

# 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.

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

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

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## Agriculture and Agricultural Related

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

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

Since there is a wide variation in the required courses for the various curriculums 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 proficient by obtaining a C or better in written and verbal communication courses. Students completing the prescribed courses will fulfill the College of Agriculture 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.
Commodity Marketing . . . . .	2 s.h.
Intro to Ag Business . . . . .	3 s.h.

## Art

Communication Skills I & II . . . . .	8 s.h.
Art History I . . . . .	4 s.h.
Art History II . . . . .	4 s.h.
Drawing . . . . .	3 s.h.
Ceramics . . . . .	3 s.h.
Two-Dimensional Design . . . . .	3 s.h.
Computer-Aided 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.

### 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 II . . . . .	3 s.h.
Two-Dimensional Design . . . . .	3 s.h.
Painting I . . . . .	3 s.h.

### Upper Iowa University

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

Essentials of Art . . . . .	3 s.h.
Art History I & II . . . . .	8 s.h.
Drawing . . . . .	3 s.h.
Ceramics . . . . .	3 s.h.
Painting I & II . . . . .	6 s.h.
Art in Elementary School . . . . .	3 s.h.
Educational Psychology . . . . .	3 s.h.
Human Growth and Development . . . . .	3 s.h.
Educational Measurement and Evaluation . . . . .	2 s.h.
Mainstreaming the Exceptional Student . . . . .	2 s.h.
Ed Media Techniques . . . . .	3 s.h.
Intro to Teaching . . . . .	3 s.h.

## Art Education

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

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

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

**Athletic Trainer****Iowa State University**

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

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

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

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

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

**Biology and Environmental Science****Simpson College**

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

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

College Physics I and II . . . . . 8-10 s.h.

\* Human Biology does not fulfill a requirement for Biology or Environmental Science

**Business**

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

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

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

In addition, these colleges have the following specific requirements:

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

Business Law I . . . . .	3 s.h.
Principles of Management . . . . .	3 s.h.
Interm Algebra . . . . .	3 s.h.
Quantitative Methods . . . . .	3 s.h.
Marketing . . . . .	3 s.h.
Cost Accounting . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.

**MANAGEMENT/ ENTREPRENEURSHIP**

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

**FINANCE AND BANKING**

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

**MANAGEMENT INFORMATION SYSTEMS**

Interm Algebra . . . . .	3 s.h.
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Quantitative Methods . . . . .	3 s.h.
Prin of Management . . . . .	3 s.h.
Business Law I . . . . .	3 s.h.
Marketing . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.
Intro to MIS . . . . .	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.

In addition to common requirements for all institutions listed, students can complete the following courses:

Public Speaking . . . . .	2 s.h.
Lab Science or Advanced Math . . . . .	8 s.h.
American Social System (Social Sciences) . . . . .	6 s.h.
Cultural/Ethical Traditions (Humanities) . . . . .	6 s.h.
Global Perspective . . . . .	6 s.h.

Additional courses that should be completed as part of the common business curricula.

Business Law I . . . . .	3 s.h.
Calculus for Business . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.

For specific general education requirements, business majors should consult the College of Business & Public Administration transfer plan in the Drake University Articulation Agreement: a course equivalency guide and transfer plans, available at the counseling office or by contacting the Drake University Office of Admission.

### Iowa State University

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

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

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

### Minnesota State University - Mankato

ACCOUNTING	
Natural Sciences . . . . .	4 s.h.
College Algebra and Trigonometry I . . . . .	4 s.h.
Distributed Requirement (NIACC) . . . . .	8 s.h.
Business Statistics . . . . .	3 s.h.

MARKETING, MANAGEMENT, INTERNATIONAL BUSINESS, FINANCE, REAL ESTATE, AND INSURANCE	
Natural Sciences . . . . .	4 s.h.
College Algebra and Trigonometry I . . . . .	4 s.h.
Electives . . . . .	12 s.h.
Foreign Language (International Business) . . . . .	8 s.h.
(Intermediate level)	
Natural Science 140 . . . . .	3 s.h.

### Simpson College

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

#### MANAGEMENT ACCOUNTING & ECONOMICS

Intro to Business OR	
Principles of Management . . . . .	3 s.h.
Business Law I . . . . .	3 s.h.
Business Law II OR Law and Banking . . . . .	3 s.h.
General Insurance . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.
Marketing . . . . .	3 s.h.
Cost Accounting . . . . .	3 s.h.
Intro to Accounting . . . . .	3 s.h.
Accounting Principles I and II . . . . .	6 s.h.
Managing the Entrepreneurial Venture . . . . .	3 s.h.
Managing Human Resources . . . . .	3 s.h.
On-The-Job Training . . . . .	3 s.h.

### University of Iowa (2.6 GPA)

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

Apply to the College of Liberal Arts as a pre-business major after one year. Iowa will move student to business when all admission prerequisite 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.
Accounting Principles I & II . . . . .	6 s.h.
Business Law I . . . . .	3 s.h.
Global and Cultural Studies . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.

**University of Northern Iowa**  
(Min. 2.50 GPA)

<b>ACCOUNTING, FINANCE, MANAGEMENT, MARKETING</b>	
Quantitative Methods . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.
Introduction to Computers . . . . .	3 s.h.
<b>BUSINESS TEACHING MAJOR</b>	
Introduction to Teaching . . . . .	3 s.h.
Human Growth and Development . . . . .	3 s.h.
Advanced Keyboarding (recommended, not required) . . . . .	3 s.h.
Quantitative Methods . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.
Introduction to Computers . . . . .	3 s.h.
<b>MANAGEMENT INFORMATION SYSTEMS MAJOR</b>	
Quantitative Methods . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.
Introduction to MIS . . . . .	3 s.h.
Introduction to Computers . . . . .	3 s.h.

**Upper Iowa University**

**RESIDENTIAL CAMPUS**

Students should consider taking the following courses to meet requirements in the following majors. Completion of the A.A. degree at NIACC will meet the general education requirements in addition to courses common to all business curricula (page 121).

<b>MARKETING MAJOR</b>	
Business Law I . . . . .	3 s.h.
Introduction to MIS . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.
Marketing . . . . .	3 s.h.
Principles of Management . . . . .	3 s.h.
Principles of Advertising . . . . .	3 s.h.
Data Base Management . . . . .	3 s.h.
Retailing . . . . .	3 s.h.
<b>ACCOUNTING MAJOR</b>	
Business Law I . . . . .	3 s.h.
Introduction to MIS . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.
Marketing . . . . .	3 s.h.
Principles of Management . . . . .	3 s.h.
<b>MANAGEMENT MAJOR</b>	
Business Law I . . . . .	3 s.h.
Introduction to MIS . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.
Marketing . . . . .	3 s.h.
Principles of Management . . . . .	3 s.h.
Principles of Supervision . . . . .	3 s.h.
Management of Human Resources . . . . .	3 s.h.
<b>MIS MAJOR</b>	
Business Law I . . . . .	3 s.h.
Introduction to MIS . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.
Marketing . . . . .	3 s.h.
Principles of Management . . . . .	3 s.h.
Data Base Management . . . . .	3 s.h.

**Wartburg College**

<b>ACCOUNTING, FINANCE</b>	
One laboratory science . . . . .	4 s.h.
Western Civilization . . . . .	4 s.h.
Quantitative Methods . . . . .	3 s.h.
Introduction to Computers . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.
<b>MANAGEMENT, MARKETING</b>	
One laboratory science . . . . .	4 s.h.
Western Civilization . . . . .	4 s.h.
Principles of Management . . . . .	3 s.h.
Marketing . . . . .	3 s.h.
Business Law I . . . . .	3 s.h.
Quantitative Methods . . . . .	3 s.h.
Introduction to Computers . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.
<b>INTERNATIONAL BUSINESS</b>	
One laboratory science . . . . .	4 s.h.
Western Civilization . . . . .	4 s.h.
French, German, or Spanish (through the intermediate level) . . . . .	8-16 s.h.
Quantitative Methods . . . . .	3 s.h.
Introduction to Computers . . . . .	3 s.h.
Business Statistics . . . . .	3 s.h.

**Chiropractic**

**Palmer (Min. GPA 2.50)**

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

**Coaching**

**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.

## Computer Science

### Drake University

#### COMPUTER SCIENCE

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

Calculus I and II . . . . .	8 s.h.
Fortran . . . . .	3 s.h.

Computer Science majors should consult the Arts & Sciences transfer plan for general education requirements in the Drake University Articulation Agreement: a course equivalency guide and transfer plans, available at the counseling office or by contacting the Drake University Office of Admission.

#### INFORMATION SYSTEMS

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

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

\*Only one computer language course is required for Information Systems majors. One or the other will meet the requirement.

Information Systems majors should consult the College of Business and Public Administration transfer plan for general education requirements in the Drake University Articulation Agreement: a course equivalency guide and transfer plans, available at the counseling office or by contacting the Drake University Office of Admission.

### Iowa State University

#### COMPUTER SCIENCE

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

Communication Skills I & II. . . . .	8 s.h.
Calculus I & II . . . . .	8 s.h.
College Physics I & II . . . . .	10 s.h.

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

### Minnesota State University - Mankato

#### COMPUTER SCIENCE

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

Communication Skills I & II. . . . .	8 s.h.
Calculus I & II (CS only) . . . . .	8 s.h.
Natural Science 140. . . . .	3 s.h.
Chemistry Principles I & II (CS only) OR College Physics I & II (CS only) . . . . .	8-10 s.h.

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

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

Analytical Geometry and Calc I and II . . . . .	8 s.h.
Intro to Statistics . . . . .	3 s.h.
Fortran . . . . .	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:

Calculus I and Intro to Statistics . . . . .	8 s.h.
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#### B.S. Degree:

Calculus I and II . . . . .	8 s.h.
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Complete additional courses to satisfy A.A. Degree requirements at North Iowa Area Community College.

#### COMPUTER INFORMATION SYSTEMS

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

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

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

## Conservation

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

## Conservation Management

### Upper Iowa University

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

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

Biology I and II . . . . .	8 s.h.
Microbiology . . . . .	4 s.h.
Chemistry Principles I and II. . . . .	10 s.h.
College Physics I and II . . . . .	10 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 94 semester hours of work. Preference for admission is given to students who have completed a standard baccalaureate degree or who are pursuing a combined program in which they will earn the baccalaureate degree while completing the freshman year in dentistry. The academic work would include the courses listed below which are attainable at North Iowa Area Community College:

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

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

All students are required to take the Dental Admission Test on or before October 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.

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 Essentials of Art or Intro to Theater OR Art History . . . . .	3 s.h.
Physical Science OR Intro to Chemistry . . . . .	4 s.h.
Biology . . . . .	3 s.h.
Communication Skills I & II . . . . .	8 s.h.
General Psychology . . . . .	3 s.h.
Mathematics for Elementary Teachers . . . . .	3 s.h.
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.

1. Specialization in single discipline of 12 hours (not duplicated elsewhere).
2. Application form for admission to teacher education program must be completed.
3. A GPA of 2.50 is required to be able to student teach.
4. Skills proficiency in math and written communications. (Exams must be passed before eligible for field experience.)
5. All Incompletes must be completed before eligible to student teach.
6. Communication Skills I & II (8 s.h.) waives public speaking requirement.

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

#### SECONDARY EDUCATION

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

1. Secondary Education requires major in content area.
2. Application form for admission to teacher education program must be completed.
3. A GPA of 2.50 is required to student teach.

4. Skills proficiency in math and written communications necessary. (Exams must be passed prior to eligibility for field experience.)
5. All Incompletes must be completed prior to beginning student teaching.
6. 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 2.5 at 60 semester hours of credit. Both Elementary and Secondary Education majors complete the following courses:

- Communication Skills I and II . . . . . 8 s.h.
- Mathematics for Elementary Teachers (secondary only). . . . . 3 s.h.
- American History OR
- American Government . . . . . 3 s.h.
- Philosophy . . . . . 3 s.h.
- Public Speaking . . . . . 2 s.h.
- American Social Systems \* . . . . 9 s.h. from 2 areas
- Global Perspective & Hum \* . . . . 9 s.h. from 2 areas
- Science Perspective \* . . . . 10 s.h. from 2 areas, 1 lab
- Intro to Teaching . . . . . 3 s.h.

\*For specific general education requirements, prospective students should consult the School of Education transfer plan in the Drake University Articulation Agreement: a course equivalency guide and transfer plans, available at the counseling office or by contacting the Drake Office of Admission. Suggested NIACC courses for teaching endorsement requirements are also listed.

**Iowa State University**

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

**ELEMENTARY EDUCATION**

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

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

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

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

**Minnesota State University - Mankato****SECONDARY EDUCATION (High School Teaching)**

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

**ELEMENTARY EDUCATION**

The following courses at North Iowa Area Community College will satisfy requirements for elementary education at Minnesota State University - Mankato:

Communication Skills I and II OR	
Communication Skills I and	
Public Speaking . . . . .	6-8 s.h.
Humanities (chosen from two of the	
following areas: Literature, Music, Theater) . . . . .	9 s.h.
Two-Dimensional Design I . . . . .	3 s.h.
Drugs and Alcohol . . . . .	3 s.h.
Children's Literature . . . . .	3 s.h.
Social Studies (any social studies listed in	
the catalog from at least three disciplines) . . . . .	9 s.h.
Biological Principles . . . . .	4 s.h.
Mathematics for Decision Making OR	
Mathematics for Elementary Teachers . . . . .	3 s.h.
General Psychology . . . . .	3 s.h.
Principles of Physics . . . . .	4 s.h.
Introduction to Philosophy . . . . .	3 s.h.
Regional Geography of the	
Developed World . . . . .	3 s.h.
American History . . . . .	3 s.h.

Additional hours may be selected in major areas of concentration.

A 2.5 overall GPA is required for admission to professional education.

The Preprofessional Skills Test (PPST) must be completed and on file at MSU before a student is allowed to take a professional education course. If the test is not completed and on file, a student will not be able to complete the elementary education degree in two years.

**Simpson College**

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

**EDUCATION**

Intro to Teaching . . . . .	3 s.h.
Children's Literature . . . . .	3 s.h.
Human Growth and Development . . . . .	3 s.h.

**University of Iowa****EDUCATION**

Students planning to transfer into the College of Education at The University of Iowa need a minimum of a 2.70 cumulative GPA and at least 30 semester hours of credit. Admission is competitive and is based on an achievement profile which includes: GPA; ACT English, math, and composite scores; experience; references; and a personal statement.

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

**ELEMENTARY EDUCATION**

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

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

**SECONDARY EDUCATION**

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

**University of Northern Iowa**

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

**ELEMENTARY EDUCATION**

Elementary Education \* K-6 should consider:

Art in the Elementary School . . . . .	3 s.h.
Communication Skills I and II . . . . .	8 s.h.
Children's Literature . . . . .	3 s.h.
Mathematics for Elementary Teachers . . . . .	3 s.h.
Biology and Physical Science . . . . .	8 s.h.
One course in Life Science and one in Physical	
Science (at least one must have a lab)	
Child Psychology	
(recommended, not required) . . . . .	3 s.h.
Human Growth and Development . . . . .	3 s.h.
Introduction to Teaching . . . . .	3 s.h.
Ed Media/Classroom Computer Techniques . . . . .	3 s.h.
Educational Psychology . . . . .	3 s.h.
Ed Measurement and Evaluation . . . . .	2 s.h.
Mainstreaming the Exceptional Student . . . . .	2 s.h.

**EARLY CHILDHOOD EDUCATION**

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

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

**INTEGRATED TECHNOLOGY EDUCATION**

Integrated Technology Education majors should consider:

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

**SPECIAL EDUCATION**

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

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

**SECONDARY EDUCATION**

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

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

Available course work in major and/or minor.

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

**Wartburg College**

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

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

**ELEMENTARY EDUCATION**

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

**SECONDARY EDUCATION**

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

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

**Other Colleges and Universities**

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

**Engineering****Iowa State University**

The basic programs for all professional curricula of the College of Engineering are similar, and thus a student may transfer from one department to another within the college without undue loss of time. There are some differences; hence, the student who desires to complete work in minimum time will find it desirable to select a major department as soon as possible. The basic program includes both the following list of courses shared in common and requirements for individual 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:

Communication Skills I and II . . . . .	8 s.h.
Calculus . . . . .	12 s.h.
Differential Equations . . . . .	3 s.h.
Chemistry Principles OR . . . . .	5 s.h.
General Chemistry I and II . . . . .	10 s.h.
College Physics . . . . .	10 s.h.
Orientation to Engineering . . . . .	0 s.h.
Engineering Graphics I and II . . . . .	4 s.h.
Engineering Problems . . . . .	1 s.h.
Statics of Engineering . . . . .	3 s.h.
Fortran . . . . .	3 s.h.
Socio-Humanistic electives . . . . .	16-18 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.

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

Communication Skills I	3 s.h.
Calculus	12 s.h.
Engineering Graphics I and II	4 s.h.
Statics of Engineering	3 s.h.
Chemistry Principles OR General Chemistry I	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.

**University of Iowa**

The following Engineering curricula are offered at the University of Iowa:

- Biomedical Engineering
- Chemical and Biochemical Engineering
- Civil and Environmental Engineering
- Electrical and Computer Engineering
- Industrial Engineering
- Mechanical Engineering

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

Communication Skills	8 s.h.
Calculus	8 s.h.
Differential Equations	3 s.h.
Chemistry Principles	5 s.h.
College Physics	10 s.h.
Orientation to Engineering	0 s.h.
Engineering Graphics I and II	4 s.h.
Engineering Problems	1 s.h.
Social Sciences/Humanities	9 s.h.
Statics of Engineering	3 s.h.
Fortran	3 s.h.

Students transferring directly to the College of Engineering need to have completed at least one semester of Chemistry Principles with a C or higher and one semester of calculus with a B or higher. Transfer students need a minimum of 2.75 to be considered for admission.

**Environmental Science & Policy****Drake University**

An interdisciplinary program, this 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:

Communication Skills I and II	8 s.h.
Mathematics	3 s.h.
Western Civilization I and II	6 s.h.
American Social System	6 s.h.
Western Arts and Humanities	6 s.h.
Global Perspective	6 s.h.
Scientific Perspective	8 s.h.

For specific general education requirements, prospective students in this major should follow the College of Arts and Sciences transfer plan in the Drake University Articulation Agreement: a course equivalency guide and transfer plans, available at the counseling office or by contacting the Drake Office of Admission. For more information about other applicable NIACC courses, contact the Office of Admissions at Drake University.

**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.

## Home Economics

### University of Northern Iowa

#### INTERIOR DESIGN

Introduction to Computers . . . . .	3 s.h.
Macroeconomics . . . . .	3 s.h.
Accounting Principles I . . . . .	3 s.h.

#### DIETETICS

Accounting Principles I . . . . .	3 s.h.
Microbiology . . . . .	4 s.h.
General Chemistry I & II . . . . .	10 s.h.
Organic Chemistry I & II . . . . .	10 s.h.

(70:274 & 70:275)

#### TEXTILES and APPAREL

Macroeconomics . . . . .	3 s.h.
Accounting Principles I . . . . .	3 s.h.
Marketing - Elective . . . . .	3 s.h.
Intro to Computers . . . . .	3 s.h.

### Iowa State University

#### FAMILY AND CONSUMER SCIENCES EDUCATION

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

Communication Skills I and II . . . . .	8 s.h.
Western Civilization I and II . . . . .	8 s.h.
Psychology . . . . .	3 s.h.
Human Growth and Development . . . . .	3 s.h.
Sociology . . . . .	3 s.h.
Economics . . . . .	3 s.h.
Inorganic Chemistry . . . . .	10 s.h.
Organic Chemistry (add for certification)* . . . . .	4 s.h.
Biological Principles . . . . .	4 s.h.
Introduction to Education . . . . .	3 s.h.
Essentials of Art . . . . .	3 s.h.
Physical Education . . . . .	2 s.h.
Nutrition . . . . .	3 s.h.
American History . . . . .	3 s.h.
American Government . . . . .	3 s.h.
Educational Psychology . . . . .	3 s.h.

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

## Human Services

### Buena Vista University

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

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

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

### Upper Iowa University

#### RESIDENTIAL CAMPUS

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

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

## Industrial Technology

Iowa State University /  
University of Northern Iowa

NIACC's Electronics Technology (page 102) and Mechanical Design Technology (page 109) are articulated with Iowa State University's Department of Industrial Education and Technology and the University of Northern Iowa's Department of Industrial Technology. The programs, with appropriate option, meet requirements for a bachelor of science degree in Industrial Technology with Manufacturing option at ISU and a bachelor of science degree in Electromechanical Systems, General Industry and Technology, or Manufacturing Technology at UNI.

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

While enrolled in the Electronics Technology or Mechanical Design Technology Programs, the following course options may be taken to maximize transfer effectiveness.

### ELECTRONICS TECHNOLOGY

ISU - Industrial Technology - Manufacturing Option

UNI - Electromechanical Systems Major

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

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

\* Listed in Articulation (p. xx)

### MECHANICAL DESIGN TECHNOLOGY

ISU - Industrial Technology - Manufacturing Option

UNI -1. General Industry and Technology Major

2. Manufacturing Technology Major

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

\* Listed in Articulation (p. xx)

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

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

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

Accounting Principles I . . . . .	3 s.h.
Intro to Computers . . . . .	3 s.h.
General Physics I . . . . .	4 s.h.
General Physics II . . . . .	4 s.h.
Quantitative Methods . . . . .	3 s.h.
Calculus for Business. . . . .	3 s.h.

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

**INDUSTRIAL SUPERVISION AND MANAGEMENT OPTION**

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

**ENGINEERING TECHNOLOGY OPTION**

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

**GENERAL INDUSTRY and TECHNOLOGY**  
(Bachelor of Arts)

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

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

Calculus I . . . . .	8 s.h.
General Physics I AND College Physics I . . . . .	8-10 s.h.
Fortran . . . . .	3 s.h.
Introduction to Statistics . . . . .	3 s.h.

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

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

## Information Systems Technology

### Upper Iowa University

IST Major Courses . . . . .	35-36 s.h.
Communication Skills I, II . . . . .	8 s.h.
Ethics . . . . .	3 s.h.
Macroeconomics . . . . .	3 s.h.
Microeconomics . . . . .	3 s.h.
Introduction to MIS . . . . .	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-Editorial, Magazines.

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

Communication Skills I . . . . .	4 s.h.
Language/Comm Skills * (from two areas) . . . . .	9 s.h.
American Government . . . . .	3 s.h.
Macro or Microeconomics . . . . .	3 s.h.
Sociology . . . . .	3 s.h.
Social Science Electives * . . . . .	6 s.h.
Natural Sciences & Mathematics * (from two areas, including one lab) . . . . .	12 s.h.
Humanities * (from two areas) . . . . .	12 s.h.
Introduction to Journalism . . . . .	3 s.h.
News Writing and Reporting . . . . .	3 s.h.

\* For specific general education requirements, prospective Journalism students should consult the School of Journalism & Mass Communication transfer plan in the Drake University Articulation Agreement: a course equivalency guide and transfer plans, available at the counseling office or by contacting the Drake Office of Admission.

### Iowa State University

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

**University of Iowa**

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

- Principles of Economics . . . . . 6 s.h.
- Psychology . . . . . 3 s.h.
- Foreign Language (fourth level) . . . . . 0-16 s.h.
- Government . . . . . 3 s.h.
- Sociology . . . . . 3 s.h.
- Introduction to Journalism . . . . . 3 s.h.
- 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. Drake offers a pre-law program of study which is adaptable to the requirements of any designated major, as well as a new interdisciplinary major in Law, Politics & Society.

In conjunction with the appropriate Drake Transfer Planning Guide, prospective students may include the following courses in their North Iowa Area Community College program of study:

- Communication Skills I & II . . . . . 8 s.h.
- Speech . . . . . 2 s.h.
- College Algebra OR Analytic Geometry and . . . . .
- Calculus I . . . . . 4 s.h.
- Foreign Language . . . . . 0-16 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 . . . . . 4 s.h.

For specific general education requirements, prospective students should consult the transfer plan appropriate to the desired major in any college or school in the Drake University Articulation Agreement: a course equivalency guide and transfer plans, available at the counseling office or by contacting the Drake University Office of Admission.

**University of Iowa**

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

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

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

**Liberal Arts/Undecided**

Associate in Arts--purpose of the degree includes:

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

Requirements for the degree follow:

1. Completion of sixty (60) semester hours of work consisting of courses in which the principal design is for a baccalaureate program.
2. One half of the required semester hours must be completed in residence at North Iowa Area Community College including 15 of the last 30 semester hours.
3. A minimum cumulative grade point average of 2.00 (C). Includes transfer work from other institutions.
4. Completion of the following general education core with a minimum of 40 semester hours.
  - a. Communications . . . . . 8 s.h.  
This requirement can be satisfied by baccalaureate-oriented communications or speech courses with a minimum of two courses in English composition.
  - b. Social Sciences . . . . . 8 s.h.
  - c. Humanities . . . . . 8 s.h.
  - d. Natural Sciences . . . . . 8 s.h.  
Must include one math and one science course
  - e. Distributed Requirement . . . . . 8 s.h.  
To be taken from among the four divisions above.

## Medical Technology (Clinical Lab Science)

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

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

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

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

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

## Mortuary Science

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

Recommended courses:

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

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

### Simpson College

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

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

## Nursing

### Drake University

#### R.N. TO M.S.N. PROGRAM

Students interested in this program should contact the Drake Department of Nursing or the Office of Graduate Admissions at Drake University for more information. Tracks in the M.S.N. program include Nurse Educator, Family Nurse Practitioner, and Health Systems Management.

**University of Iowa****BACHELOR OF SCIENCE IN NURSING (B.S.N.) DEGREE**  
(at Iowa City)

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

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

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

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

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

**BACHELOR OF SCIENCE IN NURSING (B.S.N.) DEGREE****R.N. TO B.S.N. PROGRESSION PROGRAM**  
(at North Iowa Area Community College)

The University of Iowa College of Nursing offers its NLN-accredited R.N.-B.S.N. Progression Program at several distant sites in Iowa, including NIACC. All course work can be completed locally. This program is designed for Iowa licensed, diploma and associate degree registered nurses who desire a B.S.N. 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, and communication 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 B.S.N. upon graduation from the NIACC A.D.N. Program.

Most students may enroll in supporting and general education courses at NIACC and are strongly encouraged to seek early advising with the R.N.-B.S.N. Faculty Facilitator. For further information contact the R.N.-B.S.N. Program office in Iowa City at 1-800-553-4692, ext. 7020, or the R.N.-B.S.N. Faculty Facilitator located on the NIACC campus at 1(888)466-4222, ext. 4338.

**Occupational Therapy****St. Ambrose University**

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

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

— Students must achieve and maintain a minimum 2.5 GPA.

— Students should apply for admission to St. Ambrose as soon as they begin their third semester at NIACC.

— As soon as students are enrolled at St. Ambrose, they should apply for Occupational Therapy.

— Students must be able to document experience in an occupational therapy setting of at least 20 clock hours.

— There is no guarantee regarding admission.

**Optometry**

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

Communication Skills I and II . . . . .	8 s.h.
Biology I and II . . . . .	8 s.h.
Physics . . . . .	8 s.h.
Inorganic Chemistry . . . . .	10 s.h.
Psychology . . . . .	3 s.h.
Humanities Electives . . . . .	6 s.h.
Social Science Elective . . . . .	3 s.h.
Organic Chemistry . . . . .	4-10 s.h.
Microbiology . . . . .	4 s.h.
Anatomy and Physiology I and II . . . . .	8 s.h.
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 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 2.50 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. 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. 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 for the fall 1999 term will begin in the fall of 1998; notification of admission will begin February 1 and continue until all seats have been filled. Please contact a Drake admission counselor for more detailed information.

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. Admission to the professional Pharm.D. program in the spring term is not available.

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

Communication Skills I & II . . . . .	8 s.h.
Chemistry Principles I & II . . . . .	10 s.h.
Biological Principles I & II . . . . .	8 s.h.
Microbiology . . . . .	4 s.h.
Calculus I . . . . .	4 s.h.
Statistics . . . . .	3 s.h.
Organic Chemistry I & II . . . . .	10 s.h.
Intro to Computers . . . . .	3 s.h.
Social Sciences Electives . . . . .	9 s.h.
Humanities Electives . . . . .	9 s.h.

For specific general education requirements, prospective pharmacy students should consult the College of Pharmacy and Health Sciences transfer plan in the Drake University Articulation Agreement: a course equivalency guide and transfer plans, available at the counseling office or by contacting the Drake Office of Admission.

### University of Iowa

A student may attend North Iowa Area Community College for a year of pre-pharmacy.

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

#### First Year:

Biology I and II . . . . .	8 s.h.
Communication Skills I and II . . . . .	8 s.h.
Chemistry Principles I and II . . . . .	10 s.h.
Calculus I . . . . .	4 s.h.
*General Physics . . . . .	8 s.h.
**General Education Electives . . . . .	6 s.h.

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

\*\*A minimum of 6 s.h. of general education electives required for admission. Total of 20 s.h. required for graduation.

## Physical Education

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

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

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

### Iowa State University

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

#### GENERAL EDUCATION

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

**TEACHER LICENSURE**

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

**EXERCISE SCIENCE**

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

**ATHLETIC TRAINING**

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

**SPORT MANAGEMENT**

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

**Simpson College**

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

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

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

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

**FITNESS MAJOR**

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

**SPORTS SCIENCE MAJOR**

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

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

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

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

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

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

Prior to entrance into medical school, each applicant must:

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

The completion of a four-year baccalaureate degree in a liberal arts college is strongly recommended, and students having a bachelor's degree will be given preference. However, a student may apply for admission to the College of Medicine upon the completion of 94 semester hours of work in a college of liberal arts with an overall grade point average of 2.5. Approximately two-thirds of these hours may be met by taking the courses listed below at North Iowa Area Community College. The Medical College Admissions Test (MCAT) will need to be taken.

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

General education to complete associate in arts degree.

## Physician Assistant

### University of Iowa

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

General education electives to complete associate in arts degree.

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

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

## Political Science/Criminal Justice

### Buena Vista University

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

Intro to American Government . . . . .	3 s.h.
Criminal Evidence (as support work) . . . . .	3 s.h.
Administration of Justice (as support work) . . . . .	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.

## Psychology

Quantitative Methods or Algebra and Trigonometry I . . . . .	3-4 s.h.
General Psychology . . . . .	3 s.h.
Educational Psychology . . . . .	3 s.h.
Child Psychology . . . . .	3 s.h.
Human Growth and Development . . . . .	3 s.h.
Communication Skills I and II . . . . .	8 s.h.
Humanities Electives . . . . .	6 s.h.
Sociology . . . . .	3 s.h.
Marriage and Family. . . . .	3 s.h.
Biological Principles . . . . .	4 s.h.

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

### Buena Vista University

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

General Psychology . . . . .	3 s.h.
Human Growth & Development . . . . .	3 s.h.
Child Psychology (as an elective) . . . . .	3 s.h.
Educational Psychology (as an elective) . . . . .	3 s.h.
Interm Algebra . . . . .	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 which may be taken at North Iowa Area Community College to meet major requirements at Simpson College:

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

Complete additional courses to satisfy A.A. degree.

### Upper Iowa University

#### RESIDENTIAL CAMPUS

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

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

## Public Relations

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

## Radiology

(Four-Year Degree)

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

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

## Recreation

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

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

## Rehabilitation Services

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.

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

Communication Skills I and II . . . . .	8 s.h.
Mathematics . . . . .	3 s.h.
Western Civilization I and II . . . . .	6 s.h.
American Social System . . . . .	6 s.h.
Western Arts and Humanities . . . . .	6 s.h.
Global Perspective . . . . .	6 s.h.
Scientific Perspective . . . . .	8 s.h.

For specific general education requirements, prospective Rehabilitation Services students should follow the College of Arts and Sciences transfer plan in the Drake University Articulation Agreement: a course equivalency guide and transfer plans, available at the counseling office or by contacting the Drake Office of Admission. For more information about other applicable NIACC courses, contact the Office of Admission at Drake University.

## Social Work

General education includes the following courses:

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

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

### Wartburg College

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

## Sport Management

Iowa State University

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

## Sports Science

Upper Iowa University

RESIDENTIAL CAMPUS

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

General Chemistry I and II . . . . .	6 s.h.
Nutrition . . . . .	3 s.h.
Anatomy and Physiology I . . . . .	3 s.h.
Kinesiology . . . . .	3 s.h.
General Physics . . . . .	4 s.h.
Organic Chemistry I . . . . .	5 s.h.
Intro to Statistics . . . . .	3 s.h.

## Theatre

Communication Skills I and II . . . . .	8 s.h.
Introduction to Theatre, Television, and Film . . . . .	3 s.h.
Introduction to Acting . . . . .	3 s.h.
Stagecraft . . . . .	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.
Intro to Theatre/TV/Film . . . . .	3 s.h.
Stagecraft . . . . .	3 s.h.
Intro 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.

## 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:

Communication Skills 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.
Genetics . . . . .	4 s.h.
Humanities and/or Social Sciences . . . . .	9 s.h.

**GENERAL EDUCATION AND COURSE CATEGORIES**

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

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

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

- \* To earn an **Associate in Arts** degree, a student must complete a minimum of 8 semester hours (s.h.) of credit in each of the communication, humanities, social science, and natural science distribution categories listed below plus an additional 8 s.h. of credit selected from any of the aforementioned categories for a total minimum of 40 s.h. of general education credit within the degree program.
- \* To earn an **Associate in Science** degree, a student must complete a minimum general education core of 37 s.h. distributed in the following fashion: communications (8 s.h.); humanities and/or social science (9 s.h.); and natural science (20 s.h.). Within the natural science category, a student must select at least one mathematics and one science course.
- \* To earn an **Associate in Science in Business** degree, a student must complete a minimum general education core of 20 s.h. distributed in the following fashion; communications (8 s.h.); humanities and/or social science (9 s.h.); and natural science (3 s.h.).

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

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

**COMMUNICATIONS**

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

**HUMANITIES**

10:100	Encounters in Humanities	2 s.h.
10:101	Essentials of Art	3 s.h.
10:102	Art History I	4 s.h.
10:103	Art History II	4 s.h.
10:120	Drawing	3 s.h.
10:130	Ceramics	3 s.h.
10:150	Creative Photography	3 s.h.
10:151	Intermediate Creative Photography	3 s.h.
10:201	Two-Dimensional Design	3 s.h.
10:202	Computer-Aided Graphic Design	3 s.h.
10:210	Painting I	3 s.h.
10:211	Painting II	3 s.h.
10:220	Computer-Aided Images	3 s.h.
30:110	Oral Interpretation of Literature	3 s.h.
30:111	Introduction to Poetry/Drama	3 s.h.
30:112	Introduction to Short Story/Novel	3 s.h.
30:121	Introduction to Journalism	3 s.h.
30:122	News Writing and Reporting	3 s.h.
30:201	World Literature I	3 s.h.
30:202	World Literature II	3 s.h.
30:203	Minority Literature: African/American	3 s.h.
30:205	Creative Writing	3 s.h.
30:210	Children's Literature	3 s.h.
35:101	Beginning French I	4 s.h.
35:102	Beginning French II	4 s.h.
35:110	Beginning Spanish I	4 s.h.
35:111	Beginning Spanish II	4 s.h.
35:120	Beginning German I	4 s.h.
35:121	Beginning German II	4 s.h.
35:201	Intermediate French I	4 s.h.
35:202	Intermediate French II	4 s.h.
35:211	Intermediate Spanish I	4 s.h.
35:212	Intermediate Spanish II	4 s.h.
35:220	Intermediate German I	4 s.h.
35:221	Intermediate German II	4 s.h.
35:260	Advanced Spanish I	1-3 s.h.
35:261	Advanced Spanish II	1-3 s.h.
50:113	Exploring Music	3 s.h.
50:121	Music Theory I	4 s.h.
50:122	Music Theory II	4 s.h.
50:123	Music Theory III	4 s.h.

50:124	Music Theory IV	4 s.h.
50:	Applied Music-Piano	1-2 s.h.
50:	Applied Music-Voice	1-2 s.h.
50:	Applied Music-Instrumental	1-2 s.h.
50:	Beginning Piano	1 s.h.
50:133	Concert Chorus	1 s.h.
50:134	Concert Chorus	1 s.h.
50:233	Concert Chorus	1 s.h.
50:234	Concert Chorus	1 s.h.
50:135	Band	1 s.h.
50:136	Band	1 s.h.
50:235	Band	1 s.h.
50:236	Band	1 s.h.
50:141	Jazz Band	1 s.h.
50:142	Jazz Band	1 s.h.
50:241	Jazz Band	1 s.h.
50:242	Jazz Band	1 s.h.
50:145	Pep Band	½ s.h.
50:146	Pep Band	½ s.h.
50:245	Pep Band	½ s.h.
50:246	Pep Band	½ s.h.
50:137	Orchestra	1 s.h.
50:138	Orchestra	1 s.h.
50:237	Orchestra	1 s.h.
50:238	Orchestra	1 s.h.
50:	Chamber Ensemble	½ s.h.
50:143	Voice Ensemble (NIACC Singers)	1 s.h.
50:144	Voice Ensemble (NIACC Singers)	1 s.h.
50:243	Voice Ensemble (NIACC Singers)	1 s.h.
50:244	Voice Ensemble (NIACC Singers)	1 s.h.
80:140	American History to 1877	3 s.h.
80:141	American History 1877 to Present	3 s.h.
80:160	Cultural Anthropology	3 s.h.
80:201	Western Civilization to 1648	4 s.h.
80:202	Western Civilization from 1648 to Present	4 s.h.
80:210	Introduction to Philosophy	3 s.h.
80:212	Ethics	3 s.h.
85:150	Introduction to Theater, TV, and Film	3 s.h.
85:160	Stagecraft	3 s.h.
85:170	Intro to Acting	3 s.h.

## NATURAL SCIENCES

40:121	Mathematics for Decision Making	3 s.h.
40:122	Mathematics for Elementary Teachers	3 s.h.
40:125	Quantitative Methods	3 s.h.
40:140	Intro to Statistics	3 s.h.
40:151	College Algebra and Trigonometry I	4 s.h.
40:152	College Algebra and Trigonometry II	4 s.h.
40:161	Precalculus	4 s.h.
40:170	Fortran	3 s.h.
40:240	Calculus for Business	3 s.h.
40:251	Analytic Geometry and Calculus I	4 s.h.
40:252	Analytic Geometry and Calculus II	4 s.h.
40:253	Analytic Geometry and Calculus III	4 s.h.
40:261	Differential Equations	3 s.h.
70:100	Introduction to Laboratory Science	2 s.h.
70:101	Biological Principles	3 s.h.
70:102L	Biological Principles Lab I	1 s.h.
70:104	Environmental Science	3 s.h.
70:105	Biology I	4 s.h.

70:108	Biology II	4 s.h.
70:109	Microbiology	4 s.h.
70:110	Health and Nutrition	3 s.h.
70:111	Human Biology	4 s.h.
70:112	Animal Science	3 s.h.
70:114	Intro to Physical Science	4 s.h.
70:122	Principles of Physics	4 s.h.
70:135	General Chemistry I	5 s.h.
70:136	General Chemistry II	5 s.h.
70:137	Chemistry Principles I	5 s.h.
70:138	Chemistry Principles II	5 s.h.
70:140	Introductory Chemistry	4 s.h.
70:149	Kinesiology	3 s.h.
70:161	Genetics	4 s.h.
70:182	Astronomy	3 s.h.
70:200	Nutrition	3 s.h.
70:212	Animal Science	3 s.h.
70:249	Urinalysis I	3 s.h.
70:250	Anatomy and Physiology I	4 s.h.
70:251	Anatomy and Physiology II	4 s.h.
70:260	Quantitative Analysis	4 s.h.
70:272	Fundamentals of Organic Chemistry	3 s.h.
70:273	Organic Chemistry	4 s.h.
70:274	Organic Chemistry I	5 s.h.
70:275	Organic Chemistry II	5 s.h.
70:280	General Physics I	4 s.h.
70:281	General Physics II	4 s.h.
70:282	College Physics I	5 s.h.
70:283	College Physics II	5 s.h.

## SOCIAL SCIENCES

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

## BUSINESS

15:101	Intro to Business	3 s.h.
15:107	Keyboarding for Office Technology	3 s.h.
15:109	Introduction to Accounting	3 s.h.
15:110	Electronic Calculators	1 s.h.
15:112	Keyboarding Level I	1 s.h.
15:113	Keyboarding Level II	1 s.h.
15:114	Computer Literacy	1 s.h.
15:118	Accounting Procedures	3 s.h.
15:119	Accounting Applications	5 s.h.

15:120 Business Law I.....	3 s.h.	15:299C Special Problems in Business.....	3 s.h.
15:121 Business Law II.....	3 s.h.	<b>ELECTIVES</b>	
15:122 Legal Office Procedures.....	5 s.h.	10:112 Art in the Elementary School.....	3 s.h.
15:134 Computer Applications.....	3 s.h.	20:101 Intro to Teaching.....	3 s.h.
15:140 Intro to Computers and Information Systems.....	3 s.h.	20:110 Educational Measurement and Eval.....	2 s.h.
15:141 Intro to MIS.....	3 s.h.	20:120 Mainstreaming the Exceptional Student.....	2 s.h.
15:142 Principles of Management.....	3 s.h.	20:195 Ed Media & Classroom Comp Tech.....	3 s.h.
15:144 Principles of Supervision.....	3 s.h.	25:101 Engineering Graphics I.....	2 s.h.
15:146 Contemporary Supervision.....	3 s.h.	25:102 Engineering Graphics II.....	2 s.h.
15:149 Managing Human Resources.....	3 s.h.	25:110 Orientation to Engineering.....	0 s.h.
15:150 Accounting Principles I.....	3 s.h.	25:120 Engineering Problems.....	1 s.h.
15:151 Accounting Principles II.....	3 s.h.	25:231 Statics of Engineering.....	3 s.h.
15:155 Payroll Accounting.....	3 s.h.	30:113 LOGOS.....	1 s.h.
15:156 Networking I.....	3 s.h.	30:120 College Reading Skills.....	3 s.h.
15:157 Networking II.....	4 s.h.	40:120 Intermediate Algebra.....	3 s.h.
15:158 Networking III.....	4 s.h.	50:120 Intro Music Theory.....	2 s.h.
15:159 Networking IV.....	3 s.h.	60:112 Scuba.....	1 s.h.
15:161 Introduction to Operating Systems.....	3 s.h.	60:113 Physical Fitness.....	1 s.h.
15:160 Computer Accounting.....	3 s.h.	60:114 Physical Fitness Lab.....	1 s.h.
15:162 Network Operating Systems.....	4 s.h.	60:115 Games and Officiating I.....	2 s.h.
15:163 Network Operating Systems II.....	4 s.h.	60:116 Games and Officiating II.....	2 s.h.
15:164 Groupware Applications.....	4 s.h.	60:117 Intro to Physical Education.....	2 s.h.
15:165 Groupware Applications II.....	4 s.h.	60:118 Care and Prevention of Athletic Injuries.....	2 s.h.
15:166 Inter/Intranet Application Management.....	4 s.h.	60:120 Baseball (Intercollegiate).....	1 s.h.
15:167 Network Security.....	3 s.h.	60:220 Baseball (Intercollegiate).....	1 s.h.
15:168 Introduction to Programming.....	4 s.h.	60:121 Basketball (Intercollegiate).....	1 s.h.
15:169 Media Experience.....	3 s.h.	60:221 Basketball (Intercollegiate).....	1 s.h.
15:170 Principles of Banking.....	3 s.h.	60:122 Football (Intercollegiate).....	1 s.h.
15:171 Introduction to Entrepreneurship.....	3 s.h.	60:222 Football (Intercollegiate).....	1 s.h.
15:172 Managing the Entrepreneurial Venture.....	3 s.h.	60:123 Golf (Intercollegiate).....	1 s.h.
15:173 Seminar in Entrepreneurship.....	3 s.h.	60:223 Golf (Intercollegiate).....	1 s.h.
15:174 Data Base Management.....	3 s.h.	60:127 Softball (Intercollegiate).....	1 s.h.
15:175 Electronic Spreadsheets.....	3 s.h.	60:227 Softball (Intercollegiate).....	1 s.h.
15:176 Advanced Desktop Applications.....	3 s.h.	60:128 Volleyball (Intercollegiate).....	1 s.h.
15:177 Advanced Operating Systems.....	4 s.h.	60:228 Volleyball (Intercollegiate).....	1 s.h.
15:178 Hardware Service and Support.....	4 s.h.	60:141 Cross-Country Skiing.....	½ s.h.
15:190 General Insurance.....	3 s.h.	60:142 Intro to Boating, Camping, Fishing.....	½ s.h.
15:195 Property/Casualty Insurance.....	3 s.h.	60:150 Theory of Coaching Interscholastic Athletics.....	1 s.h.
15:200 Life, Health & Disability Insurance.....	3 s.h.	60:152 Intro to Anatomy and Physiology for Coaching.....	1 s.h.
15:205 Financial Planning/Employee Benefits.....	3 s.h.	60:153 Human Development in Sports.....	1 s.h.
15:207 Real Estate Prelicense.....	3 s.h.	60:232 First Aid and Personal Safety.....	1 s.h.
15:210 Business Statistics.....	3 s.h.	80:125 Student Senate.....	1 s.h.
15:211 Word Processing.....	2 s.h.	80:126 Student Senate.....	1 s.h.
15:212 Business Communication.....	3 s.h.	80:225 Student Senate.....	1 s.h.
15:217 Professional Office Procedures.....	5 s.h.	80:226 Student Senate.....	1 s.h.
15:221 Marketing.....	3 s.h.	80:114 Intro to Human Services.....	3 s.h.
15:222 Principles of Advertising.....	3 s.h.	80:144 Native American History: Prehistory to Mid - 20th.....	3 s.h.
15:223 Principles of Selling.....	3 s.h.	80:190 Criminal Law I.....	3 s.h.
15:230 Money and Banking.....	3 s.h.	80:191 Criminal Law II.....	3 s.h.
15:241 Human Relations.....	3 s.h.	80:192 Patrol Procedures.....	3 s.h.
15:250 Basic Medical Insurance & Coding.....	2 s.h.	80:290 Criminal Evidence.....	3 s.h.
15:251 Medical Terminology I.....	3 s.h.	80:291 Administration of Justice.....	3 s.h.
15:252 Medical Terminology II.....	3 s.h.	80:292 Criminal Investigation.....	3 s.h.
15:255 Medical Transcription I.....	3 s.h.	85:103 Radio Speaking.....	1 s.h.
15:256 Medical Transcription II.....	3 s.h.	85:104 Voice and Diction.....	2 s.h.
15:259 Medical Office Procedures.....	3 s.h.		
15:280 On-the-Job Training.....	3 s.h.		
15:281 On-the-Job Training.....	3 s.h.		
15:299A Special Problems in Business.....	1 s.h.		
15:299B Special Problems in Business.....	2 s.h.		

89:100	Cooperative Work Experience .....	1-5 s.h.
89:101	Cooperative Work Experience .....	1-5 s.h.
89:102	Cooperative Work Experience .....	1-5 s.h.
89:103	Cooperative Work Experience .....	1-5 s.h.
89:104	Cooperative Work Experience .....	1-5 s.h.
89:105	Cooperative Work Experience .....	1-5 s.h.
89:120	Individualized Educational Planning and Assessment.....	1 s.h.
89:150	Job-Seeking Skills .....	1 s.h.
89:151	Academic Success Seminar.....	2 s.h.
89:152	Career Decision Making .....	2 s.h.
89:153	ACE-Action for College Education .....	1 s.h.
89:155	Financial Management/Insurance Internship.....	3 s.h.
89:163	Professions in Health .....	2 s.h.
89:164	Nurse Aide Theory .....	2 s.h.
89:165	Nurse Aide Clinical.....	1 s.h.
89:166	Nurse Aide II.....	3 s.h.
89:170	First Responder.....	2 s.h.
89:189	Emergency Medical Technician Intermediate Theory .....	4 s.h.
89:190	Emergency Medical Technician Intermediate Clinical/Field.....	3 s.h.
89:191	Emergency Medical Technician Paramedic Part I.....	8 s.h.
89:192	Emergency Medical Technician Paramedic Part II.....	5 s.h.
89:193	Emergency Medical Technician Paramedic Part III.....	5 s.h.
89:194	Emergency Medical Technician Paramedic Part IV .....	5 s.h.
89:195	Emergency Medical Technician Basic Part I.....	4 s.h.
89:196	Emergency Medical Technician Basic Part II.....	2 s.h.

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

### Quotable Quote:

Lots of people want to ride with you in the limo, but what you want is someone who will take the bus with you when the limo breaks down.

-Oprah Winfrey