

# 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.**

Course equivalency sheets between NIACC and transfer institutions are available from a NIACC counselor/advisor. Equivalency guides are also listed under Transfer Information on NIACC's web site. Some equivalency guide links include the University of Northern Iowa, Iowa State University, and The University of Iowa.

## Division Chairs:

***Adriana Attleson, Mathematics***  
(641) 422-4152

***Gary Christiansen, Business***  
(641) 422-4226

***Larry Eichmeier, Agriculture***  
(641) 422-4225

***Patrick Gallart, Natural Science***  
(641) 422-4100

***John Groninga, Communication***  
(641) 422-4228

***Donna Orton, Health***  
(641) 422-4216

***John Schmaltz, Humanities and Social Science***  
(641) 422-4323

***John Sjolinder, Industrial***  
(641) 422-4202

***Larry Mozack, Transfer Relations***  
(641) 422-4205



## 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.....	4 s.h.
Business Law I and II .....	6 s.h.
MIS I.....	3 s.h.
Principles of Management .....	3 s.h.
Principles of Accounting I and II .....	6 s.h.
Personal Income Tax .....	3 s.h.
Principles of Marketing .....	3 s.h.
Money and Banking.....	3 s.h.
Business Communication .....	3 s.h.
Intro to Statistics .....	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.

Composition & Speech I and 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.
Introduction to Ag Business .....	3 s.h.

## Art

Composition & Speech I and 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 art 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.

Composition & Speech I and II.....	4 s.h.
Speech.....	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 and II .....	8 s.h.
Drawing.....	3 s.h.*
Two-Dimensional Design .....	3 s.h.*
Painting I and II.....	6 s.h.*
Introduction to 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 web site at <http://www.drake.edu/dc/> or contact the Office of Admissions, 1-800-44-DRAKE, ext. 3181. It is recommended that NIACC students planning for transfer to Drake save their 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**

## RESIDENTIAL CAMPUS

Students should consider taking the following courses to meet requirements.

Art History I and 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.

History of Art I and II .....	8 s.h.
Drawing .....	3 s.h.
Ceramics .....	3 s.h.
Painting I and II .....	6 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 .....	4 s.h.
Environmental Science .....	3 s.h.
Microbiology .....	4 s.h.
Chemistry Principles I and II .....	10 s.h.
Anatomy and Physiology I and II .....	8 s.h.
Organic Chemistry I and II .....	10 s.h.
General Physics I and II or	
College Physics I and II .....	8-10 s.h.
Biology I and II .....	8 s.h.

**Upper Iowa University**

## RESIDENTIAL CAMPUS

Students should consider taking the following courses to meet requirements in the following majors.

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.
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.
Environmental Science*** .....	3 s.h.
Biological Principles .....	3 s.h.
Biological Principles Lab .....	1 s.h.

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

\*\*Biological Principles and Biological Principles Lab combined equal Simpson's BIOL111.

\*\*\*Environmental Science meets a requirement in the Environmental Science major, not in the Biology major.

## 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:

Composition & Speech I and II .....	8 s.h.
Macro and Microeconomics .....	6 s.h.
Introduction to Computers and Information Systems .....	3 s.h.
Introduction to Statistics .....	3 s.h.
Principles of Accounting I and 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.
Principles of Marketing .....	3 s.h.
Principles of Management .....	3 s.h.
MIS I.....	3 s.h.

#### MANAGEMENT/ ENTREPRENEURSHIP

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

#### FINANCE AND BANKING

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

#### MANAGEMENT INFORMATION SYSTEMS

Quantitative Methods .....	3 s.h.
Business Law I.....	3 s.h.
Principles of Marketing .....	3 s.h.
MIS I.....	3 s.h.
Principles of Management .....	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.
Principles of Accounting I.....	3 s.h.
Principles of Accounting II.....	3 s.h.
Business Law I.....	3 s.h.
Calculus for Business* .....	3 s.h.
Statistics for Business.....	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 web site at <http://www.drake.edu/dc/> or contact the Office of Admissions 1-800-44-DRAKE, ext. 3181. It is recommended that NIACC students save their 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:

Business Law I.....	3 s.h.
MIS I.....	3 s.h.
Principles of Management .....	3 s.h.
Principles of Accounting I and II .....	6 s.h.
Business Communications.....	3 s.h.
Principles of Marketing .....	3 s.h.
Macroeconomics .....	3 s.h.
Microeconomics .....	3 s.h.
Introduction to Statistics.....	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. MIS requires a 2.75 GPA. The foundation courses include:

Composition & Speech I and II .....	6-8 s.h.
Quantitative Methods .....	3 s.h.
Principles of Accounting I.....	3 s.h.
Introduction to Computers and Information Systems .....	3 s.h.
Microeconomics .....	3 s.h.
Statistics for Business.....	3 s.h.

IST Major Courses .....	40-44 s.h.
Composition & Speech I and II .....	8 s.h.
Principles of Accounting 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.
Principles of Accounting I.....	3 s.h.
Principles of Accounting II.....	3 s.h.
College Algebra.....	4 s.h.
Statistics for Business.....	3 s.h.
Business Law I.....	3 s.h.
Computer Applications .....	3 s.h.
Management Information Systems I.....	3 s.h.
World Language (for International Business .....	8 s.h.
- Intermediate Level)	

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

Introduction to Business OR	
Principles of Management .....	3 s.h.
Business Law I.....	3 s.h.
Business Law II.....	3 s.h.
Macroeconomics .....	3 s.h.
Microeconomics .....	3 s.h.
Ethics .....	3 s.h.
General Insurance .....	3 s.h.
Statistics for Business.....	3 s.h.
Calculus for Business (not for Accounting).....	3 s.h.
Principles of Marketing .....	3 s.h.
Introduction to Accounting or Principles of Accounting I.....	3 s.h.
Principles of Accounting II.....	6 s.h.
Managing the Entrepreneurial Venture OR	
Seminar in Entrepreneurship .....	3 s.h.
Managing Human Resources .....	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 prerequisites 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

*Calculus for Business .....	3 s.h.
*Principles of Accounting I and II .....	6 s.h.
*Macroeconomics .....	3 s.h.
*Microeconomics.....	3 s.h.
Business Law I.....	3 s.h.
Global and Cultural Studies .....	3 s.h.
*Introduction to Statistics .....	3 s.h.

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, REAL ESTATE

Quantitative Methods .....	3 s.h.
Statistics for Business.....	3 s.h.
Introduction to Computers and Information Systems .....	3 s.h.
Macroeconomics .....	3 s.h.

BUSINESS TEACHING MAJOR

Introduction to Teaching.....	3 s.h.
Developmental Psychology.....	3 s.h.
Quantitative Methods .....	3 s.h.
Statistics for Business.....	3 s.h.
Introduction to Computers and Information Systems .....	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.

MARKETING MAJOR

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

MANAGEMENT MAJOR

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

**Waldorf College**

Courses that may be taken at North Iowa Area Community College to complete major requirements. All courses in the major must be completed with a grade of C- or higher.

Macroeconomics.....	3 s.h.
Microeconomics.....	3 s.h.
Principles of Accounting I.....	3 s.h.
Principles of Accounting II.....	3 s.h.
Introduction to Computers and Information Systems.....	3 s.h.
Quantitative Methods.....	3 s.h.
Statistics for Business.....	3 s.h.
Business Law I and II.....	6 s.h.
Business Communication.....	3 s.h.
Principles of Management.....	3 s.h.

**Wartburg College**

ACCOUNTING, FINANCE

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

MANAGEMENT, MARKETING

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

INTERNATIONAL BUSINESS

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

**Chiropractic**

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

Composition & Speech I and II.....	6 s.h.
General Chemistry I and II.....	10 s.h.
OR	
Chemistry Principles I and II.....	10 s.h.
Organic Chemistry I and II.....	10 s.h.
General Physics I and II.....	8 s.h.
Anatomy & Physiology I and II.....	8 s.h.
Humanities/Social Sciences.....	15 s.h.
Introduction to 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.

**Communications**

**Waldorf College**

Courses that may be taken at North Iowa Area Community College to complete major requirements. All courses in the major must be completed with a grade of C- or higher.

Introduction to Journalism	
OR	
News Writing and Reporting.....	3 s.h.

**Computer Information Systems**

**Waldorf College**

Courses that may be taken at North Iowa Area Community College to complete major requirements. All courses in the major must be completed with a grade of C- or higher.

Computer Applications	
OR	
Introduction to Computers and Information Systems.....	3 s.h.
Management Information Systems I.....	3 s.h.
Operating Systems.....	3 s.h.
plus Networking I.....	4 s.h.
plus Database Management Systems.....	3 s.h.
plus Structure and Design.....	3 s.h.
plus Media Experience.....	3 s.h.

Introduction to E-Commerce .....	3 s.h.
plus E-Commerce Cases .....	4 s.h.
Networking I .....	4 s.h.
plus Networking II .....	4 s.h.
plus Networking III .....	4 s.h.
plus Networking IV .....	4 s.h.
OR	
Media Experience .....	3 s.h.
plus Structure and Design .....	3 s.h.
plus Internet Programming I .....	3 s.h.
plus Internet Programming II .....	3 s.h.
plus Web Server Development .....	4 s.h.
OR Web Application Development .....	3 s.h.

## Computer Science

### Drake University

#### COMPUTER SCIENCE

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

Analytic Geometry and Calculus I and II .....	8 s.h.
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For specific Drake curriculum (general education) requirements, students should access the Drake curriculum web site at <http://www.drake.edu/dc/> or contact the Office of Admissions 1-800-44-DRAKE, ext. 3181. It is recommended that NIACC students save their 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:

Engineering Problems with FORTRAN .....	3 s.h.
Analytic Geometry & Calculus I .....	4 s.h.
Quantitative Methods .....	3 s.h.
Introduction to Statistics .....	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:

Composition & Speech I and II .....	8 s.h.
Analytic Geometry and Calculus I and II .....	8 s.h.
College Physics I and 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:

Composition & Speech I and II .....	8 s.h.
Analytic Geometry and Calculus I and II .....	8 s.h.

Chemistry Principles I and II OR	
College Physics I and II OR	
Biology I and II .....	8-10 s.h.

#### CIS/MIS

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

Composition & Speech I and II .....	8 s.h.
Introduction to Statistics .....	3 s.h.
Analytic Geometry and Calculus I .....	4 s.h.
Statistics for Business .....	3 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 & Calc I and II .....	8 s.h.
Statistics for Business .....	3 s.h.

#### COMPUTER INFORMATION SYSTEMS

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

Statistics for Business .....	3 s.h.
Analytical Geometry & Calculus I and II .....	8 s.h.
Introduction to Business or	
Principles of Management .....	3 s.h.
Macroeconomics .....	3 s.h.
Microeconomics .....	3 s.h.
Introduction to Accounting or	
Principles of Accounting 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	
Analytic Geometry and Calculus II or	
Introduction to Statistics .....	7-8 s.h.

#### B.S. Degree:

Analytic Geometry and Calculus I and II .....	8 s.h.
and	
Introduction to Statistics .....	3 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:

- Principles of Accounting 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**

**RESIDENTIAL CAMPUS**

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.
- Introduction 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:

- Introduction to 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

- Introduction to Psychology ..... 3 s.h.
- Sociology ..... 3 s.h.
- Social Problems ..... 3 s.h.
- Computer Applications ..... 3 s.h.
- Administration of Justice ..... 3 s.h.
- Introduction to American Government ..... 3 s.h.
- Introduction to Statistics ..... 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):

- Statistics for Business ..... 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:

- Introduction to Accounting or  
Principles of Accounting I ..... 3 s.h.
- Introduction 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.

**Criminology**

**Upper Iowa University**

**RESIDENTIAL CAMPUS**

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

- Sociology ..... 3 s.h.
- Social Problems ..... 3 s.h.
- Criminal Law I ..... 3 s.h.

**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 90 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:

- Composition & Speech I and II ..... 8 s.h.
- Biology I and 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, business, accounting, 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 (AADSAS). The AADSAS 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 AADSAS 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 Art Appreciation OR Introduction to Theater OR Art History .....	3 s.h.
*Physical Science OR Introduction to Chemistry .....	4 s.h.
*Biology .....	3 s.h.
Composition & Speech I and II .....	8 s.h.
Introduction to Psychology .....	3 s.h.
Mathematics for Elementary Teachers I and II .....	6 s.h.
A 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 Developmental Psychology OR Child and Adolescent Psychology .....	3 s.h.

\* Must include one lab.

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.

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

3. Composition & Speech I and 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 Art Appreciation OR Introduction to Theater OR Art History .....	3 s.h.
Physical Science OR Introduction to Chemistry .....	4 s.h.
Biology .....	3 s.h.
Composition & Speech I and II .....	8 s.h.
Introduction to Psychology .....	3 s.h.
Educational Psychology and Developmental Psychology OR Child and Adolescent Psychology .....	3 s.h.
Public Speaking .....	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.

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.
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:

Composition & Speech I and II .....	8 s.h.
Mathematics for Elementary Teachers I and II (elementary only) .....	6 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.
Introduction to Teaching .....	3 s.h.

Educational Measurement & Evaluation.....	2 s.h.
Ed Media & Classroom Computing Techniques .....	3 s.h.
Including Exceptional Students.....	3 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 (general education) information, students should access the Drake curriculum web site at <http://www.drake.edu/dc/> or contact the Office of Admissions, 1-800-44-DRAKE, ext. 3181. It is recommended that NIACC students planning for transfer to Drake save their NIACC course syllabi for in-depth review for Drake curriculum outcomes fulfillment upon transfer.

**Grand View College**

**ELEMENTARY EDUCATION**

Introduction to Psychology.....	3 s.h.
Educational Psychology.....	3 s.h.
Developmental Psychology.....	3 s.h.
Art Appreciation.....	3 s.h.
Art in the Elementary School.....	3 s.h.
Children's Literature.....	3 s.h.
Mathematics for Elementary Teachers I and II.....	6 s.h.
College Algebra.....	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**

Introduction to Psychology.....	3 s.h.
Educational Psychology.....	3 s.h.
Developmental Psychology.....	3 s.h.
College Algebra.....	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 and 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 and II.....	6 s.h.
Digital Illustration.....	3 s.h.

**SECONDARY EDUCATION/BUSINESS ADMINISTRATION**

Introduction to Psychology.....	3 s.h.
Educational Psychology.....	3 s.h.
Developmental Psychology.....	3 s.h.
Macroeconomics.....	3 s.h.
Microeconomics.....	3 s.h.
Business Law I and II.....	6 s.h.
MIS I.....	3 s.h.
Principles of Accounting I and II.....	6 s.h.
College Algebra.....	4 s.h.
Introduction to Teaching.....	3 s.h.
Educational Measurement and Evaluation .....	2 s.h.
Including Exceptional Students.....	3 s.h.
Educational Media and Classroom Computing Techniques .....	3 s.h.

**Iowa State University**

**HIGH SCHOOL TEACHER EDUCATION (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:

Composition & Speech I and II.....	8 s.h.
Developmental Psychology.....	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 (May include First Aid and Physical Safety).....	3 s.h.
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 Elementary Teachers I and II .....	6 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.

Students are required to complete a foreign language before graduation. This requirement can be met by completing two semesters of a single language in college or three semesters of a single language in high school.

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, a combined score of 522 on the PRAXIS I with no score less than 170, at least a C grade in Composition & Speech I and II, 10 hours of documented field observation, and good mental/physical health.

**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:

Composition & Speech I and II.....	8 s.h.
Mathematics for Decision Making.....	3 s.h.
Mathematics for Elementary Teachers I and II.....	6 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.
Introduction to Acting.....	3 s.h.

A 2.75 cumulative grade point average is required for professional education. The Pre-Professional Skills Test (PPST) 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**

Composition & Speech I and II.....	8 s.h.
Introduction to Teaching.....	3 s.h.
Developmental Psychology.....	3 s.h.
Including Exceptional Students.....	3 s.h.
Ed Media & Classroom Computing Techniques.....	3 s.h.

Elementary Only:

Art in the Elementary School.....	3 s.h.
Math for Elementary Teachers I and II.....	6 s.h.
Introduction 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.
Children's Literature.....	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.
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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 highly competitive and is based on an achievement profile which includes: GPA; PRAXIS I (minimum 522 composite, with no sub score lower than 170). In addition, students should have completed an approved 10-hour volunteer practicum.

Education majors fulfill the same General Education Program Requirements (GERs) as students in the College of Liberal Arts and Sciences. 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. State licensure requires one college-level math course.

**ELEMENTARY AND SECONDARY EDUCATION**

NIACC students should complete:

Introduction 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.

**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.
Composition & Speech I and II.....	8 s.h.
Children's Literature.....	3 s.h.
Mathematics for Elementary Teachers I and II.....	6 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 A.A. is not earned)	
Child and Adolescent Psychology (not required).....	3 s.h.
Developmental Psychology.....	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 I and II .....	6 s.h.
Educational Media Techniques .....	3 s.h.
Children's Literature .....	3 s.h.
Composition & Speech I and II .....	8 s.h.
Introduction to Teaching .....	3 s.h.
Developmental Psychology .....	3 s.h.
Educational Psychology .....	3 s.h.
Ed Measurement & Evaluation .....	3 s.h.
Mainstreaming the Exceptional Student .....	3 s.h.
Nutrition .....	3 s.h.

**INTEGRATED TECHNOLOGY EDUCATION**

Integrated Technology Education majors should consider:

Composition & Speech I and II .....	8 s.h.
General Physics I .....	4 s.h.
Introduction to Statistics .....	3 s.h.
Introduction to Teaching .....	3 s.h.
Developmental Psychology .....	3 s.h.
Educational Psychology .....	3 s.h.
Mainstreaming the Exceptional Student .....	2 s.h.
Educational Measurement & Evaluation .....	2 s.h.

**SECONDARY EDUCATION**

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

Educational Media Techniques .....	3 s.h.
Introduction to Teaching .....	3 s.h.
Developmental Psychology .....	3 s.h.
Educational Psychology .....	3 s.h.
Educational Measurement & Evaluation .....	2 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.

**Waldorf College**

Students planning to transfer into the Teacher Education Program need a minimum cumulative GPA of 2.50, need at least 12 semester hours of Professional Education and Content Core courses completed, need to have taken the PRAXIS I exam with scores of 173 (320 Computer) in Reading, 172 (318 Computer) in Writing, 169 (314 Computer) in Mathematics, and need good physical/mental health.

All courses in the major plus Composition & Speech I and II, the mathematics course, and the two science courses must be completed with a grade of C- or higher.

The following courses may be taken at North Iowa Area Community College to complete major requirements.

U.S. History course (Elementary Education only) .....	3 s.h.
*Physical Science course .....	4 s.h.
*Biological Science course .....	4 s.h.
Public Speaking .....	2 s.h.
Developmental Psychology .....	3 s.h.
Introduction to Teaching .....	3 s.h.
Including Exceptional Students .....	3 s.h.
Educational Media .....	3 s.h.

Children's Literature (Elementary Education only) .....	3 s.h.
Educational Psychology .....	3 s.h.

\* Only Elementary Education needs two sciences.

Students could also complete course work for the following concentrations for Elementary Education:

**SCIENCE CONCENTRATION**

Physical Science course .....	4 s.h.
Biological Science course .....	4 s.h.
One Additional Lab Science .....	4 s.h.

**MATHEMATICS CONCENTRATION**

Intermediate Algebra .....	4 s.h.
College Algebra .....	4 s.h.
Calculus I .....	4 s.h.

**SPANISH CONCENTRATION**

Complete at least 12 credits from the following:	
Beginning Spanish I and II .....	8 s.h.
Intermediate Spanish I and II .....	6 s.h.
Advanced Spanish I and II .....	6 s.h.

**THEATRE CONCENTRATION**

Introduction to Theatre, TV, Film .....	3 s.h.
Acting I .....	3 s.h.
An additional course and practicums to be completed at Waldorf College.	

**COACHING AUTHORIZATION/ENDORSEMENT**

Care and Prevention of Athletic Injuries .....	2 s.h.
Theory, Ethics, and Professional Responsibilities of Coaching .....	1 s.h.
Introduction to Anatomy and Physiology for Coaching .....	1 s.h.
Human Development in Sports .....	1 s.h.

**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.
Composition & Speech I and II .....	8 s.h.
Children's Literature .....	3 s.h.
Biological Principles AND .....	3 s.h.
Biological Principles Laboratory .....	1 s.h.
Introduction to Psychology .....	3 s.h.
Developmental Psychology .....	3 s.h.
Public Speaking .....	2 s.h.

**SECONDARY EDUCATION**

Introduction to Teaching .....	3 s.h.
Educational Media Techniques .....	3 s.h.
Composition & Speech I and II .....	8 s.h.
Introduction to Psychology .....	3 s.h.
Developmental Psychology .....	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 curriculums. 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:

Composition & Speech I and II .....	8 s.h.
Analytic Geometry and Calculus .....	12 s.h.
Differential Equations .....	3 s.h.
Chemistry Principles .....	5 s.h.
College Physics .....	10 s.h.
Orientation to Engineering .....	0 s.h.
Engineering Problems with FORTRAN .....	3 s.h.
Socio-Humanistic electives .....	16-18 s.h.

Other NIACC courses which satisfy requirements for some engineering disciplines at Iowa State University:

Engineering Graphics and Design .....	3 s.h.
Statics of Engineering .....	3 s.h.
Mechanics of Materials.....	3 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.

**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:

Composition I .....	3 s.h.
Analytic Geometry and Calculus I, II, and III .....	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 Microeconomics .....	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:

Composition and Speech I and II .....	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.
Engineering Graphics and Design.....	3 s.h.
Engineering Problems with FORTRAN OR JAVA.....	3 s.h.
Statics of Engineering.....	3 s.h.
Social Sciences/Humanities.....	9 s.h.

Other NIACC courses which satisfy requirements for some engineering disciplines at the University of Iowa:

Mechanics of Materials .....	3 s.h.
Organic Chemistry I and II.....	10 s.h.

Students transferring directly to the College of Engineering must have demonstrated success in math, science, and engineering courses (generally A's or B's in these foundation subjects). At a minimum, transfer students need to have completed at least one semester of Calculus and either Chemistry Principles or College Physics.

**English**

**Waldorf College**

The following courses may be taken at North Iowa Area Community College to complete major requirements. All courses in the major must be completed with a grade of C- or higher.

Creative Writing .....	3 s.h.
World Literature I or II.....	3 s.h.
One semester of foreign language .....	3-4 s.h.
Introduction to Philosophy .....	3 s.h.
Art History I or II.....	3 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 percent natural science and 40 percent 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 organizations 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 and 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.
Composition & Speech 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 web site at <http://www.drake.edu/dc/> or contact the Office of Admissions, 1-800-44-DRAKE, ext. 3181. It is recommended that NIACC students planning for transfer to Drake save their 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.
Art Appreciation.....	3 s.h.
Art in the Elementary School.....	3 s.h.
Art History I and II.....	6 s.h.
Drawing.....	3 s.h.
Ceramics.....	3 s.h.
Graphic Design.....	3 s.h.
Painting I and II.....	6 s.h.
Digital Illustration.....	3 s.h.
2-D Design.....	3 s.h.

## History

### Waldorf College

Courses that may be taken at North Iowa Area Community College to complete major requirements. All courses in the major must be completed with a grade of C- or higher.

#### ALL HISTORY MAJORS

American History to 1877.....	3 s.h.
American History 1877 to Present.....	3 s.h.
Introduction to American Government.....	3 s.h.
Two semesters of foreign language.....	6-8 s.h.
Introduction to Philosophy.....	3 s.h.
Art History I or II.....	3 s.h.

#### TRADITIONAL HISTORY MAJOR

Western Civilization to 1648.....	3 s.h.
Western Civilization 1648 to Present.....	3 s.h.

#### HISTORY - POLITICAL SCIENCE MAJOR

Macroeconomics.....	3 s.h.
Western Civilization to 1648.....	3 s.h.
Western Civilization 1648 to present.....	3 s.h.

#### HISTORY - PRE-LAW MAJOR

Principles of Accounting I.....	4 s.h.
Western Civilization to 1648 or Western Civilization 1648 to Present.....	3 s.h.

## Home Economics

### University of Northern Iowa

#### INTERIOR DESIGN

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

#### TEXTILES AND APPAREL

Macroeconomics.....	3 s.h.
Microeconomics.....	3 s.h.
Principles of Accounting I.....	3 s.h.
Principles of Marketing - Elective.....	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.

Composition & Speech I and II.....	8 s.h.
Western Civilization I and II.....	8 s.h.
Psychology.....	3 s.h.
Developmental Psychology.....	3 s.h.
Sociology.....	3 s.h.
Economics.....	3 s.h.
Inorganic Chemistry.....	10 s.h.
Organic Chemistry.....	4 s.h.
Biological Principles.....	4 s.h.
Introduction to Education.....	3 s.h.
Art Appreciation.....	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.

Social Problems.....	3 s.h.
Developmental Psychology.....	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.

Introduction to Psychology OR Sociology.....	3 s.h.
Marriage and Family.....	3 s.h.
Introduction to Human Services.....	3 s.h.
State and Local Government.....	3 s.h.
Macroeconomics.....	3 s.h.
Developmental 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.

**Humanities**

**Waldorf College**

This major also includes a 24-semester-hour minor requirement. Students may begin taking course work in the minor (contact the Registrar's office at Waldorf College for this information). Students could also complete the following courses required for the major. All courses in the major must be completed with a grade of C- or higher.

One semester of foreign language.....	3-4 s.h.
Introduction to Philosophy.....	3 s.h.
Art History I or II.....	3 s.h.

**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 recommended for this degree. The following courses will apply to a business minor.

Principles of Accounting I.....	3 s.h.
Business Law I.....	3 s.h.
Principles of Management.....	3 s.h.
Principles of 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:

Introduction to Psychology.....	3 s.h.
Sociology.....	3 s.h.

## Industrial Technology

### University of Northern Iowa

The Department of Industrial Technology at the University of Northern Iowa has the following programs for students to pursue a four-year degree: Construction Management, Electrical and Information Engineering Technology, Graphic Communications, Technology Management, Technology Education, and Manufacturing Technology with three options - Metal Casting, Automation and Production, and Design.

There are several ways to transfer to the University of Northern Iowa in the Department of Industrial Technology. First, there is the Associate in Arts Degree (A.A.). With an A.A. Degree, a student will primarily focus on the major courses at UNI and will have few liberal arts courses remaining. Another option is to have an Associate in Applied Science Degree (A.A.S.). With an A.A.S. Degree, a student will have taken some of his/her technical courses and will still need to continue major courses and liberal art courses at UNI.

Articulation agreements, sometimes referred to as 2+2 agreements, have been developed for many of the technology-related A.A.S. programs at NIACC. These agreements provide details on transfer of NIACC credit into a program at UNI. Almost all technology-related A.A.S. programs at NIACC are articulated with the Technology Management major at UNI, but there are agreements for other majors in the Department of Industrial Technology as well.

For specific information on the way NIACC general education courses transfer to UNI, see the transfer equivalency sheet at: <http://www.uni.edu/admiss/web/transfer/equiv/index.html>. It is recommended that students planning to transfer to UNI visit with the UNI Office of Admissions and the Department of Industrial Technology.

If you have any questions about any of the Industrial Technology programs at the University of Northern Iowa, please contact our department at (319) 273-2562 or visit the web site at [www.uni.edu/indtech](http://www.uni.edu/indtech).

#### CONSTRUCTION MANAGEMENT

The Bachelor of Science Degree in Construction Management demands students possess a strong understanding of math and science, business, architecture, engineering, liberal arts, and construction science along with interrelationships between these disciplines. All of these areas of study coupled with summer work experience in the construction industry, prepare graduates for entry-level management positions in the construction industry.

#### Transferable NIACC Courses:

ACCT-120 Principles of Accounting I  
 COMP-110 Introduction to Computers and Information Systems  
 PHYS-120 General Physics I  
 CHEM-110 General Chemistry I  
 MATH-125 Quantitative Methods  
 MATH-251 Analytical Geometry and Calculus I  
 BUSN-120 Business Law I

STAT-104 Introduction to Statistics  
 ECON-110 Macroeconomics\*  
 ECON-111 Microeconomics\*

\*Please note that two NIACC courses of 6 s.h., i.e. ECON-110 Macroeconomics (3 s.h.) and ECON-111 Microeconomics (3 s.h.), will be transferred just to satisfy one UNI course of 3 s.h.

#### ELECTRICAL AND INFORMATIONAL ENGINEERING TECHNOLOGY (EIET)

The EIET program is a four-year undergraduate program leading to a Bachelor of Science Degree in electrical and information engineering technology. The major prepares students for application-oriented engineering technology careers in conventional and renewable electrical power, analog/digital electronics, microcomputer, instrumentation, telecommunications, and networking areas; also covered are mechanical, hydraulic, and pneumatic system controls. Students from Information Systems Technology and Electromechanical Systems Technology at NIACC may have a specific interest in the UNI EIET program.

#### Transferable NIACC Courses:

STAT-104 Introduction to Statistics  
 MATH-251 Analytic Geometry & Calculus I\*  
 MATH-252 Analytic Geometry & Calculus II  
 PHYS-220 College Physics I\*  
 PHYS-221 College Physics II  
 EMST-701 Introduction to Tech Computing & CAD  
 EMST-710 Industrial Control Systems  
 EMST-702 DC/AC Theory  
 EMST-711 Analog Devices & Circuits I  
 EMST-802 Introduction to Programmable Logic Controllers  
 EMST-803 Advanced PLCs and Systems Integration  
 EMST-817 Industrial Instrumentation  
 EMST-712 Digital Electronics  
 EMST-703 Fluid Power  
 INDU-701 Electrical Concepts  
 EMST-815 Servos and Drives  
 HVAC-815 Energy Management  
 ISTS-101 Networking I  
 ISTS-102 Networking II  
 ISTS-201 Networking III  
 ISTS-202 Networking IV  
 SRNE-202 Network Design I  
 SRNE-206 Network Design II

\*Course also meets UNI Liberal Arts Core requirements.

#### TECHNOLOGY EDUCATION

This Bachelor of Arts Degree prepares you to teach Technology Education or Industrial Technology at the secondary level (junior high and senior high) in Iowa. Both the A.A. and the technology-related associate level programs at NIACC have good transferability into this major. For elective courses in the associate program, consider the teaching courses below, which fulfill course requirements at UNI.

#### Transferable NIACC Courses:

EDUC-101 Introduction to Teaching  
 PSYC-110 Developmental Psychology  
 PSYC-205 Educational Psychology  
 EDUC-210 Educational Measurement and Evaluation  
 EDUC-220 Including Exceptional Students

**MANUFACTURING TECHNOLOGY**

The Bachelor of Science in Manufacturing provides theoretical and hands-on experience in the field of manufacturing to prepare management-oriented technical professionals for careers in manufacturing. There are three emphasis areas: Automation and Production, Design, and Metal Casting.

*Transferable NIACC Courses:*

- CHEM-110 General Chemistry
- PHYS-120 General Physics I
- PHYS-121 General Physics II
- STAT-104 Introduction to Statistics
- MATH-251 Analytical Geometry and Calculus I

**TECHNOLOGY MANAGEMENT**

The Bachelor of Arts Degree in Technology Management provides a broad background in technology as well as the management associated with harnessing the human, material, and information resources necessary for organizations to be successful. This is an excellent background for a wide variety of positions in business and industry.

Almost all technology-related associate level programs at NIACC are articulated with this major. See the transfer advisor at NIACC for the articulation agreement related to teach major.

**Information Systems Technology/MIS**

**Buena Vista University**

- Completion of IST program at NIACC with the following courses: ..40-44 s.h.
- Composition & Speech I and II ..... 8 s.h.
  - Principles of Accounting I and II ..... 6 s.h.
  - Principles of Management ..... 3 s.h.
  - Business Law I ..... 3 s.h.
  - Quantitative Methods ..... 3 s.h.
  - Principles of Marketing ..... 3 s.h.
  - Statistics for Business ..... 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.
- Principles of Accounting I ..... 3 s.h.
- Principles of Accounting II ..... 3 s.h.
- Business Law I ..... 3 s.h.
- Calculus for Business\* ..... 3 s.h.
- Statistics for Business ..... 3 s.h.

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

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

- Computer Applications
- OR Introduction to Computers and Information Systems ..... 3 s.h.
- Management Information Systems I ..... 3 s.h.

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

**Iowa State University**

- IST Major Courses ..... 40-44 s.h.
- Composition & Speech I and II ..... 8 s.h.
- Principles of Accounting 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.
- Composition & Speech I and II ..... 8 s.h.
- Western Civilization I or II ..... 4 s.h.
- Encounters in Humanities ..... 2 s.h.
- Introduction to Statistics ..... 3 s.h.
- Social Science Elective(s) (see advisor) ..... 3 s.h.
- Quantitative Methods ..... 3 s.h.
- Macroeconomics ..... 3 s.h.
- Principles of Accounting 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.
- Composition & Speech I and 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 underway 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:

- Composition I ..... 3 s.h.
- Speech ..... 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.
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 web site at <http://www.drake.edu/dc/> or contact the Office of Admissions, 1-800-44-DRAKE, ext. 3181. It is recommended that NIACC students planning for transfer to Drake save their 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 Journalism (3 s.h.), Introduction to Statistics (3 s.h.), and Newswriting 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:  
 Composition & Speech I and II..... 8 s.h.  
 Newswriting 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 and Sciences (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.  
 Newswriting 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:

Composition & Speech I and II.....	8 s.h.
Speech.....	2 s.h.
History.....	6 s.h.
College Algebra 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 web site at [www.educ.drake.edu/dc/](http://www.educ.drake.edu/dc/) or contact the Office of Admissions, 1-800-44-DRAKE, ext. 3181. It is recommended that NIACC students planning for transfer to Drake save their 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:

Composition & Speech I and 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.

Students may 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. Composition and Speech.....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.
Statistics for Business.....	3 s.h.
Principles of Accounting I and II .....	6 s.h.
Introduction to Business OR	
Principles of Management .....	3 s.h.
Business Law I and II .....	6 s.h.
Principles of 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:

Composition & Speech I and II.....	8 s.h.
Chemistry Principles .....	10 s.h.
Organic Chemistry .....	8 s.h.
Biology I and II.....	8 s.h.
Microbiology.....	4 s.h.
Anatomy and Physiology .....	8 s.h.
College Mathematics (including Statistics) and PreCalc .....	7 s.h.
Foreign Language .....	8 s.h.
Principles of Physics (recommended) .....	4 s.h.
Social Science Elective(s) .....	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:

- a. Communications. Eight semester hours shall consist of English, Speech, or Writing Communications.
- b. Natural Sciences. Nine semester hours shall consist of Chemistry, Biology I and II, Anatomy and Physiology, Histology, and Microbiology.
- c. Social Sciences. Nine semester hours shall consist of Psychology or Sociology.
- d. Business/Economics. Nine semester hours shall consist of Business Management, Accounting, Business Law, Computer Sciences, or Economics.
- e. Philosophy/Humanities. Nine semester hours shall consist of Philosophy, Religion, Art, or Music.
- f. 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.
Composition & Speech 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.
Developmental Psychology.....	3 s.h.
Introduction to Teaching.....	3 s.h.

College Algebra.....	4 s.h.
Anatomy and Physiology I and II.....	8 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.

**Waldorf College**

Prior to initial registration, all transfer students must make an appointment with the music department to determine the number of music credits and other requirements for the major that will be accepted for transfer. These courses include:

Music Theory I.....	4 s.h.
Music Theory II.....	4 s.h.
Music Theory III.....	4 s.h.
Music Theory IV.....	4 s.h.

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

One semester of foreign language.....	3-4 s.h.
Introduction to Philosophy.....	3 s.h.
Art History I or II.....	3 s.h.

Students pursuing the Arts Management Track could also complete Introduction to Computers and Information Systems (3 s.h.) or Computer Applications (3 s.h.).

**Nursing**

**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:

Introduction to Psychology.....	3 s.h.
Sociology.....	3 s.h.
Developmental Psychology.....	3 s.h.
Biology I.....	4 s.h.
Microbiology.....	4 s.h.
Nutrition.....	3 s.h.
Introduction to Statistics.....	3 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:

Composition & Speech I and II.....	8 s.h.
Principles of Physics or Physical Science*.....	4 s.h.
Introductory Chemistry or General Chemistry, Principles*.....	4 s.h.
Biology.....	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.
Introduction to Statistics**.....	3 s.h.
Developmental Psychology.....	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 prenursing.

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 highly 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 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 web site. 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.
Composition I.....	3 s.h.
Public Speaking.....	2 s.h.
Introduction to Psychology.....	3 s.h.
Developmental Psychology.....	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.
Introduction to Sociology.....	3 s.h.
Introduction to Computer/Information Systems.....	3 s.h.
Introduction to Statistics.....	3 s.h.
Ethics.....	3 s.h.

Students wishing to enter the Master of Occupational Therapy program at St. Ambrose University must complete the requirements listed below.

1. Complete the prerequisite course work prior to beginning the MOT program.
2. Have a minimum "computed" grade point average of 2.8 (on a 4.0 scale) at the time of application and enrollment in the professional program.
3. Submit three letters of reference on the official forms available in the application packet. These references should be from persons familiar with the applicant's qualities related to becoming an occupational therapist.
4. Provide documentation of 50 hours of OT volunteer experience completed in at least two different OT settings. This documentation should be submitted with the application, should be on official letterhead, and should be signed by a registered OT, or the applicant may submit documentation of employment in an occupational therapy setting.
5. Complete an on-campus interview.
6. Applications are accepted throughout the year for the following fall until the class is filled.
7. If students plan to complete their baccalaureate degree while enrolled in the MOT program, applicants should have completed all but six of the general education requirements by the time of acceptance into the program. They will also need to complete all the major requirements for their baccalaureate degree prior to enrolling in the third year of the MOT program. Students may need to enroll in a summer and interim session to complete this course of study in five years.

## Optometry

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

Composition & Speech 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 Elective(s).....	6 s.h.
Social Science Elective(s).....	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.

Composition I .....	3 s.h.
Speech .....	2 s.h.
*Chemistry Principles I and II .....	10 s.h.
*Organic Chemistry I and II .....	10 s.h.
*Biological Principles I and II .....	8 s.h.
*Microbiology .....	4 s.h.
*Analytic Geometry and Calculus I .....	4 s.h.
*Introduction to Statistics .....	3 s.h.
*Introduction 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 web site at <http://www.drake.edu/dc/> or contact the Office of Admissions, 1-800-44-DRAKE, ext. 3181. It is recommended that NIACC students planning for transfer to Drake save their 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.
Composition & Speech 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 and II .....	10 s.h.
Anatomy & Physiology I and II .....	8 s.h.
Microbiology .....	4 s.h.
Microeconomics .....	3 s.h.
Introduction to Statistics .....	3 s.h.
**General Education Elective(s) .....	12 s.h.

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

\*\*A minimum of 12 s.h. of general education electives required for admission. Total of 20 s.h. required for graduation. It is best to complete all 20 s.h. before starting the Pharmacy program. 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:

Composition & Speech 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.
Developmental Psychology .....	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 Elective(s) .....	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 of the college to which he/she will transfer in preparing schedules of classes. The student should also correspond with the head of the Department of Physical Education 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.

**GENERAL EDUCATION**

Anatomy and Physiology .....	4 s.h.
Introduction to Computers and Information Systems (non-teacher ed only) .....	3 s.h.
Quantitative Methods .....	3 s.h.
Introduction to Psychology .....	3 s.h.
Sociology .....	3 s.h.
Composition & Speech I and II .....	8 s.h.

**TEACHER LICENSURE**

Introduction to Teaching .....	3 s.h.
First Aid and Personal Safety .....	1 s.h.
Developmental Psychology .....	3 s.h.
Nutrition .....	3 s.h.
Educational Psychology .....	3 s.h.

**EXERCISE SCIENCE**

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.

**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.

**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.

**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.
Principles 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.
Introduction to Statistics.....	3 s.h.

**ATHLETIC TRAINING**

Nutrition.....	3 s.h.
Kinesiology.....	3 s.h.
Introduction to 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 and II.....	8 s.h.
Chemistry Principles I and II.....	10 s.h.
Organic Chemistry I and II.....	8 s.h.
General Physics I and II or College Physics I and II.....	8-10 s.h.
Computer Applications.....	3 s.h.
Differential Equations.....	3 s.h.
Engineering Problems with FORTRAN.....	3 s.h.
or Engineering Graphics and Design.....	3 s.h.

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

Physical Therapy programs are highly selective (36 students admitted each year) and require completion of a bachelor's degree for admission. Courses which should be taken at North Iowa Area Community College are:

Composition & Speech 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.
Pre-Calculus.....	4 s.h.
Foreign Language.....	0-16 s.h.
Anatomy and Physiology I and II.....	8 s.h.
Introduction 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 have received the baccalaureate degree. The Medical College Admissions Test (MCAT) will need to be taken. Courses which should be taken at North Iowa Area Community College are:

Composition & Speech I and II.....	8 s.h.
Chemistry Principles I and 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**

Physician Assistant programs are highly selective (25 students admitted each year) and require completion of a bachelor's degree for admission.

Composition & Speech 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 (recommended).....	8 s.h.
Foreign Language.....	0-16 s.h.
Foreign Civilization & Culture (recommended).....	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.

**Physics - Applied****University of Northern Iowa**

The B.S. in Applied Physics at the University of Northern Iowa provides a strong preparation for work in a variety of applied fields. Examples are manufacturing industries, engineering firms, medical facilities, and government laboratories. It also offers a good background for graduate study in some applied science or engineering programs. Students acquire a broad-based foundation in physics along with skills for analyzing and solving a variety of practical problems. Contact the UNI Physics Department at 319-273-2420 or learn more at [www.physics.uni.edu](http://www.physics.uni.edu).

Applied Physics/Engineering: Students may pursue a dual-degree

major leading to a B.S. Applied Physics Degree from UNI and a B.S. Engineering Degree from Iowa State University or the University of Iowa (see Engineering).

Courses that may be taken at North Iowa Area Community College to complete major requirements in the B.S. Applied Physics program at UNI are as follows:

ENGR-231 Statics of Engineering .....	3 s.h.
ENGR-232 Mechanics of Materials .....	3 s.h.
MATH-251 Analytic Geometry and Calculus I.....	4 s.h.
MATH-252 Analytic Geometry and Calculus II.....	4 s.h.
MATH-253 Analytic Geometry and Calculus III.....	4 s.h.
MATH-261 Differential Equations.....	3 s.h.
CHEM-210 Chemistry Principles I.....	5 s.h.
CHEM-211 Chemistry Principles II.....	5 s.h.
PHYS-220 College Physics I.....	5 s.h.
PHYS-221 College Physics II.....	5 s.h.

Students may complete additional courses to satisfy A.S. Degree requirements at North Iowa Area Community College.

## 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:

Introduction 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:

Introduction 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.
Introduction to Psychology.....	3 s.h.
Child and Adolescent 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:

Introduction to Psychology.....	3 s.h.
Child and Adolescent Psychology (as an elective) .....	3 s.h.

or	
Developmental Psychology.....	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.
Introduction to Psychology.....	3 s.h.
Developmental Psychology.....	3 s.h.
Child and Adolescent Psychology (elective).....	3 s.h.
Biological Principles I and Lab.....	4 s.h.
Composition & Speech 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.

Introduction to Psychology.....	3 s.h.
Introduction to Human Services.....	3 s.h.
Child and Adolescent Psychology.....	3 s.h.
Developmental Psychology.....	3 s.h.
Introduction 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.
Composition & Speech I and II.....	8 s.h.
Western Civilization .....	8 s.h.
College Algebra.....	4 s.h.
Trigonometry and Analytic Geometry .....	3 s.h.
Philosophy .....	3 s.h.
General Physics.....	8 s.h.
Chemistry.....	8 s.h.
Social Science Elective(s) .....	6 s.h.

## Recreation

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

Composition & Speech 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.
Developmental Psychology.....	3 s.h.
Art Appreciation.....	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:

Composition I.....	3 s.h.
Speech.....	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 web site at <http://www.drake.edu/dc/> or contact the Office of Admissions, 1-800-44-DRAKE, ext. 3181. It is recommended that NIACC students planning for transfer to Drake save their NIACC course syllabi for in-depth review for Drake curriculum outcomes fulfillment upon transfer.

## Social Work

General education includes the following courses:

Composition & Speech 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 Elective(s).....	8 s.h.
Humanities Elective(s).....	6 s.h.
Developmental Psychology.....	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

Composition & Speech I and II.....	8 s.h.
Introduction to Psychology.....	3 s.h.
Sociology.....	3 s.h.
Macroeconomics or Microeconomics.....	3 s.h.
Introduction to American Government.....	3 s.h.
Western Civilization.....	4-8 s.h.
Biological Principles & Lab.....	4 s.h.
Intermediate Algebra (or higher math).....	3-4 s.h.
Humanities.....	3-6 s.h.

## Sports Administration

### Simpson College

North Iowa Area Community College has a 2+2 articulation agreement with Simpson College that allows students completing the Associate in Science (Business) degree in Sport Management to transfer up to 64 semester hours of credit toward a Bachelor of Arts degree in Sports Administration. Students interested in this major should consult with their NIACC counselor and follow the transfer plan that is part of the articulation agreement.

## Theatre

Composition & Speech I and II.....	8 s.h.
Introduction to Theatre, Television, and Film.....	3 s.h.
Introduction to Acting.....	3 s.h.
Public Speaking.....	2 s.h.
Introduction to Poetry and Drama.....	3 s.h.
Introduction to Short Story and Novel.....	3 s.h.
World Literature 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.
Introduction to Theatre, TV, and Film.....	3 s.h.
Introduction to Acting.....	3 s.h.

Also required for Theatre Arts with Education program:

Public Speaking.....	2 s.h.
Group Discussion.....	2 s.h.
Newsriting & Reporting.....	3 s.h.

**Waldorf College**

Courses that may be taken at North Iowa Area Community College to complete major requirements. All courses taken in the major must be completed with a grade of C- or higher.

Introduction to Theatre, TV, and Film .....	3 s.h.
Introduction to Acting .....	3 s.h.
Introduction to Philosophy .....	3 s.h.
Art History I or II.....	3 s.h.

Anatomy and Physiology II .....	4 s.h.
Chemistry Principles I .....	4 s.h.
Developmental Psychology.....	3 s.h.
Introduction to Psychology.....	3 s.h.
Macroeconomics .....	3 s.h.
Principles of Accounting I.....	3 s.h.
First Aid and Personal Safety .....	1 s.h.
Health and Nutrition .....	3 s.h.
Care and Prevention of Athletic Injuries .....	2 s.h.
Kinesiology.....	3 s.h.

**Veterinary Medicine**

**Iowa State University**

(GPA is a competitive factor for admission.)

Applicants for admission to the College of Veterinary Medicine must have attended a regionally accredited college or university, have completed 40 semester credits prior to the deadline for filing an application for admission, and have completed 60 semester credits prior to the end of the spring term in which the applicant seeks to be admitted.

Credits earned must include the following:

Composition & Speech I and II* .....	8 s.h.
Chemistry Principles I and II.....	10 s.h.
Organic Chemistry I and II .....	10 s.h.
General Physics I and II .....	8 s.h.
Biology I and II.....	8 s.h.
Anatomy and Physiology .....	4 s.h.
Humanities and/or Social Sciences .....	9 s.h.

\* Must take both courses for 4 semester hour credits to meet the Public Speaking requirement.

Students could also complete additional course work for:

**SCIENCE/RESEARCH TRACK**

Chemistry Principles II .....	4 s.h.
Biology I .....	4 s.h.
Biology II .....	4 s.h.

**CHILDREN'S WELLNESS TRACK**

Including Exceptional Children .....	3 s.h.
Educational Media .....	3 s.h.

**Visual 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:

Art History I and II .....	6 s.h.
Drawing.....	3 s.h.
2-D Design.....	3 s.h.
Encounters in Humanities.....	2 s.h.
Art Appreciation.....	3 s.h.
Ceramics .....	3 s.h.
Graphic Design .....	3 s.h.
Painting I and II.....	6 s.h.
Digital Illustration.....	3 s.h.

**Wellness**

**Waldorf College**

Courses that may be taken at North Iowa Area Community College to complete major requirements. All courses taken in the major must be completed with a grade of C- or higher.

Nutrition.....	3 s.h.
Anatomy and Physiology I.....	4 s.h.

## Online Courses Leading to an Associate Degree

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

Degree Requirement	Semester Hours
<b>Communications</b>	<b>8 s.h.</b>
<i>Composition I (ENGL-104)</i>	3 s.h.
<i>Composition II (ENGL-105)</i>	3 s.h.
<i>Public Speaking (SPCH-101)</i>	2 s.h.
<b>Humanities</b>	<b>8 s.h.</b>
<i>Art History I (ARTS-104)</i>	3 s.h.
<i>Art History II (ARTS-105)</i>	3 s.h.
<i>American History to 1877 (HIST-101)</i>	3 s.h.
<i>American History 1877 to Present (HIST-102)</i>	3 s.h.
<i>Introduction to Poetry/Drama (LITS-101)</i>	
<b>Natural Sciences</b>	<b>8 s.h.</b>
<i>Biological Principles (BIOL-101)</i>	3 s.h.
<i>Nutrition (BIOL-205)</i>	3 s.h.
<i>Introduction to Chemistry (CHEM-101)</i>	4 s.h.
<i>Math for Decision Making (MATH-101)</i>	3 s.h.
<i>Introduction to Statistics (STAT-104)</i>	3 s.h.
<b>Social Science</b>	<b>8 s.h.</b>
<i>Introduction to Psychology (PSYC-101)</i>	3 s.h.
<i>Personal Finance (ECON-101)</i>	3 s.h.
<i>Macroeconomics (ECON-110)*</i>	3 s.h.
<i>Microeconomics (ECON-111)*</i>	3 s.h.
<i>Introduction to American Government (POLS-101)*</i>	3 s.h.
<i>Developmental Psychology (PSYC-110)</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>	
<i>Principles of Accounting I (ACCT-120)</i>	3 s.h.
<i>Principles of Accounting II (ACCT-121)</i>	3 s.h.
<i>Keyboarding Level I (BUSN-102)*</i>	1 s.h.
<i>Keyboarding Level II (BUSN-103)*</i>	1 s.h.
<i>Human Relations (BUSN-105)</i>	3 s.h.
<i>Business Law I (BUSN-120)</i>	3 s.h.
<i>Business Law II (BUSN-121)</i>	3 s.h.
<i>Internet Law (BUSN-122)</i>	3 s.h.
<i>Principles of Banking (BUSN-140)</i>	3 s.h.
<i>Analysis and Valuation of Stocks (BUSN-250)</i>	1 s.h.
<i>Introduction to MS Publisher (BUSN-252)</i>	1 s.h.
<i>Learn to Buy and Sell on e-Bay (BUSN-253)</i>	1 s.h.
<i>Introduction to QuickBooks (BUSN-254)</i>	1 s.h.
<i>Stocks, Bonds, and Investing (BUSN-255)</i>	1 s.h.

<b>Degree Requirement</b>	<b>Semester Hours</b>
<i>Computer Literacy (COMP-100)*</i>	1 s.h.
<i>Word Processing (COMP-105)</i>	2 s.h.
<i>Introduction to Computers and Information Systems (COMP-110)</i>	3 s.h.
<i>Management Information Systems (COMP-111)</i>	3 s.h.
<i>Microsoft Outlook (COMP-112)</i>	2 s.h.
<i>Microsoft Access (COMP-113)</i>	1 s.h.
<i>Microsoft PowerPoint (COMP-114)</i>	1 s.h.
<i>Introduction to E-Commerce (ECOM-101)</i>	3 s.h.
<i>Media Experience (ECOM-110)</i>	3 s.h.
<i>Visual Communication (ECOM-115)</i>	3 s.h.
<i>Introduction to Early Childhood Education (EDUC-125)</i>	1 s.h.
<i>Child Health, Safety, and Nutrition (EDUC-126)</i>	1 s.h.
<i>Home and School Relationships in Early Childhood (ENGL-128)</i>	1 s.h.
<i>Business Communication (ENGL-705)</i>	3 s.h.
<i>Introduction to Entrepreneurship (ENTR-101)</i>	3 s.h.
<i>Medical Terminology I (HEAL-110)</i>	3 s.h.
<i>Medical Terminology II (HEAL-111)</i>	3 s.h.
<i>General Insurance (INSS-101)</i>	3 s.h.
<i>Property and Casualty Insurance (INSS-102)</i>	3 s.h.
<i>Life, Health, and Disability Insurance (INSS-103)</i>	3 s.h.
<i>Principles of Marketing (MRKT-101)</i>	3 s.h.
<i>Career Decision Making (SDEV-106)</i>	2 s.h.
<i>Employment Strategies (SDEV-110)</i>	1 s.h.
<i>Listen to Your Heart and Success will Follow (SDEV-250)</i>	1 s.h.
<i>Speed Reading (SDEV-251)</i>	1 s.h.
<i>Cultural Anthropology (SOCS-115)</i>	3 s.h.

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