* Analytic Geometry & Calculus I may be taken in stead of Calculus for Business.

In addition, students may take the following courses in the major area at NIACC:

Computer Applications or	
Intro to Computers	3 s.h.
Management Information Systems I	3 s.h.

For specific Drake Curriculum (general education) information, students should access the Drake Curriculum website at <http://www.educ.drake.edu/dc> or contact the Office of Admission, 1-800-44-DRAKE x3181. It is recommended that students planning for transfer to Drake save NIACC course syllabi for in-depth review for Drake Curriculum outcomes fulfillment upon transfer.

### Iowa State University

IST Major Courses	40-44 s.h.
Communication Skills I and II	8 s.h.
Accounting Principles I and II	6 s.h.
Microeconomics	3 s.h.
Macroeconomics	3 s.h.
Quantitative Methods	3 s.h.

### University of Northern Iowa

IST Major Courses	40-44 s.h.
Communication Skills I, II	8 s.h.
Western Civ I or II	4 s.h.
Encounters in Humanities	2 s.h.
Intro to Statistics	3 s.h.
Social Science elective (see advisor)	3 s.h.
Quantitative Methods	3 s.h.

Macroeconomics . . . . .	3 s.h.
Accounting Principles I or II, Business Statistics, or Microeconomics . . . . .	3 s.h.
Physical Education . . . . .	2 s.h.

### Upper Iowa University

IST Major Courses . . . . .	40-44 s.h.
Communication Skills I, II . . . . .	8 s.h.
Ethics . . . . .	3 s.h.
Macroeconomics . . . . .	3 s.h.
Microeconomics . . . . .	3 s.h.
MIS I . . . . .	3 s.h.
Introduction to Statistics . . . . .	3 s.h.

\*Discussions are currently under way to articulate the IST program with other colleges and universities in Iowa and Minnesota. Contact an advisor or counselor for updated information on IST program articulation.

## Journalism

### Drake University

JOURNALISM AND MASS COMMUNICATION Advertising (Management or Creative Track), Public Relations, Electronic Media (Broadcast News, Radio-Television), News-Internet, Magazines.

A student wishing to enter the School of Journalism and Mass Communication at Drake University must have a cumulative GPA of 2.25. Courses which may be taken at NIACC are listed below:

Communication Skills I . . . . .	4 s.h.
Communication Skills - Speaking . . . . .	2 s.h.
History . . . . .	6 s.h.
Fine Arts Appreciation . . . . .	3 s.h.
Life and Physical Sciences (must include lab) . . . . .	8 s.h.
Mathematics . . . . .	3 - 4 s.h.
Values and Ethics . . . . .	3 s.h.
International/Multicultural Awareness . . . . .	3 s.h.
Introduction to Journalism . . . . .	3 s.h.
News Writing and Reporting . . . . .	3 s.h.
Principles of Advertising (advertising majors) . . . . .	3 s.h.

Many of the courses listed above also fulfill Drake Curriculum requirements. For specific Drake Curriculum (general education) information, students should access the Drake Curriculum website at <http://www.educ.drake.edu/dc> or contact the Office of Admission, 1-800-44-DRAKE, ext. 3181. It is recommended that students planning for transfer to Drake save NIACC course syllabi for in-depth review for Drake Curriculum outcomes fulfillment upon transfer.

### Iowa State University

All majors in general journalism and science journalism must meet the requirements of the College of Liberal Arts and Sciences. In addition, Principles of Advertising (3 s.h.), Introduction to Photography (3 s.h.), Creative Writing (3 s.h.), Introduction to Journalism (3 s.h.), and News writing and Reporting (3 s.h.) should be considered.

### Simpson College

Courses that may be taken at North Iowa Area Community College to complete major requirements:  
 Communication Skills I & II . . . . . 8 s.h.  
 News writing and Reporting . . . . . 3 s.h.

### University of Iowa

All majors in the School of Journalism and Mass Communication at the University of Iowa must meet the general education requirements of the College of Liberal Arts at that institution (see curriculum under Liberal Arts). The following courses are recommended for an associate in arts degree:

Principles of Economics . . . . .	6 s.h.
Psychology . . . . .	3 s.h.
Foreign Language (fourth level) . . . . .	0-16 s.h.
Government . . . . .	3 s.h.
Sociology . . . . .	3 s.h.
Introduction to Journalism . . . . .	3 s.h.
News writing and Reporting . . . . .	3 s.h.

Admission to the major is competitive. Applicants must have taken or be taking two prerequisite foundation courses, the rhetoric courses, and have completed a minimum of 45 s.h. Contact the School of Journalism for application and deadline information.

## Law

### Drake University

Applicants to accredited colleges of law must have earned a baccalaureate degree. Drakes offers a pre-law program of study which is adaptable to the requirements of any designated major, as well as an interdisciplinary major in Law, Politics & Society.

Students may want to include the following courses in their NIACC program of study:

Communication Skills I & II . . . . .	8 s.h.
Speech . . . . .	2 s.h.
History . . . . .	6 s.h.
College Algebra & Trigonometry I OR Analytic Geometry and Calculus I . . . . .	4 s.h.
Foreign Language . . . . .	0-16 s.h.
International/Multicultural Awareness . . . . .	3 s.h.
Fine Arts . . . . .	3 s.h.
Principles of Economics . . . . .	6 s.h.
Ethics . . . . .	3 s.h.
American Government . . . . .	3 s.h.
Sociology . . . . .	3 s.h.
Psychology . . . . .	3 s.h.
Physical Sciences (must include lab) . . . . .	8 s.h.

Many of the courses held above also fulfill Drake Curriculum requirements. For specific Drake Curriculum (general education) requirements, prospective students should access the Drake Curriculum website at [www.educ.drake.edu/dc](http://www.educ.drake.edu/dc) or contact the Office of Admission, 1-800-44-DRAKE, ext. 3181. It is recommended that students planning for transfer to Drake save NIACC course syllabi for in-depth review for Drake Curriculum outcomes fulfillment upon transfer.

### University of Iowa

An applicant for admission to the College of Law at the University of Iowa must have completed a baccalaureate degree prior to admission. The baccalaureate degree may be received in any major. Recommended courses which the student may take at North Iowa Area Community College toward this degree are:

Communication Skills I & II	8 s.h.
Western Civilization	8 s.h.
Foreign Language (fourth level)	0-16 s.h.
Sociology and Social Problems	6 s.h.
World Literature	6 s.h.
Mathematics	3-5 s.h.
Science	4-5 s.h.
Accounting	6 s.h.
Psychology	6 s.h.
Economics	6 s.h.
American Government	6 s.h.

Complete additional courses to satisfy A.A. degree requirements at North Iowa Area Community College.

### Liberal Arts/Undecided

Associate in Arts-- purpose of the degree includes:

1. Provide a degree goal for students who choose to follow a course of study which is specifically designed for transfer to a baccalaureate degree program.
2. Provide the essential general education, grade, and semester hour requirements for upper division status at most senior colleges and universities.

Requirements for the degree follow:

1. Completion of sixty (60) semester hours of work consisting of courses in which the principal design is for a baccalaureate program.
2. One half of the required semester hours must be completed in residence at North Iowa Area Community College including 15 of the last 30 semester hours.
3. A minimum cumulative grade point average of 2.00 (C). Includes transfer work from other institutions.
4. Completion of the following general education core with a minimum of 40 semester hours.
  - a. Communications . . . . . 8 s.h.

This requirement can be satisfied by baccalaureate-oriented communications or speech courses with a minimum of two courses in English composition.

- b. Social Sciences . . . . . 8 s.h.
- c. Humanities . . . . . 8 s.h.
- d. Natural Sciences . . . . . 8 s.h.  
Must include one math and one science course
- e. Distributed Requirement . . . . . 8 s.h.  
To be taken from among the four divisions above.

### Marketing

#### Simpson College

Courses that may be taken at North Iowa Area Community College to complete major requirements:

Microeconomics	3 s.h.
Business Statistics	3 s.h.
Accounting Principles I and II	6 s.h.
Intro to Business or	
Principles of Management	3 s.h.
Business Law I	3 s.h.
Marketing	3 s.h.

### Medical Technology (Clinical Lab Science)

To qualify for training at a school for medical technologists approved by the American Medical Association, a student must have at least three years of college work which includes the successful completion of at least 94 semester hours of work. Courses for Medical Technology (Clinical Lab Science) which may be obtained at North Iowa Area Community College are listed below:

Communication Skills I & II	8 s.h.
Chemistry Principles	10 s.h.
Organic Chemistry	8 s.h.
Quantitative Analysis	4 s.h.
Biology I & II	8 s.h.
Microbiology	4 s.h.
Anatomy and Physiology	8 s.h.
College Mathematics (including Statistics) and Algebra and Trigonometry II or Pre Calc.	7 s.h.
Foreign Language	8 s.h.
Principles of Physics (recommended)	4 s.h.
Social Science Electives	8 s.h.

Electives, as for any professional career, should include broad general education in English, social sciences, arts, and humanities. Advanced mathematics and typing will also be helpful.

Students wishing to qualify for the bachelor's degree will need to meet the core or general education requirements of the college or university to which they plan to transfer and should, therefore, consult with the counselors at North Iowa Area Community College to determine these additional requirements.

Those interested in attending the University of Iowa should see a North Iowa Area Community College counselor for specific information.

## Mortuary Science

Any person desiring to enter the funeral directing profession shall be required to appear before a member of the Board of Mortuary Science Examiners for a personal interview and registration, prior to entering a College of Mortuary Science, approved by the Iowa State Board of Mortuary Science Examiners.

Recommended courses:

- Communications. Eight semester hours shall consist of English, Speech, or Writing Communications.
- Natural Sciences. Nine semester hours shall consist of Chemistry, Biology I and II, Anatomy and Physiology, Histology, and Microbiology.
- Social Sciences. Nine semester hours shall consist of Psychology or Sociology.
- Business/Economics. Nine semester hours shall consist of Business Management, Accounting, Business Law, Computer Sciences, or Economics.
- Philosophy/Humanities. Nine semester hours shall consist of Philosophy, Religion, Art, or Music.
- Electives. Nineteen semester hours shall consist of student's choice.

For more information contact: Board of Mortuary Science, Iowa Department of Public Health, 321 East 12th Street, Lucas State Office Building, Des Moines, IA 50319-0075.

## Music

The following courses may be taken at North Iowa Area Community College to meet the requirements for a degree in music or music education:

Literature	6 s.h.
Foreign Language	0-8 s.h.
Communication Skills I and II	8 s.h.
Theory of Music I, II, III, and IV	16 s.h.
Applied Music	4-8 s.h.
Choir and/or Band	4-8 s.h.
Western Civilization	8 s.h.
Math/Science	8 s.h.
American Government	3 s.h.
Sociology	3 s.h.
Human Growth and Development	3 s.h.
Introduction to Teaching	3 s.h.

Students planning to major in music should consult with counselors and personnel in the Department of Music in preparing schedules of classes. The student should also correspond with the head of the Department of Music of the college to which he/she will transfer to obtain a verification of his/her complete program at North Iowa Area Community College.

## Simpson College

Courses which may be taken at NIACC to complete major requirements at Simpson College:

Exploring Music	3 s.h.
Music Theory I	4 s.h.
Music Theory II	4 s.h.
Music Theory III	4 s.h.
Music Theory IV	4 s.h.
Applied Music Piano	1-2 s.h.
Applied Music Voice	1-2 s.h.
Applied Music Instrumental	1-2 s.h.
Concert Chorus	1-4 s.h.
Band	1-4 s.h.
Jazz Band	1-4 s.h.

## Nursing

### Grand View College

Completion of the A.A. Degree at NIACC will meet most general education requirements; the following course are recommended as electives or general education within one's A.A. Studies:

General Psychology	3 s.h.
Sociology	3 s.h.
Human Growth & Development	3 s.h.
Biology I	4 s.h.
Microbiology	4 s.h.
Nutrition	3 s.h.
Introduction to Statistics	3 s.h.
College Algebra and Trigonometry I	4 s.h.
Fundamentals of Organic Chemistry	3 s.h.
Anatomy and Physiology I and II	8 s.h.

### University of Iowa

BACHELOR OF SCIENCE IN NURSING (BSN) DEGREE  
(at Iowa City)

A cooperative, articulated curriculum with the University of Iowa College of Nursing. The baccalaureate degree nursing student should take the following courses at NIACC:

Communication Skills I and II	8 s.h.
Principles of Physics or Physical Science*	4 s.h.
Introductory Chemistry or Gen. Chem. Prin*	4 s.h.
Biological Principles	4 s.h.
Psychology	3 s.h.
Anatomy and Physiology I and II	8 s.h.
Microbiology	4 s.h.
Humanities, Fine Arts, Philosophy**	6 s.h.
Western Civilization	4 s.h.
Intro to Statistics**	3 s.h.
Human Growth and Development	3 s.h.
Cultural Anthropology or Cultural Diversity**	3 s.h.
Foreign Language*	0-8 s.h.

\*Math, physics, chemistry, and foreign language requirement depend on high school preparation.

\*\*Some course work may be completed after matriculation at the University of Iowa if student is unable to complete as pre-nursing.

A minimum GPA of 2.50 is required to apply for admission. Admission deadlines are January 15 for summer (R.N. program only), March 1 for fall, and October 1 for spring. Admission is competitive.

#### BACHELOR OF SCIENCE IN NURSING (BSN) DEGREE RN TO BSN PROGRESSION PROGRAM (at NIACC)

The University of Iowa College of Nursing offers its RN-BSN Progression Program at the NIACC campus. Course work can be completed locally. This program is designed for diploma and associate degree registered nurses who desire a BSN Degree.

The associate degree nurse is assumed to have competence in microbiology, anatomy, physiology, nutrition, introductory psychology and sociology, life-span human development and behavior, communication skills, and computer skills, as well as basic nursing competence, all required as part of the Associate Degree Nursing curriculum at NIACC. Prospective students can be assured that they have earned at least half of the 128 semester hours required for the BSN upon graduation from the NIACC ADN Program.

Most students may enroll in supporting and general education courses at NIACC and are strongly encouraged to seek early advising with the RN-BSN Faculty Coordinator. For further information contact the RN-BSN Program office in Iowa City at 1-800-553-4692, ext. 7020, or the RN-BSN Faculty Coordinator located on the NIACC campus at 1-888-466-4222, ext. 4338, or go to [www.nursing.uiowa.edu](http://www.nursing.uiowa.edu) for the College of Nursing website. Choose Academic Programs and Degree Options for information regarding the RN to BSN program.

## Occupational Therapy

### St. Ambrose University

The following courses may be taken at NIACC. Full-time students will take these courses over a three-semester period, after which they will need to transfer to St. Ambrose.

Biological Principles and Lab	4 s.h.
Introductory Chemistry	
OR	
Principles of Physics and Lab	4 s.h.
College Algebra and Trigonometry	
or higher	4 s.h.
Communication Skills I OR	4 s.h.
Public Speaking	2 s.h.
General Psychology	3 s.h.
Human Growth and Development	3 s.h.
Abnormal Psychology	3 s.h.
Literature	3 s.h.
Philosophy	3 s.h.
Art, Music, Theater	6 s.h.

American History	3 s.h.
Medical Terminology	1 s.h.
Anatomy and Physiology	8 s.h.
Intro to Sociology	3 s.h.
Intro to Computer/Information Systems	3 s.h.

1. Students must achieve and maintain a minimum 2.8 GPA.
2. Students should apply for admission to St. Ambrose as soon as they begin their third semester at NIACC.
3. As soon as students are enrolled at St. Ambrose, they should apply for Occupational Therapy.
4. Students must be able to document experience in an occupational therapy setting of at least 50 clock hours.
5. There is no guarantee regarding admission.

## Optometry

The following courses are recommended for a student interested in optometry:

Communication Skills I and II	8 s.h.
Biology I and II	8 s.h.
Physics	8 s.h.
Inorganic Chemistry	10 s.h.
Psychology	3 s.h.
Humanities Electives	6 s.h.
Social Science Elective	3 s.h.
Organic Chemistry	4-10 s.h.
Microbiology	4 s.h.
Anatomy and Physiology I and II	8 s.h.
Analytic Geometry and Calculus I	4 s.h.

Plus electives to total 60 s.h.

There are additional requirements which vary with each optometry school or college.

## Pharmacy

### Drake University

#### DOCTOR OF PHARMACY

Applications for admission to the B.S. in Pharmaceutical Sciences (non-licensure) program will be reviewed on a rolling admission basis. All applicants for admission into the Drake Doctor of Pharmacy degree program are required to submit the Pharmacy Supplement Application Form (PSAF) in addition to the regular application for admission.

Applicants for admission into the pre-professional pharmacy program are required to have a 2.75 minimum cumulative GPA on a 4.0 scale for all course work completed, and will be considered for admission on a rolling basis for the fall term. Due to the sequence of courses in the pharmacy curriculum, transfer students will be considered for admission into the pre-professional program for the spring term on an individual basis.

Applicants for admission into the professional Pharm.D. program are required to have a 2.75 minimum cumulative GPA on a 4.0 scale for all course work completed and an official PCAT test score. They should have completed at least 60 semester hours of course work, including the designated (\*) courses below or their equivalent at other institutions, by the beginning of the term they want to enroll in the program. Professional Pharm.D. program applicants must sit for the PCAT no later than January of the year they apply for admission. Interviews for admission to the professional Pharm. D. Program generally begin in the fall of the year prior to desired term of admission; notification of admission begins January 1 and continues until all seats have been filled. Applications submitted after March 1 will be considered on a space-available basis only. Admission to the professional Pharm.D. program in the spring term is not available. Please contact a Drake admission counselor for more detailed information.

The Drake College of Pharmacy and Health Sciences suggests the following curriculum at NIACC.

Communication Skills I	4 s.h.
Speech	2 s.h.
*Chemistry Principles I & II	10 s.h.
*Organic Chemistry I & II	10 s.h.
*Biological Principles I & II	8 s.h.
*Microbiology	4 s.h.
*Analytic Geometry and Calculus I	4 s.h.
*Intro to Statistics	3 s.h.
*Intro to Computers and Information Systems	3 s.h.

\*Required for entry into the professional program.

For specific Drake Curriculum (general education) requirements, students should access the Drake Curriculum website at <http://www.educ.drake.edu/dc> or contact the Office of Admission, 1-800-44-DRAKE, ext. 3181. It is recommended that students planning for transfer to Drake save NIACC course syllabi for in-depth review for Drake Curriculum outcomes fulfillment upon transfer.

### University of Iowa

A student may attend North Iowa Area Community College for two years of pre-pharmacy.

Courses which should be taken at North Iowa Area Community College are:

Biology I and II	8 s.h.
Communication Skills I and II	8 s.h.
Chemistry Principles I and II	10 s.h.
Analytic Geometry and Calculus I	4 s.h.
*Principles of Physics	4 s.h.
Organic Chemistry I & II	10 s.h.
Anatomy & Physiology I & II	8 s.h.
Microbiology	4 s.h.
Microeconomics	3 s.h.
Intro to Statistics	3 s.h.
**General Education Electives	12 s.h.

\*Physics required for students who haven't taken a full year during high school.

\*\*A minimum of 15 s.h. of general education electives required for admission. Total of 20 s.h. required for graduation. Recommended electives include Computer Science and an Ethics course.

## Physical Education

The following courses may be taken at North Iowa Area Community College to meet the requirements for a degree in physical education:

Communication Skills I and II	8 s.h.
Games and Officiating I and II	4 s.h.
Introduction to Physical Education	2 s.h.
Anatomy and Physiology I and II	8 s.h.
First Aid and Personal Safety	1 s.h.
Introduction to Teaching	3 s.h.
Human Growth and Development	3 s.h.
Psychology	3 s.h.
American History or American Government	3 s.h.
Care and Prevention of Athletic Injuries	2 s.h.
Educational Media Techniques	3 s.h.
Health and Nutrition	3 s.h.
Humanities Electives	8 s.h.
Educational Psychology	3 s.h.

Students planning to major in physical education should consult with counselors and personnel in the Department of Physical Education in preparing schedules of classes. The student should also correspond with the head of the Department of Physical Education of the college to which he/she will transfer to obtain a verification of his/her complete program at North Iowa Area Community College.

### Iowa State University

The following courses at NIACC will meet the requirements for Exercise and Sport Science programs at Iowa State University administered by the Department of Health and Human Performance. Please see a NIACC counselor for clarification or call an academic advisor at Iowa State University: 515-294-2029.

#### GENERALEDUCATION

Anatomy and Physiology	4 s.h.
Intro to Computers and Information Systems (non-teacher ed only)	3 s.h.
Quant. Methods	3 s.h.
General Psychology	3 s.h.
Sociology	3 s.h.
Communication Skills I	4 s.h.
Communication Skills II	4 s.h.

#### TEACHERLICENSURE

Intro to Teaching	3 s.h.
First Aid and Personal Safety	1 s.h.
Human Growth & Development	3 s.h.
Nutrition	3 s.h.
Educational Psychology	3 s.h.

#### EXERCISESCIENCE

Principles of Physics OR Gen. Physics I	4 s.h.
General Chemistry I	4 s.h.

General Chemistry I Lab	1 s.h.
Nutrition	3 s.h.

**ATHLETIC TRAINING**

Principles of Physics OR General Physics I	4 s.h.
General Chemistry I	4 s.h.
General Chemistry I Lab	1 s.h.
Nutrition	3 s.h.

**SPORTSMANAGEMENT**

Accounting Principles I	3 s.h.
Microeconomics	3 s.h.
Macroeconomics	3 s.h.

**Simpson College**

Courses which may be taken at NIACC to meet major requirements at Simpson College:

Intro to Physical Education	2 s.h.
Care & Prevention of Athletic Injuries	2 s.h.
First Aid and Personal Safety	1 s.h.
Kinesiology	3 s.h.
Games and Officiating I and II	6 s.h.
Biology I OR Human Biology OR	
Anatomy and Physiology	8 s.h.

**Upper Iowa University****RESIDENTIAL CAMPUS**

Students should consider taking the following courses to meet requirements in the following majors. Completion of the A.A. degree at NIACC will meet the general education requirements.

**FITNESS MAJOR**

Anatomy and Physiology I	4 s.h.
Kinesiology	3 s.h.
Physical Fitness I	1 s.h.
Physical Fitness Lab	1 s.h.
Principals of Management	3 s.h.
Nutrition	3 s.h.

**SPORTS SCIENCE MAJOR**

General Chemistry I	5 s.h.
General Chemistry II	5 s.h.
Nutrition	3 s.h.
Anatomy and Physiology I	4 s.h.
Kinesiology	3 s.h.
General Physics I	4 s.h.
Organic Chemistry I	5 s.h.
Intro to Statistics	3 s.h.

**ATHLETIC TRAINING**

Nutrition	3 s.h.
Anatomy & Physiology I	4 s.h.
Kinesiology	3 s.h.
General Psychology	3 s.h.

**Physical Science****Grand View College**

Completion of the A.A. Degree at NIACC will meet most general education requirements; the following courses are recommended as electives or general education within one's A.A. Studies:

Biology I/II	8 s.h.
Chemistry Principles I/II	10 s.h.
Organic Chemistry I/II	8 s.h.
Quantitative Analysis	4 s.h.
General Physics I/II or	
College Physics I/II	8-10 s.h.
Computer Applications	3 s.h.
Differential Equations	3 s.h.
Engineering Problems or	
Engineering Graphics	3 s.h.

**Physical Therapy****University of Iowa**

Physical Therapy programs are highly selective. The University of Iowa program is a masters degree and first requires completion of a bachelor's degree. Include the following North Iowa Area Community College courses:

Communication Skills I and II	8 s.h.
Biology I and II	8 s.h.
Chemistry	10 s.h.
Physics	8 s.h.
Psychology	3 s.h.
Algebra and Trigonometry II	4 s.h.
Foreign Language	0-16 s.h.
Anatomy and Physiology I and II	8 s.h.
Intro to Statistics	3 s.h.

General education courses to complete the associate in arts degree. Work experience in a physical therapy setting is very important as an admissions criterion.

**Physician****University of Iowa**

Prior to entrance into medical school, each applicant must:

1. have received the baccalaureate degree; or
2. have completed three years (94 s.h.) of a combined baccalaureate-medicine curriculum which qualifies him/her to receive the baccalaureate degree on completion of the first year in medicine; or
3. have completed three years (94 s.h.) of a baccalaureate program meeting all of the general graduation requirements of the college he/she is attending.

The completion of a four-year baccalaureate degree in a liberal arts college is strongly recommended, and students having a bachelor's degree will be given preference. However, a student may apply for admission to

the College of Medicine upon the completion of 94 semester hours of work in a college of liberal arts with an overall grade point average of 2.5. Approximately two-thirds of these hours may be met by taking the courses listed below at North Iowa Area Community College. The Medical College Admissions Test (MCAT) will need to be taken.

Communication Skills I and II	8 s.h.
Chemistry Principles I & II	10 s.h.
Organic Chemistry	10 s.h.
Precalculus	4 s.h.
Physics	8 s.h.
Foreign Language	0-16 s.h.
Biology I and II	8 s.h.

General education to complete associate in arts degree.

## Physician Assistant

### University of Iowa

Communication Skills I and II	8 s.h.
Chemistry Principles I and II	10 s.h.
Organic Chemistry	10 s.h.
Biology I and II	8 s.h.
Precalculus	4 s.h.
Physics	8 s.h.
Foreign Language	0-16 s.h.
Foreign Civilization & Culture	3 s.h.
Introduction to Statistics	3 s.h.

General education electives to complete associate in arts degree.

In the selection process of physician assistant candidates, work experience in a health care setting is very important as an admissions criterion.

This is a graduate program at Iowa and is highly competitive. See your counselor for more information.

## Political Science

### Buena Vista University

Courses which may be taken at North Iowa Area Community College to meet specific major requirements at Buena Vista University:

Intro to American Government	3 s.h.
American State and Local Government	3 s.h.
Social Problems	3 s.h.

Complete additional courses to satisfy A.A. degree requirements at North Iowa Area Community College. A second major or minor is required for this degree.

### Simpson College

Courses that may be taken at North Iowa Area Community College to complete major requirements:

Intro to American Government	3 s.h.
American State and Local Government	3 s.h.
International Relations	3 s.h.

## Psychology

Intermediate Algebra	4 s.h.
General Psychology	3 s.h.
Child Psychology	3 s.h.

Students should correspond with the college or university of their choice to determine if that college requires science and/or foreign language.

### Buena Vista University

Courses which may be taken at North Iowa Area Community College to meet specific major requirements at Buena Vista University:

General Psychology	3 s.h.
Child Psychology (as an elective)	3 s.h.
Intermediate Algebra	4 s.h.

Complete additional courses to satisfy A.A. degree requirements at North Iowa Area Community College.

A second major or minor is required for this degree.

### Simpson College

Courses which may be taken at North Iowa Area Community College to meet major requirements at Simpson College:

Quantitative Methods OR	
Intermediate Algebra	3-4 s.h.
General Psychology	3 s.h.
Human Growth & Development	3 s.h.
Child Psychology (elective)	3 s.h.
Biological Principles I and Lab	4 s.h.
Communication Skills I and II	8 s.h.

Complete additional courses to satisfy A.A. degree.

### Upper Iowa University

#### RESIDENTIAL CAMPUS

Students should consider taking the following courses to meet requirements in the following majors. Completion of the A.A. degree at NIACC will meet the general education requirements.

General Psychology	3 s.h.
Intro to Human Services	3 s.h.
Child Psychology	3 s.h.
Human Growth and Development	3 s.h.
Intro to Statistics	3 s.h.

## Public Relations

This major has a wide variety of preparation possibilities and should be discussed with your counselor.

## Radiology

(Four-Year Degree)

The requirements may be met by selecting courses from the list outlined below. These courses are offered at North Iowa Area Community College.

Biology I and II . . . . .	8 s.h.
Anatomy and Physiology . . . . .	8 s.h.
Communication Skills I & II . . . . .	8 s.h.
Western Civilization . . . . .	8 s.h.
Algebra and Trigonometry I & II . . . . .	8 s.h.
Philosophy . . . . .	3 s.h.
General Physics . . . . .	8 s.h.
Chemistry . . . . .	8 s.h.
Social Science Electives . . . . .	6 s.h.

## Recreation

A recreation major may have several different areas of emphasis. The following courses should be taken at NIACC:

Communication Skills I and II . . . . .	8 s.h.
Games and Officiating I and II . . . . .	4 s.h.
Introduction to Physical Education . . . . .	2 s.h.
Psychology . . . . .	3 s.h.
Human Growth and Development . . . . .	3 s.h.
Essentials of Art . . . . .	3 s.h.
Introduction to Teaching . . . . .	3 s.h.
Health and Nutrition . . . . .	3 s.h.
First Aid and Personal Safety . . . . .	1 s.h.
Care and Prevention of Athletic Injuries . . . . .	2 s.h.
Educational Media Techniques . . . . .	3 s.h.

## Rehabilitation Services

### Drake University

The National Rehabilitation Institute is housed in the School of Education at Drake University. The program emphasizes administration, providing the knowledge and experiences necessary to function as a community rehabilitation agency manager. The program curriculum focuses on a blend of course work and field experiences. Designated as the Midwest Regional program, Federal grant tuition assistance is available to cover 46 hours of the rehabilitation core curriculum. To qualify, students must gain admission to Drake University and apply to the National Rehabilitation Institute. There is an interview process for the awarding of funds. Students should also plan to file for other types of financial aid.

Recommended courses for students planning for this major include the following NIACC course work:

Communication Skills I . . . . .	4 s.h.
Communication Skills - Speaking . . . . .	2 s.h.
History . . . . .	6 s.h.
Fine Arts Appreciation . . . . .	3 s.h.
Life and Physical Sciences (must include lab) . . . . .	8 s.h.
Mathematics . . . . .	3-4 s.h.

Values and Ethics . . . . .	3 s.h.
International/Multicultural Awareness . . . . .	3 s.h.
Social Sciences . . . . .	6 s.h.

Many of the courses listed above also fulfill Drake Curriculum requirements. For specific Drake Curriculum (general education) information, students should access the Drake Curriculum website at <http://www.educ.drake.edu/dc> or contact the Office of Admission, 1-800-44-DRAKE, ext. 3181. It is recommended that students planning for transfer to Drake save NIACC course syllabi for in-depth review for Drake Curriculum outcomes fulfillment upon transfer.

## Social Work

General education includes the following courses:

Communication Skills I and II . . . . .	8 s.h.
Sociology . . . . .	3 s.h.
Social Problems . . . . .	3 s.h.
Marriage and Family . . . . .	3 s.h.
Psychology . . . . .	3 s.h.
Natural Science Electives . . . . .	8 s.h.
Humanities Electives . . . . .	6 s.h.
Human Growth and Development . . . . .	3 s.h.
Macroeconomics . . . . .	3 s.h.
Public Speaking . . . . .	2 s.h.
American History . . . . .	6 s.h.

Students should correspond with the college or university of their choice to determine if that college requires science and/or foreign language. Students should also be certain their math background is sufficient for a statistical course.

### Wartburg College

Communication Skills I and II . . . . .	8 s.h.
General Psychology . . . . .	3 s.h.
Sociology . . . . .	3 s.h.
Macroeconomics or Microeconomics . . . . .	3 s.h.
Intro to American Government . . . . .	3 s.h.
Western Civilization . . . . .	4-8 s.h.
Biological Prin & Lab . . . . .	4 s.h.
Intermediate Algebra (or higher math) . . . . .	3-4 s.h.
Humanities . . . . .	3-6 s.h.

## Sport Management

### Iowa State University

This program prepares students for a variety of sport specialist positions in professional/college sports organizations, health and sport clubs, community recreation programs, business and nonprofit agencies such as YWCA/YMCA's. This program is administered through the Department of Health and Human Performance. (See course recommendations under Physical Education.)

## Theatre

Com mu ni ca tion Skills I and II . . . . .	8 s.h.
In tro duc tion to Thea tre, Tele vi sion, and Film . . . . .	3 s.h.
In tro duc tion to Act ing . . . . .	3 s.h.
Stagecraft . . . . .	3 s.h.
Public Speaking . . . . .	2 s.h.
In tro duc tion to Po etry and Drama . . . . .	3 s.h.
In tro duc tion to Short Story and Novel . . . . .	3 s.h.
World Lit er a ture I and II . . . . .	6 s.h.
Oral Interpretation of Literature . . . . .	3 s.h.

### **Simpson College**

Courses which may be taken at North Iowa Area Community College to complete major requirements at Simpson College:

Oral Interpretation of Literature . . . . .	3 s.h.
Intro to Thea tre/TV/Film . . . . .	3 s.h.
Stagecraft . . . . .	3 s.h.
Intro to Act ing . . . . .	3 s.h.

Also required for Theatre Arts with Education Program:

Public Speaking . . . . .	2 s.h.
Group Discussion . . . . .	2 s.h.
News writing & Re port ing . . . . .	3 s.h.

## Veterinary Medicine

### **Iowa State University**

(GPA is a com pet i tive fac tor for ad mis sion.)

Applicants for ad mis sion to the Col lege of Vet er i nary Medicine must have at tended a re gion ally ac cred ited college or uni ver sity, have com pleted 40 se mester cred its prior to the dead line for fil ing an ap pli ca tion for ad mis sion, and have com pleted 60 se mester cred its prior to the end of the spring term in which the ap pli cant seeks to be ad mit ted.

Credits earned must in clude the fol low ing:

Com mu ni ca tion Skills I and II* . . . . .	8 s.h.
Chem is try Prin ci ples I and II . . . . .	10 s.h.
Or ganic Chem is try I and II . . . . .	10 s.h.
Gen eral Phys ics I and II . . . . .	8 s.h.
Bi ol ogy I and II . . . . .	8 s.h.
Gen etics . . . . .	4 s.h.
Ana to my and Phys i ol ogy . . . . .	4 s.h.
Hu man ities and/or So cial Sci ences . . . . .	9 s.h.

\* Must take both courses for 4 se mes ter hour cred its to meet the Pub lic Speak ing re quire ment.

## Visual Arts

### **Grand View College**

Com ple tion of the A.A. De gree at NIACC will meet most gen eral ed u ca tion re quire ments; the fol low ing courses are re com mended as elec tives or gen eral ed u ca tion within one's A.A. Stud ies:

Art His tory I/II . . . . .	6 s.h.
Drawing . . . . .	3 s.h.
2-D De sign . . . . .	3 s.h.
En coun ters in Hu man ities . . . . .	2 s.h.
Es sen tials of Art . . . . .	3 s.h.
Cer amics . . . . .	3 s.h.
Graphic De sign . . . . .	3 s.h.
Paint ing I/II . . . . .	6 s.h.
Digital Il lu stration . . . . .	3 s.h.

## Online Associate Degree Courses Through NIACC

See the listing below and contact the Registrar at 1-888-466-4222, ext. 4205, or (641)422-4205.

<b>Degree Requirement</b>	<b>Semester Hours</b>
<b>Communications</b>	<b>8 s.h.</b>
<i>Communication Skills I (30:101)</i>	3 s.h.
<i>Communication Skills II (30:102)</i>	3 s.h.
<i>Public Speaking (85:101)</i>	2 s.h.
<b>Humanities</b>	<b>8 s.h.</b>
<i>Art History I (10:102)</i>	3 s.h.
<i>Art History II (10:103)</i>	3 s.h.
<i>American History to 1877 (80:140)</i>	3 s.h.
<i>American History 1877 to Present (80:141)</i>	3 s.h.
<b>Natural Sciences</b>	<b>8 s.h.</b>
<i>Math for Decision Making (40:121)</i>	3 s.h.
<i>Introduction to Statistics (40:140)</i>	3 s.h.
<i>Biological Principles (70:101)</i>	3 s.h.
<i>Introduction to Chemistry (70:140)</i>	4 s.h.
<b>Social Sciences</b>	<b>8 s.h.</b>
<i>General Psychology (80:101)*</i>	3 s.h.
<i>Macroeconomics (80:133)*</i>	3 s.h.
<i>Microeconomics (80:134)*</i>	3 s.h.
<i>Personal Finance (80:135)</i>	3 s.h.
<i>Geography of the Non-Western World (80:152)*</i>	3 s.h.
<i>Human Growth &amp; Development (80:230)*</i>	3 s.h.
<b>Distributed Requirement</b> Choose from courses above (under Communications, Humanities, Natural Sciences, and Social Sciences)	<b>8 s.h.</b>
<b>Electives</b>	<b>20 s.h.</b>
<i>Keyboarding Level I (15:112)*</i>	1 s.h.
<i>Keyboarding Level II (15:113)*</i>	1 s.h.
<i>Computer Literacy (15:114)</i>	1 s.h.
<i>Introduction to Computers and Information Systems (15:140)</i>	3 s.h.
<i>Accounting Principles I (15:150)</i>	3 s.h.
<i>Accounting Principles II (15:151)</i>	3 s.h.
<i>Introduction to Entrepreneurship (15:171)</i>	3 s.h.
<i>Introduction to E-Commerce (15:191)</i>	3 s.h.
<i>Visual Communication (15:201)</i>	3 s.h.

<i>Word Processing (15:211)</i>	<i>2 s.h.</i>
<i>Business Communication (15:212)</i>	<i>3 s.h.</i>
<i>Microsoft Access (15:225)</i>	<i>1 s.h.</i>
<i>Microsoft PowerPoint (15:226)</i>	<i>1 s.h.</i>
<i>Degree Requirement</i>	<i>Semester Hours</i>
<i>Microsoft Outlook (15:227)</i>	<i>1 s.h.</i>
<i>Human Relations (15:241)</i>	<i>3 s.h.</i>
<i>Medical Terminology I (15:251)</i>	<i>3 s.h.</i>
<i>Medical Terminology II (15:252)</i>	<i>3 s.h.</i>
<i>Employment Strategies (89:150)</i>	<i>1 s.h.</i>
<i>Career Decision Making (89:152)</i>	<i>2 s.h.</i>

\* Open enrollment courses. All others start and end on the regular semester dates.

## GENERAL EDUCATION AND COURSE CATEGORIES

North Iowa Area Community College considers education to be the foundation of a democratic society. At the core of the educational experience is general education, an ongoing endeavor that engages students in acquiring the knowledge and tools necessary to understand their environment and contribute to their communities. General education provides the diverse experiences in learning that teach generalized skills in communication, critical analysis, research, human relations, and technology and survey subject matter to allow for applications of this learning in the classroom and community.

In response to a renewed emphasis placed on general education by The High Learning Commission of the North Central Association regional accrediting body, the College, through its Institutional Effectiveness Committee, reexamined the courses in its general education distribution requirements. As a result of this study, the College has determined that its general education course work, taken as a whole, will aid the development of research, critical thinking, communication, global awareness, interpersonal, aesthetic, technological, and quantitative skills in its graduates. In order for a class to be included in the following distribution requirements, it must incorporate at least six of the eight general education skills identified by the Institutional Effectiveness Committee. *To measure the effectiveness of its general education program, NIACC will require all students to take the Academic Profile examination as a graduation requirement.*

Each of NIACC's degree programs provides varying levels of general education skill development through their distribution requirements:

\* To earn an **Associate in Arts** degree, a student must complete a minimum of 8 semester hours (s.h.) of credit in each of the communication, humanities, social science, and natural science distribution categories listed below plus an additional 8 s.h. of credit selected from any of the aforementioned categories for a total minimum of 40 s.h. of general education credit within the degree program. Within the natural science category, a student must select at least one mathematics and one science course.

\* To earn an **Associate in Science** degree, a student must complete a minimum general education core of 37 s.h. distributed in the following fashion: communications (8 s.h.); humanities and/or social science (9 s.h.); and natural science (20 s.h.). Within the natural science category, a student must select at least one mathematics and one science course.

\* To earn an **Associate in Science in Business** degree, a student must complete a minimum general education core of 20 s.h. distributed in the following fashion: communications (8 s.h.); humanities and/or social science (9 s.h.); and natural science (3 s.h.).

\* General education requirements for the **Associate in Applied Science** degree vary according to the major selected. Please consult with an advisor or a faculty member in the major field for further information.

Listed below are the general education course categories (communications, humanities, natural science, and social science), as well as those courses listed under the business and elective categories.

### COMMUNICATIONS

30:101	Communication Skills I	4 s.h.
30:101C	Communication Skills I	3 s.h.
30:102	Communication Skills II	4 s.h.
30:102C	Communication Skills II	3 s.h.
30:110	Oral Interpretation of Literature	3 s.h.
85:101	Public Speaking	2 s.h.
85:105	Group Discussion	2 s.h.

### HUMANITIES

10:100	Encounters in Humanities	2 s.h.
10:101	Essentials of Art	3 s.h.
10:102	Art History I	3 s.h.
10:103	Art History II	3 s.h.
10:112	Art in the Elementary School	3 s.h.
10:120	Drawing	3 s.h.
10:130	Ceramics	3 s.h.
10:150	Creative Photography	3 s.h.
10:151	Intermediate Creative Photography	3 s.h.
10:201	2-D Design	3 s.h.
10:202	Graphic Design	3 s.h.
10:220	Digital Illustration	3 s.h.
30:110	Oral Interpretation of Literature	3 s.h.
30:111	Introduction to Poetry/Drama	3 s.h.
30:112	Introduction to Short Story/Novel	3 s.h.
30:121	Introduction to Journalism	3 s.h.
30:122	News Writing and Reporting	3 s.h.
30:201	World Literature I	3 s.h.
30:202	World Literature II	3 s.h.
30:203	Minority Literature: African/American	3 s.h.
30:204	Minority Literature: American Indian	3 s.h.
30:210	Children's Literature	3 s.h.
35:110	Beginning Spanish I	4 s.h.
35:111	Beginning Spanish II	4 s.h.
35:211	Intermediate Spanish I	4 s.h.
35:212	Intermediate Spanish II	4 s.h.
35:260	Advanced Spanish I	1-3 s.h.
35:261	Advanced Spanish II	1-3 s.h.
50:113	Exploring Music	3 s.h.
50:121	Music Theory I	4 s.h.
50:122	Music Theory II	4 s.h.
50:123	Music Theory III	4 s.h.
50:124	Music Theory IV	4 s.h.

50:150	Concert Chorus	1 s.h.
50:151	Voice Ensemble (NIACC Singers)	1 s.h.
50:152	Concert Band	1 s.h.
50:153	Orchestra	1 s.h.
50:154	NIACC Jazz Ensemble	1 s.h.
50:155	Chamber Ensemble	1 s.h.
50:156	Applied Music Vocal	1-2 s.h.
50:157	Applied Piano	1-2 s.h.
50:158	Applied Music Flute	1-2 s.h.
50:159	Applied Music Oboe	1-2 s.h.
50:160	Applied Music Clarinet	1-2 s.h.
50:161	Applied Music Bassoon	1-2 s.h.
50:162	Applied Music Saxophone	1-2 s.h.
50:163	Applied Music Trumpet	1-2 s.h.
50:164	Applied Music French Horn	1-2 s.h.
50:165	Applied Music Trombone	1-2 s.h.
50:166	Applied Music Euphonium	1-2 s.h.
50:167	Applied Music Tuba	1-2 s.h.
50:168	Applied Music Percussion	1-2 s.h.
50:169	Applied Music Drum Set	1-2 s.h.
50:170	Applied Music Guitar	1-2 s.h.
50:195	Beginning Piano	1 s.h.
80:140	American History to 1877	3 s.h.
80:141	American History 1877 to Present	3 s.h.
80:201	Western Civilization to 1648	4 s.h.
80:202	Western Civilization from 1648 to Present	4 s.h.
80:210	Introduction to Philosophy	3 s.h.
80:212	Ethics	3 s.h.
85:150	Introduction to Theatre, TV, and Film	3 s.h.

**NATURAL SCIENCES**

40:121	Mathematics for Decision Making	3 s.h.
40:122	Mathematics for Elementary Teachers	3 s.h.
40:125	Quantitative Methods	3 s.h.
40:140	Intro to Statistics	3 s.h.
40:151	College Algebra and Trigonometry I	4 s.h.
40:152	College Algebra and Trigonometry II	4 s.h.
40:161	Precalculus	4 s.h.
40:240	Calculus for Business	3 s.h.
40:251	Analytic Geometry and Calculus I	4 s.h.
40:252	Analytic Geometry and Calculus II	4 s.h.
40:253	Analytic Geometry and Calculus III	4 s.h.
40:261	Differential Equations	3 s.h.
70:100	Introduction to Laboratory Science	2 s.h.
70:101	Biological Principles	3 s.h.
70:102L	Biological Principles Lab I	1 s.h.
70:104	Environmental Science	3 s.h.
70:105	Biology I	4 s.h.
70:108	Biology II	4 s.h.
70:109	Microbiology	4 s.h.
70:110	Health and Nutrition	3 s.h.
70:111	Human Biology	4 s.h.
70:114	Intro to Physical Science	4 s.h.
70:122	Principles of Physics	4 s.h.
70:135	General Chemistry I	5 s.h.
70:136	General Chemistry II	5 s.h.
70:137	Chemistry Principles I	5 s.h.
70:138	Chemistry Principles II	5 s.h.
70:140	Introductory Chemistry	4 s.h.

70:149	Kinesiology	3 s.h.
70:161	Genetics	4 s.h.
70:182	Astronomy	3 s.h.
70:200	Nutrition	3 s.h.
70:249	Urinalysis I	3 s.h.
70:250	Anatomy and Physiology I	4 s.h.
70:251	Anatomy and Physiology II	4 s.h.
70:260	Quantitative Analysis	4 s.h.
70:272	Fundamentals of Organic Chemistry	3 s.h.
70:273	Organic Chemistry	4 s.h.
70:274	Organic Chemistry I	5 s.h.
70:275	Organic Chemistry II	5 s.h.
70:280	General Physics I	4 s.h.
70:281	General Physics II	4 s.h.
70:282	College Physics I	5 s.h.
70:283	College Physics II	5 s.h.

**SOCIAL SCIENCES**

80:101	General Psychology	3 s.h.
80:103	Educational Psychology	3 s.h.
80:104	Child Psychology	3 s.h.
80:110	Sociology	3 s.h.
80:111	Social Problems	3 s.h.
80:112	Marriage and Family	3 s.h.
80:120	Intro to American Government	3 s.h.
80:121	American State & Local Govt	3 s.h.
80:122	International Relations	3 s.h.
80:133	Macroeconomics	3 s.h.
80:134	Microeconomics	3 s.h.
80:135	Personal Finance	3 s.h.
80:150	Introduction to Physical Geography	3 s.h.
80:151	Regional Geography of the Developed World	3 s.h.
80:152	Regional Geography of the Non-Western World	3 s.h.
80:160	Cultural Anthropology	3 s.h.
80:230	Human Growth and Development	3 s.h.

**BUSINESS**

15:101	Intro to Business	3 s.h.
15:107	Keyboarding for Office Technology	3 s.h.
15:109	Introduction to Accounting	3 s.h.
15:110	Electronic Calculators	1 s.h.
15:112	Keyboarding Level I	1 s.h.
15:113	Keyboarding Level II	1 s.h.
15:114	Computer Literacy	1 s.h.
15:118	Accounting Procedures	3 s.h.
15:119	Accounting Applications	5 s.h.
15:120	Business Law I	3 s.h.
15:121	Business Law II	3 s.h.
15:122	Legal Office Procedures	5 s.h.
15:126	Introduction to Sport Management	3 s.h.
15:127	Current Issues in Sport	3 s.h.
15:128	Internship in Sport Management	1-3 s.h.
15:134	Computer Applications	3 s.h.
15:136	Advanced Document Processing	3 s.h.
15:140	Introduction to Computers and Information Systems	3 s.h.
15:141	MIS I	3 s.h.
15:142	Principles of Management	3 s.h.
15:144	Principles of Supervision	3 s.h.

15:149	Managing Human Resources	3 s.h.	15:259	Medical Office Procedures	3 s.h.
15:150	Accounting Principles I	3 s.h.	15:265	Medical Transcription III	3 s.h.
15:151	Accounting Principles II	3 s.h.	15:277	Network Routing	5 s.h.
15:155	Payroll Accounting	3 s.h.	15:278	Network Remote Access	5 s.h.
15:156	Networking I	4 s.h.	15:280	On-the-Job Training	3 s.h.
15:157	Networking II	4 s.h.	15:285	Multi-Layer Switching	5 s.h.
15:158	Networking III	4 s.h.	15:286	Network Support	5 s.h.
15:159	Networking IV	4 s.h.	15:287	Emerging Remote Access Tech	3 s.h.
15:160	Computer Accounting	3 s.h.	15:288	Network Design I	3 s.h.
15:161	Operating Systems I	3 s.h.	15:289	Network Design II	4 s.h.
15:163	Network Operating Systems	4 s.h.	15:290	Fundamentals of Project Management	4 s.h.
15:164	Groupware Applications I	4 s.h.	15:299A	Special Problems in Business	1 s.h.
15:165	Groupware Applications II	4 s.h.	15:299B	Special Problems in Business	2 s.h.
15:166	Inter/Intranet Application Management	4 s.h.	15:299C	Special Problems in Business	3 s.h.
15:167	Network Security	3 s.h.			
15:168	Introduction to Programming	4 s.h.	<b>ELECTIVES</b>		
15:169	Media Experience	3 s.h.	10:210	Painting I	3 s.h.
15:170	Principles of Banking	3 s.h.	10:211	Painting II	3 s.h.
15:171	Introduction to Entrepreneurship	3 s.h.	20:101	Intro to Teaching	3 s.h.
15:172	Managing the Entrepreneurial Venture	3 s.h.	20:110	Educational Measurement and Eval	2 s.h.
15:173	Seminar in Entrepreneurship	3 s.h.	20:120	Including Exceptional Students	3 s.h.
15:174	Database Management	3 s.h.	20:195	Ed Media & Classroom Comp Tech	3 s.h.
15:175	Electronic Spreadsheets	3 s.h.	25:110	Orientation to Engineering	0 s.h.
15:176	Advanced Desktop Applications	3 s.h.	25:111	Engineering Problems with FORTRAN	3 s.h.
15:177	Operating Systems II	3 s.h.	25:112	Engineering Graphics and Design	3 s.h.
15:178	Hardware Service and Support	4 s.h.	25:231	Statics of Engineering	3 s.h.
15:179	Novell Administration	4 s.h.	25:241	Dynamics	3 s.h.
15:186	Internet Programming I	3 s.h.	25:251	Mechanics of Materials	3 s.h.
15:187	Internet Programming II	3 s.h.	30:113	LOGOS	1 s.h.
15:188	Web Server Development	4 s.h.	30:120	College Reading Skills	3 s.h.
15:190	General Insurance	3 s.h.	30:205	Creative Writing	3 s.h.
15:191	Introduction to E-Commerce	3 s.h.	40:120	Intermediate Algebra	4 s.h.
15:194	E-Commerce Cases	4 s.h.	50:120	Intro Music Theory	2 s.h.
15:195	Property/Casualty Insurance	3 s.h.	60:107	Bowling	1 s.h.
15:196	Structure and Design	3 s.h.	60:108	Aerobics/Tae-Bo	1 s.h.
15:197	Internet Law	3 s.h.	60:112	Scuba	1 s.h.
15:199	Web Application Development	3 s.h.	60:113	Physical Fitness	1 s.h.
15:200	Life, Health & Disability Insurance	3 s.h.	60:114	Physical Fitness Lab	1 s.h.
15:201	Visual Communication	3 s.h.	60:115	Games and Officiating I	2 s.h.
15:202	Web Design	3 s.h.	60:116	Games and Officiating II	2 s.h.
15:203	Server Side Scripting	4 s.h.	60:117	Intro to Physical Education	2 s.h.
15:204	Java	4 s.h.	60:118	Care and Prevention of Athletic Injuries	2 s.h.
15:207	60-Hour Real Estate Prelicense	3 s.h.	60:120	Baseball (Intercollegiate)	1 s.h.
15:210	Business Statistics	3 s.h.	60:121	Basketball (Intercollegiate)	1 s.h.
15:211	Word Processing	2 s.h.	60:122	Football (Intercollegiate)	1 s.h.
15:212	Business Communication	3 s.h.	60:123	Golf (Intercollegiate)	1 s.h.
15:218	Professional Office Procedures	4 s.h.	60:127	Softball (Intercollegiate)	1 s.h.
15:221	Marketing	3 s.h.	60:128	Volleyball (Intercollegiate)	1 s.h.
15:222	Principles of Advertising	3 s.h.	60:129	Soccer	1 s.h.
15:223	Principles of Selling	3 s.h.	60:150	Theory, Ethics, and Professional Responsibilities of Coaching Interscholastic Athletics	1 s.h.
15:225	Microsoft Access	1 s.h.	60:152	Intro to Anatomy and Physiology for Coaching	1 s.h.
15:226	Microsoft PowerPoint	1 s.h.	60:153	Human Development in Sports	1 s.h.
15:227	Microsoft Outlook	1 s.h.	60:175	Rape Education and Self Defense	2 s.h.
15:228	Software Integration	1 s.h.	60:232	First Aid and Personal Safety	1 s.h.
15:230	Money and Banking	3 s.h.	70:113	Fire Behavior and Investigation	4 s.h.
15:241	Human Relations	3 s.h.	70:112	Animal Science I	3 s.h.
15:249	Medical Transcription I	3 s.h.	70:115	Fire Protection Technology	4 s.h.
15:250	Basic Medical Insurance & Coding	2 s.h.			
15:251	Medical Terminology I	3 s.h.			
15:252	Medical Terminology II	3 s.h.			
15:256	Medical Transcription II	3 s.h.			

70:116	Hazardous Materials Technician	3 s.h.
70:117	The Incident Command System	1 s.h.
70:119	Fire Instructor I	2 s.h.
70:212	Animal Science II	3 s.h.
80:125	Student Senate	1 s.h.
80:127	Leadership Development Seminar	2 s.h.
80:114	Intro to Human Services	3 s.h.
80:144	American Indian History	3 s.h.
80:190	Criminal Law I	3 s.h.
80:191	Criminal Law II	3 s.h.
80:192	Patrol Procedures	3 s.h.
80:290	Criminal Evidence	3 s.h.
80:291	Administration of Justice	3 s.h.
80:292	Criminal Investigation	3 s.h.
85:160	Stagecraft	3 s.h.
85:170	Intro to Acting	3 s.h.
89:100	Cooperative Work Experience	1-5 s.h.
89:120	Individualized Educational Planning and Assessment	1 s.h.
89:150	Employment Strategies	1 s.h.
89:151	Academic Success Seminar	2 s.h.
89:152	Career Decision Making	2 s.h.
89:153	ACE-Action for College Education	1 s.h.
89:155	Financial Management/Insurance Internship	3 s.h.
89:163	Professions in Health	2 s.h.
89:164	Nurse Aide Theory	2 s.h.
89:165	Nurse Aide Clinical	1 s.h.
89:170	First Responder	2 s.h.
89:171	EMT Paramedic: Part I	6 s.h.
89:172	EMT Paramedic: Part II	7 s.h.
89:173	EMT Paramedic: Part III	3 s.h.
89:174	EMT Paramedic: Part IV	3 s.h.
89:175	EMT-I	4 s.h.
89:195	EMT B: Part I	4 s.h.
89:196	EMT B: Part II	2 s.h.

All special problems courses, unless otherwise indicated, are elective courses.

### Quotable Quote:

*The trouble with not having a goal is that you can spend your life running up and down the field and never scoring.*

-Bill Copeland