

College Transfer Programs

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

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

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

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



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Accounting

Grand View College

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

| | |
|-----------------------------------------|--------|
| Principles of Microeconomics | 3 s.h. |
| Principles of Macroeconomics | 3 s.h. |
| College Algebra..... | 4 s.h. |
| Business Law I and II | 6 s.h. |
| Management Information Systems | 3 s.h. |
| Principles of Management | 3 s.h. |
| Principles of Accounting I and II | 6 s.h. |
| Personal Income Tax | 3 s.h. |
| Principles of Marketing | 3 s.h. |
| Money and Banking..... | 3 s.h. |
| Business Communications..... | 3 s.h. |
| Intro to Statistics | 3 s.h. |

Agriculture and Agricultural Related

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

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

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

Iowa State University

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

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

| | |
|--------------------------------------|--------|
| Animal Science I | 3 s.h. |
| Animal Science II | 3 s.h. |
| Agricultural Computer | 3 s.h. |
| Principles of Agronomy | 3 s.h. |
| Principles of Crop Production | 3 s.h. |
| Intro to Agricultural Business | 3 s.h. |

Art

| | |
|------------------------------------|--------|
| Composition & Speech I and II..... | 8 s.h. |
| Art History I | 4 s.h. |
| Art History II | 4 s.h. |
| Drawing..... | 3 s.h. |
| Ceramics..... | 3 s.h. |
| Two-Dimensional Design | 3 s.h. |
| Graphic Design..... | 3 s.h. |
| Painting I..... | 3 s.h. |
| Painting II..... | 3 s.h. |
| Creative Photography | 3 s.h. |
| Natural Science/Mathematics | 8 s.h. |
| Social Science | 8 s.h. |

The art major should take additional hours or general education in the pursuit of the Associate in Arts Degree.

Drake University

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

| | |
|-----------------------------------------------|----------|
| Composition & Speech I and II..... | 4 s.h. |
| Speech..... | 2 s.h. |
| History..... | 6 s.h. |
| Life Science (must include lab)..... | 4 s.h. |
| Physical Science (must include lab) | 4 s.h. |
| Mathematics (College Algebra or higher) | 3-4 s.h. |
| Values and Ethics | 3 s.h. |
| International/Multicultural Awareness | 3 s.h. |
| History of Art I and II..... | 8 s.h. |
| Drawing I and II..... | 6 s.h.* |
| Two-Dimensional Design | 3 s.h.* |
| Three-Dimensional Design | 3 s.h.* |
| Painting I and II..... | 6 s.h.* |

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

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

Simpson College

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

| | |
|-----------------------------------|--------|
| Art History I..... | 4 s.h. |
| Art History II..... | 4 s.h. |
| Art for Elementary Education..... | 3 s.h. |
| Drawing I..... | 3 s.h. |
| Drawing II..... | 3 s.h. |
| Ceramics..... | 3 s.h. |
| Creative Photography..... | 3 s.h. |
| Digital Photography..... | 3 s.h. |
| Painting I..... | 3 s.h. |
| Painting II..... | 3 s.h. |
| Two-Dimensional Design..... | 3 s.h. |
| Three-Dimensional Design..... | 3 s.h. |
| Creative Photography II..... | 3 s.h. |
| Graphic Design..... | 3 s.h. |
| Graphic Design II..... | 3 s.h. |

Upper Iowa University

RESIDENTIAL CAMPUS

Students should consider taking the following courses to meet requirements.

| | |
|-------------------------------|--------|
| Art History I and II..... | 8 s.h. |
| Drawing I and II..... | 6 s.h. |
| Ceramics or Painting I..... | 3 s.h. |
| Two-Dimensional Design..... | 3 s.h. |
| Three-Dimensional Design..... | 3 s.h. |

Art Education**Upper Iowa University**

RESIDENTIAL CAMPUS

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

| | |
|------------------------------|--------|
| History of Art I and II..... | 8 s.h. |
| Drawing I and II..... | 6 s.h. |
| Ceramics..... | 3 s.h. |
| Painting I and II..... | 6 s.h. |

Athletic Trainer**Iowa State University**

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

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

Simpson College

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

| | |
|---------------------------------------------|--------|
| Kinesiology..... | 4 s.h. |
| Care & Prevention of Athletic Injuries..... | 2 s.h. |

Other recommended courses:

| | |
|----------------------------------------|--------|
| General Chemistry I..... | 5 s.h. |
| Organic Chemistry I..... | 5 s.h. |
| Nutrition or Health and Nutrition..... | 3 s.h. |
| Introduction to Psychology..... | 3 s.h. |
| Anatomy and Physiology I..... | 4 s.h. |
| Anatomy and Physiology II..... | 4 s.h. |

Biology**Grand View College**

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

| | |
|----------------------------------------------------------------|-----------|
| College Algebra..... | 4 s.h. |
| Environmental Science..... | 3 s.h. |
| Microbiology..... | 4 s.h. |
| General Chemistry I and II..... | 10 s.h. |
| Anatomy and Physiology I and II..... | 8 s.h. |
| Organic Chemistry I and II..... | 10 s.h. |
| College Physics I and II or Classical Physics I and II..... | 8-10 s.h. |
| Biology I and II..... | 8 s.h. |

Upper Iowa University

RESIDENTIAL CAMPUS

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

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

Biology and Environmental Science**Simpson College**

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

| | |
|----------------------------------------------------------------|-----------|
| Biology I and II**..... | 8 s.h. |
| Microbiology..... | 4 s.h. |
| Nutrition OR Health and Nutrition*..... | *3 s.h. |
| Anatomy and Physiology I and II..... | 8 s.h. |
| General Chemistry I and II..... | 10 s.h. |
| College Physics I and II OR Classical Physics I and II..... | 8-10 s.h. |
| Environmental Science***..... | 3 s.h. |
| Introductory Biology..... | 3 s.h. |
| Introductory Biology Lab..... | 1 s.h. |
| Calculus I..... | 4 s.h. |

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

**Introductory Biology and Introductory Biology Lab combined equal Simpson's BIOL111.

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

Business

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

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

| | |
|------------------------------------------------------------------|----------|
| Composition & Speech I and II | 8 s.h. |
| Principles of Macroeconomics & Principles of Microeconomics | 6 s.h. |
| Introduction to Computers and Information Systems | 3 s.h. |
| Introduction to Statistics | 3 s.h. |
| Principles of Accounting I and II | 6 s.h. |
| Social Sciences | 3 s.h. |
| Humanities | 8 s.h. |
| College Mathematics | 3-4 s.h. |

In addition, these colleges have the following specific requirements:

Buena Vista University (Mason City Campus)

| | |
|---------------------------------------------------|--------|
| ACCOUNTING | |
| Business Law I..... | 3 s.h. |
| Finite Math | 3 s.h. |
| Principles of Marketing | 3 s.h. |
| Principles of Management | 3 s.h. |
| MANAGEMENT/ ENTREPRENEURSHIP | |
| Principles of Management | 3 s.h. |
| Business Law I..... | 3 s.h. |
| Finite Math | 3 s.h. |
| Human Resource Management..... | 3 s.h. |
| Principles of Marketing | 3 s.h. |
| Personal Finance..... | 3 s.h. |
| FINANCE AND BANKING | |
| Finite Math | 3 s.h. |
| Business Law I..... | 3 s.h. |
| Principles of Marketing | 3 s.h. |
| Principles of Management | 3 s.h. |
| MANAGEMENT INFORMATION SYSTEMS | |
| Finite Math | 3 s.h. |
| Business Law I..... | 3 s.h. |
| Principles of Marketing | 3 s.h. |
| Management Information Systems (recommended)..... | 3 s.h. |
| Principles of Management | 3 s.h. |

Drake University

BUSINESS
Accounting, Actuarial Science, Entrepreneurial Management, Finance, General Business, Information Systems, Insurance,

International Business, Management, Marketing; all majors in the College of Business and Public Administration are offered as joint majors with Accounting.

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

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

| | |
|------------------------------------|--------|
| Principles of Microeconomics | 3 s.h. |
| Principles of Macroeconomics | 3 s.h. |
| Principles of Accounting I..... | 3 s.h. |
| Principles of Accounting II..... | 3 s.h. |
| Business Law I..... | 3 s.h. |
| Calculus* | 3 s.h. |
| Business Statistics | 3 s.h. |

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

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

Grand View College

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

| | |
|-----------------------------------------|--------|
| Business Law I..... | 3 s.h. |
| Management Information Systems | 3 s.h. |
| Principles of Management | 3 s.h. |
| Principles of Accounting I and II | 6 s.h. |
| Business Communications..... | 3 s.h. |
| Principles of Marketing | 3 s.h. |
| Principles of Macroeconomics..... | 3 s.h. |
| Principles of Microeconomics | 3 s.h. |
| Introduction to Statistics..... | 3 s.h. |

Iowa State University

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

Students at Iowa State University begin in the College of Business as a Pre-Business student. Students will declare a major and enter the professional program once they have earned a 2.5 GPA (cumulative or foundation) and have completed 30 credits including the foundation courses. MIS requires a 2.75 GPA. The foundation courses include:

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

| | |
|-----------------------------------------|------------|
| IST Major Courses | 40-44 s.h. |
| Composition & Speech I and II | 8 s.h. |
| Principles of Accounting I and II | 6 s.h. |
| Principles of Microeconomics | 3 s.h. |
| Principles of Macroeconomics | 3 s.h. |
| Finite Math | 3 s.h. |

Minnesota State University - Mankato

ACCOUNTING, FINANCE, MANAGEMENT, MARKETING, AND INTERNATIONAL BUSINESS

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

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

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

Simpson College

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

MANAGEMENT ACCOUNTING & ECONOMICS

| | |
|---------------------------------------------------------|--------|
| Introduction to Business OR | |
| Principles of Management | 3 s.h. |
| Business Law I..... | 3 s.h. |
| Business Law II..... | 3 s.h. |
| Principles of Macroeconomics | 3 s.h. |
| Principles of Microeconomics | 3 s.h. |
| Introduction to Ethics | 3 s.h. |
| Introduction to Insurance | 3 s.h. |
| Business Statistics or Introduction to Statistics | 3 s.h. |
| Principles of Marketing | 3 s.h. |
| Principles of Accounting I..... | 3 s.h. |
| Principles of Accounting II..... | 6 s.h. |
| Human Resources Management | 3 s.h. |
| Business Internship..... | 3 s.h. |

The University of Iowa (Min. 2.75 GPA)

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

It is recommended that students intending to transfer to the Tippie College of Business complete all of the prerequisite courses prior to matriculating. Doing this will allow you to enter the College immediately

upon transferring to the University of Iowa and will increase the likelihood of timely graduation. Additionally, you will need junior standing (60 semester hours) and a 2.75 prerequisite GPA with no grade below C, and a 2.75 cumulative GPA. Accounting majors must have a 2.75 prerequisite GPA, a 3.0 cumulative GPA, and a 2.67 GPA in financial and managerial accounting.

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

..... Prerequisite courses must be completed prior to admission to the College of Business:

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

Business core courses may be completed before or after admission to the College of Business:

| | |
|--------------------------------------------------------|--------|
| Introduction to Computer and Information Systems | 3 s.h. |
| Business Law I..... | 3 s.h. |
| Principles of Management | 3 s.h. |
| Business Statistics..... | 3 s.h. |

The University of Iowa College of Business will require second level proficiency in a single foreign language to graduate, unless the student has earned an A.A. degree.

University of Northern Iowa (Min. 2.50 GPA)

ACCOUNTING, FINANCE, MANAGEMENT, MARKETING, MANAGEMENT INFORMATION SYSTEMS, REAL ESTATE

| | |
|---------------------------|--------|
| Business Statistics | 3 s.h. |
|---------------------------|--------|

BUSINESS TEACHING MAJOR

| | |
|----------------------------------------|--------|
| Introduction to Teaching..... | 3 s.h. |
| AND Field Experience and Seminar | 1 s.h. |
| Developmental Psychology..... | 3 s.h. |
| Computer Business Applications | 3 s.h. |
| Business Statistics | 3 s.h. |
| Including Diverse Learners | 3 s.h. |
| Educational Technology and Design..... | 3 s.h. |

Upper Iowa University

RESIDENTIAL CAMPUS

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

MARKETING MAJOR

| | |
|--------------------------------------|--------|
| Business Law I..... | 3 s.h. |
| Management Information Systems | 3 s.h. |
| Business Statistics | 3 s.h. |
| Principles of Marketing | 3 s.h. |
| Principles of Management | 3 s.h. |
| Principles of Advertising..... | 3 s.h. |
| Principles of Retailing | 3 s.h. |

ACCOUNTING MAJOR

| | |
|--------------------------------------|--------|
| Business Law I..... | 3 s.h. |
| Management Information Systems | 3 s.h. |
| Business Statistics | 3 s.h. |
| Principles of Marketing | 3 s.h. |
| Principles of Management | 3 s.h. |

MANAGEMENT MAJOR

| | |
|-------------------------------------|--------|
| Business Law I..... | 3 s.h. |
| Management Information Systems..... | 3 s.h. |
| Business Statistics..... | 3 s.h. |
| Principles of Marketing..... | 3 s.h. |
| Principles of Management..... | 3 s.h. |
| Principles of Supervision..... | 3 s.h. |
| Human Resources Management..... | 3 s.h. |

MIS MAJOR

| | |
|-------------------------------------|--------|
| Business Law I..... | 3 s.h. |
| Management Information Systems..... | 3 s.h. |
| Business Statistics..... | 3 s.h. |
| Principles of Marketing..... | 3 s.h. |
| Principles of Management..... | 3 s.h. |

Waldorf College

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

| | |
|--------------------------------------------------------|--------|
| Principles of Macroeconomics..... | 3 s.h. |
| Principles of Microeconomics..... | 3 s.h. |
| Principles of Accounting I..... | 3 s.h. |
| Principles of Accounting II..... | 3 s.h. |
| Introduction to Computers and Information Systems..... | 3 s.h. |
| Finite Math..... | 3 s.h. |
| Business Statistics..... | 3 s.h. |
| Business Law I and II..... | 6 s.h. |
| Business Communications..... | 3 s.h. |
| Principles of Management..... | 3 s.h. |

Wartburg College

ACCOUNTING, FINANCE

| | |
|--------------------------------------------------------|--------|
| One laboratory science..... | 4 s.h. |
| Western Civilization..... | 4 s.h. |
| Finite Math..... | 3 s.h. |
| Introduction to Computers and Information Systems..... | 3 s.h. |
| Business Statistics..... | 3 s.h. |

MANAGEMENT, MARKETING

| | |
|--------------------------------------------------------|--------|
| One laboratory science..... | 4 s.h. |
| Western Civilization..... | 4 s.h. |
| Principles of Management..... | 3 s.h. |
| Principles of Marketing..... | 3 s.h. |
| Business Law I..... | 3 s.h. |
| Finite Math..... | 3 s.h. |
| Introduction to Computers and Information Systems..... | 3 s.h. |
| Business Statistics..... | 3 s.h. |

INTERNATIONAL BUSINESS

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

Chiropractic

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

| | |
|------------------------------------------------|---------|
| Composition & Speech I and II..... | 6 s.h. |
| College Chemistry I and II..... | 10 s.h. |
| OR | |
| General Chemistry I and II..... | 10 s.h. |
| Organic Chemistry I and II..... | 10 s.h. |
| College Physics I and II..... | 8 s.h. |
| Anatomy & Physiology I and II (recommended) OR | |
| Biology I and II..... | 8 s.h. |
| Humanities/Social Sciences..... | 15 s.h. |
| Introduction to Psychology..... | 3 s.h. |

Coaching

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

Iowa State University

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

Simpson College

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

Communications

Waldorf College

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

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

Computer Information Systems

Waldorf College

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

| | |
|-------------------------------------------------------------------------------------------------|--------|
| Computer Business Applications OR Introduction to Computers and Information Systems | 3 s.h. |
| Management Information Systems I | 3 s.h. |
| IT Essentials | 4 s.h. |
| plus CISCO Networking | 4 s.h. |
| plus Database and SQL | 3 s.h. |
| plus Intro to Programming Logic with Language | 3 s.h. |
| plus Web Development I | 3 s.h. |
| Introduction to E-Commerce | 3 s.h. |
| plus E-Commerce Cases | 4 s.h. |
| CISCO Networking | 4 s.h. |
| plus CISCO Routers | 4 s.h. |
| plus CISCO Switches | 4 s.h. |
| plus CISCO Wide Area Network (WAN) | 4 s.h. |
| OR Web Development I | 3 s.h. |
| plus Intro to Programming Logic with Language | 3 s.h. |
| plus Web Development II | 3 s.h. |
| plus Internet Programming II | 3 s.h. |
| plus Web Server Development | 4 s.h. |
| OR Web Application Development | 3 s.h. |

Computer Science

Drake University

COMPUTER SCIENCE

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

| | |
|-------------------------|--------|
| Calculus I and II | 8 s.h. |
|-------------------------|--------|

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

Grand View College

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

| | |
|-----------------------------------------|--------|
| Engineering Problems with FORTRAN | 3 s.h. |
| Calculus I | 4 s.h. |
| Finite Math | 3 s.h. |
| Introduction to Statistics | 3 s.h. |

Iowa State University

COMPUTER SCIENCE

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

| | |
|-------------------------------------|---------|
| Composition & Speech I and II | 8 s.h. |
| Calculus I and II | 8 s.h. |
| Classical Physics I and II | 10 s.h. |

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

Minnesota State University - Mankato

COMPUTER SCIENCE

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

| | |
|------------------------------------------------------------------------------------------|-----------|
| Composition & Speech I and II | 8 s.h. |
| Calculus I and II | 8 s.h. |
| General Chemistry I and II OR Classical Physics I and II OR Biology I and II | 8-10 s.h. |

CIS/MIS

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

| | |
|-------------------------------------|--------|
| Composition & Speech I and II | 8 s.h. |
| Introduction to Statistics | 3 s.h. |
| Calculus I | 4 s.h. |
| Business Statistics | 3 s.h. |

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

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

Simpson College

COMPUTER SCIENCE

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

| | |
|---------------------------------------------------------|--------|
| Calculus I | 4 s.h. |
| Business Statistics or Introduction to Statistics | 3 s.h. |
| Java | 4 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: (select two)

| | |
|----------------------------------|----------|
| Calculus I | |
| Calculus II | |
| Introduction to Statistics | 7-8 s.h. |

B.S. Degree:
 Calculus I and II 8 s.h.
 and
 Introduction to Statistics 3 s.h.

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

COMPUTER INFORMATION SYSTEMS

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

Principles of Accounting I and II 8 s.h.
 Select two of the following:
 Calculus I
 Calculus II
 Introduction to Statistics 7-8 s.h.

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

Conservation

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

Conservation Management

Upper Iowa University

RESIDENTIAL CAMPUS

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

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

Biology I and II 8 s.h.
 American National Government OR
 American State and Local Government 3 s.h.

Criminal Justice

Buena Vista University

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

Introduction to Psychology 3 s.h.
 Introduction to Sociology or Social Problems 3 s.h.
 American Government 3 s.h.
 Criminal Law 3 s.h.
 Administration of Justice 3 s.h.
 Criminal Investigation 3 s.h.

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

Grand View College

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

Introduction to Psychology 3 s.h.
 Introduction to Sociology 3 s.h.
 Social Problems 3 s.h.
 Computer Business Applications 3 s.h.
 Administration of Justice 3 s.h.
 American National Government 3 s.h.
 Introduction to Statistics 3 s.h.

Simpson College

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

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

Business Statistics or Introduction to Statistics 3 s.h.
 Introduction to Ethics 3 s.h.

WITH JUSTICE CONCENTRATION:

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

WITH ADMINISTRATION CONCENTRATION:

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

WITH CORRECTIONS CONCENTRATION:

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

Criminology

Upper Iowa University

RESIDENTIAL CAMPUS

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

Introduction to Sociology 3 s.h.
 Social Problems 3 s.h.
 Criminal Law 3 s.h.

Dentistry

The University of Iowa

Each applicant for the College of Dentistry at the University of Iowa must present three years of credit comprising not less than 90 semester hours of work. No more than 60 semester hours will be accepted from a two-year institution. 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 their first

year in dentistry. The academic work would include the courses listed below which are attainable at North Iowa Area Community College:

| | |
|-------------------------------------|---------|
| Composition & Speech I and II | 8 s.h. |
| Biology I and II | 8 s.h. |
| College Physics I and II | 8 s.h. |
| General Chemistry I and II | 10 s.h. |
| Organic Chemistry I and II | 10 s.h. |

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

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

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

Applications are accepted beginning June 1 of the year prior to the year for which application is made. Completed applications must 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.

Early Childhood Education

Buena Vista University

B.A. Elementary with Pre-Kindergarten, Kindergarten Endorsement

Buena Vista University will accept NIACC students with an Associate in Arts degree from North Iowa Area Community College with all the general education core requirements met. All conditions from the Transfer Articulation Agreement between NIACC and BVU signed January 27, 2009, apply.

1. Students must have maintained a minimum cumulative grade point average of 2.0 on all courses acceptable for transfer.
2. For acceptance into the Teacher Education Program, students must have: (a) a cumulative grade point average of 2.5; (b) the completion of the Praxis I exam with the minimum scores of 173 in Reading, 172 in Writing and 171 in Mathematics; (c) the completion of both PSY-281 Educational Psychology and PSY-223 Child and Adolescent Psychology with a minimum grade of C; and (d) other requirements as noted in the approved BVU education program.
3. The following courses should be successfully completed at NIACC for all elementary/Pre-K/K students to ensure transfer for an early childhood endorsement:

| | |
|--------------------------------------------------------|--------|
| Child Health, Safety and Nutrition | 3 s.h. |
| Early Childhood Curriculum II | 3 s.h. |
| Home and School Relationships in Early Childhood | 3 s.h. |
| Early Childhood Guidance | 3 s.h. |
| Child and Adolescent Psychology | |
| AND Educational Psychology | 6 s.h. |
| Child Growth and Development | 3 s.h. |
| Including Diverse Learners | 3 s.h. |
| Introduction to Teaching | 3 s.h. |
| Field Experience and Seminar | 1 s.h. |
| Educational Technology and Design | 3 s.h. |
| Children's Literature | 3 s.h. |
| Inquiry into Life Science (and Lab) | 4 s.h. |
| Physical Science | 4 s.h. |
| Math for Elementary Teachers I | |
| AND Math for Elementary Teachers II | 8 s.h. |

Additional courses that need to be taken at Buena Vista University for the Pre-Kindergarten/Kindergarten Endorsement:

- EDUC 428 Student Teaching in Preschool
- EDUC 429 Student Teaching in Kindergarten

University of Northern Iowa

B.A. Elementary Childhood Education

It is understood that University of Northern Iowa will accept NIACC students with an Associate in Arts degree from North Iowa Area Community College with all the general education core requirements met. All conditions from the Transfer Articulation Agreement between NIACC and UNI apply as per the April 18, 2008 Associate of Arts Articulation Agreement.

1. For acceptance in the Teacher Education Program, students must have: (a) a cumulative grade point average of 2.5; (b) the completion of the Praxis I exam with 170 minimum score on each of the three subtests (Reading, Writing, and Mathematics), AND a cumulative score of 522 to be accepted into the Teacher Education Program; and (c) the successful completion of the Application for Admission to Teacher Education to UNI's Teacher Education Program.
2. The Associate of Arts degree from NIACC should include the following courses successfully completed at NIACC for all early childhood education students to ensure completion of a B.A. at the University of Northern Iowa in 2 to 2 1/2 years:

| | |
|--------------------------------------------------------|--------|
| Child Health, Safety and Nutrition | 3 s.h. |
| Home and School Relationships in Early Childhood | 3 s.h. |
| Child and Adolescent Psychology | 3 s.h. |
| OR Child Growth and Development | 3 s.h. |
| Educational Psychology | 3 s.h. |
| Including Diverse Learners | 3 s.h. |
| Classroom Assessment | 2 s.h. |
| Introduction to Teaching | |
| AND Field Experience and Seminar | 4 s.h. |
| Educational Technology and Design | 3 s.h. |
| Art for Elementary Education | 3 s.h. |
| Children's Literature | 3 s.h. |
| Inquiry into Life Science (and Lab) | 4 s.h. |
| Physical Science | 4 s.h. |
| Math for Elementary Teachers I | 4 s.h. |

Upper Iowa University

Pre-Kindergarten - Grade 3

Humanities (8 credit hours) - register with a NIACC counselor.

Communications (8 credit hours) - register with a NIACC counselor.

Mathematics and Sciences (8 credit hours) - register with a NIACC counselor.

Social and Behavioral Sciences (8 credit hours)

Note: Take BCA-101 Introduction to Computers and Information Systems OR BCA-215 Computer Business Applications for Upper Iowa University computer requirement.

Note: Students must take one of the following MAT courses: MAT-121, MAT-140, MAT-156, MAT-161, MAT-165.

Note: Upper Iowa University has a requirement of one biological science course and one physical science course.

NIACC Courses:

| | |
|--------------------------------------------------------|--------|
| Child Health, Safety and Nutrition | 3 s.h. |
| Home and School Relationships in Early Childhood | 3 s.h. |
| Developmental Psychology..... | 3 s.h. |
| OR Child and Adolescent Psychology..... | 3 s.h. |
| Educational Psychology..... | 3 s.h. |
| Including Diverse Learners | 3 s.h. |
| Educational Technology and Design..... | 3 s.h. |
| Children's Literature..... | 3 s.h. |
| Introduction to Early Childhood Education | 3 s.h. |
| Early Childhood Curriculum II..... | 3 s.h. |
| Early Childhood Guidance..... | 3 s.h. |

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

Completion of the A.A. degree with the following courses:

| | |
|------------------------------------------------------------------------------------------|--------|
| 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. |
| Music Appreciation OR Art Appreciation OR Introduction to Theater OR Art History..... | 3 s.h. |
| *Physical Science OR Introduction to General Chemistry..... | 4 s.h. |
| *Inquiry Into Life Science | 4 s.h. |
| *Biology..... | 3 s.h. |
| Composition & Speech I and II..... | 8 s.h. |
| Mathematics for Elementary Teachers I and II..... | 8 s.h. |

| | |
|--------------------------------------------------------------------|--------|
| Literature course | 3 s.h. |
| Introduction to Teaching..... | 3 s.h. |
| AND Field Experience and Seminar..... | 1 s.h. |
| Educational Technology and Design..... | 3 s.h. |
| Educational Psychology AND Child and Adolescent Psychology..... | 6 s.h. |

* Must include one lab.

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

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

3. Composition & Speech I and II (8 s.h.) waives public speaking requirement.

Endorsements available in Reading, Pre-K, Middle School and Instructional Strategist I. (For specific curriculum for Pre-K, see *Early Childhood Education* section)

SECONDARY EDUCATION

Completion of the A.A. Degree with the following courses:

| | |
|------------------------------------------------------------------------------------------|--------|
| U.S. History OR American Government | 3 s.h. |
| Music Appreciation OR Art Appreciation OR Introduction to Theater OR Art History..... | 3 s.h. |
| Physical Science OR Introduction to General Chemistry | 4 s.h. |
| Biology OR Inquiry Into Life Science | 4 s.h. |
| Composition & Speech I and II..... | 8 s.h. |
| Educational Psychology and Child and Adolescent Psychology.... | 3 s.h. |
| Introduction to Teaching..... | 3 s.h. |
| AND Field Experience and Seminar..... | 1 s.h. |
| Educational Technology and Design..... | 3 s.h. |

1. Secondary Education requires major in content area.

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

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

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

Drake University

EDUCATION

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

Both Elementary and Secondary Education majors complete the following courses:

| | |
|------------------------------------------------------------------------|--------|
| Composition & Speech I and II..... | 8 s.h. |
| Mathematics for Elementary Teachers I and II (elementary only)..... | 8 s.h. |
| American History..... | 6 s.h. |
| American Government..... | 3 s.h. |
| Public Speaking..... | 2 s.h. |
| Inquiry Into Life Science..... | 4 s.h. |
| Biology I (may take Biological Principles + Lab)..... | 4 s.h. |
| General Chemistry I..... | 5 s.h. |
| Physical Science + Lab..... | 4 s.h. |
| Introduction to Teaching..... | 3 s.h. |
| AND Field Experience and Seminar..... | 1 s.h. |
| Classroom Assessment..... | 2 s.h. |
| Educational Technology and Design..... | 3 s.h. |
| Including Diverse Learners..... | 3 s.h. |

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

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

Grand View College

ELEMENTARY EDUCATION

| | |
|---------------------------------------------------|--------|
| Introduction to Psychology..... | 3 s.h. |
| Educational Psychology..... | 3 s.h. |
| Developmental Psychology..... | 3 s.h. |
| Art Appreciation..... | 3 s.h. |
| Art in the Elementary School..... | 3 s.h. |
| Children's Literature..... | 3 s.h. |
| Mathematics for Elementary Teachers I and II..... | 8 s.h. |
| College Algebra..... | 4 s.h. |
| Introduction to Teaching..... | 3 s.h. |
| AND Field Experience and Seminar..... | 1 s.h. |
| Classroom Assessment..... | 2 s.h. |
| Including Diverse Learners..... | 3 s.h. |
| Educational Technology and Design..... | 3 s.h. |

ELEMENTARY/SECONDARY ART EDUCATION

| | |
|---------------------------------------|--------|
| Introduction to Psychology..... | 3 s.h. |
| Educational Psychology..... | 3 s.h. |
| Developmental Psychology..... | 3 s.h. |
| College Algebra..... | 4 s.h. |
| Introduction to Teaching..... | 3 s.h. |
| AND Field Experience and Seminar..... | 1 s.h. |
| Classroom Assessment..... | 2 s.h. |
| Including Diverse Learners..... | 3 s.h. |
| Art History I and II..... | 6 s.h. |
| Drawing..... | 3 s.h. |
| Ceramics..... | 3 s.h. |
| 2-D Design..... | 3 s.h. |
| Graphic Design..... | 3 s.h. |
| Painting I and II..... | 6 s.h. |
| Digital Illustration..... | 3 s.h. |

SECONDARY EDUCATION/BUSINESS ADMINISTRATION

| | |
|----------------------------------------|--------|
| Introduction to Psychology..... | 3 s.h. |
| Educational Psychology..... | 3 s.h. |
| Developmental Psychology..... | 3 s.h. |
| Principles of Macroeconomics..... | 3 s.h. |
| Principles of Microeconomics..... | 3 s.h. |
| Business Law I and II..... | 6 s.h. |
| Management Information Systems..... | 3 s.h. |
| Principles of Accounting I and II..... | 6 s.h. |
| College Algebra..... | 4 s.h. |
| Introduction to Teaching..... | 3 s.h. |
| AND Field Experience and Seminar..... | 1 s.h. |
| Classroom Assessment..... | 2 s.h. |
| Including Diverse Learners..... | 3 s.h. |
| Educational Technology and Design..... | 3 s.h. |

Iowa State University

HIGH SCHOOL TEACHER EDUCATION (SECONDARY TEACHER EDUCATION)

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

ELEMENTARY EDUCATION

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

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Composition & Speech I and II..... | 8 s.h. |
| Developmental Psychology..... | 3 s.h. |
| American Government..... | 3 s.h. |
| Additional Social Science..... | 3 s.h. |
| Anthropology, Economics, Geography, Psychology, Sociology, Humanities..... | 6 s.h. |
| Art, Foreign Language, History, Literature, Music, Philosophy, Theater, Physical Education (May include First Aid and Physical Safety)..... | 3 s.h. |
| Biological Science..... | 3 s.h. |
| Inquiry Into Life Science, Introductory Biology, Anatomy & Physiology..... | 4 s.h. |
| Physical Science..... | 4 s.h. |
| Physical Science, Principles of Physics, College Chemistry, College Physics..... | 8 s.h. |
| Mathematics for Elementary Teachers I and II..... | 4 s.h. |
| Additional Mathematics..... | 4 s.h. |
| College Algebra/Trigonometry, Pre-Calculus, Calculus I..... | 3 s.h. |
| Introduction to Teaching..... | 3 s.h. |
| AND Field Experience and Seminar..... | 1 s.h. |
| Children's Literature..... | 3 s.h. |
| Educational Psychology..... | 3 s.h. |
| Art in Elementary School..... | 3 s.h. |
| Classroom Assessment..... | 2 s.h. |
| Including Diverse Learners..... | 3 s.h. |
| Educational Technology and Design..... | 3 s.h. |

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

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

All students seeking recommendation for a teaching license from ISU must be admitted to the Teacher Education Program. Eligibility for the program is obtained after completing at least 9 credits at ISU with a 2.50 GPA, a combined score of 522 on the PRAXIS I with no score less than 170, at least a C grade in Composition & Speech I and II, 10 hours of documented field observation, and good mental/physical health.

Minnesota State University - Mankato

SECONDARY EDUCATION (High School Teaching)

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

ELEMENTARY EDUCATION

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

| | |
|---------------------------------------------------|--------|
| Composition & Speech I and II..... | 8 s.h. |
| Math for Liberal Arts..... | 3 s.h. |
| Mathematics for Elementary Teachers I and II..... | 8 s.h. |
| Inquiry Into Life Science..... | 4 s.h. |
| Introductory Biology & Lab..... | 4 s.h. |
| Principles of Physics..... | 4 s.h. |
| American History..... | 6 s.h. |
| Children's Literature..... | 3 s.h. |

A 2.75 cumulative grade point average is required for professional education. The Pre-Professional Skills Test (PPST) must be complete and on file at MSU before a student is allowed to take professional education courses. Students should contact the MSU College of Education Advising Center with questions.

Simpson College

EDUCATION

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

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

EDUCATION

| | |
|----------------------------------------|--------|
| Composition & Speech I and II..... | 8 s.h. |
| OR Composition I and II..... | 6 s.h. |
| Introduction to Teaching..... | 3 s.h. |
| AND Field Experience and Seminar..... | 1 s.h. |
| Developmental Psychology..... | 3 s.h. |
| Including Diverse Learners..... | 3 s.h. |
| Educational Technology and Design..... | 3 s.h. |
| Educational Psychology..... | 3 s.h. |

Elementary Only:

| | |
|--------------------------------------------|--------|
| Art in the Elementary School..... | 3 s.h. |
| Math for Elementary Teachers I and II..... | 8 s.h. |

| | |
|----------------------------------------------------|--------|
| American National Government..... | 3 s.h. |
| U.S. History to 1877..... | 3 s.h. |
| OR U.S. History Since 1877..... | 3 s.h. |
| Western Civilization: Ancient to Early Modern..... | 4 s.h. |
| OR World Literature I..... | 3 s.h. |
| Western Civilization: Early Modern to Present..... | 4 s.h. |
| OR World Literature II..... | 3 s.h. |
| Children's Literature..... | 3 s.h. |

One of the following:

| | |
|-----------------------------------|--------|
| Inquiry Into Life Science..... | 4 s.h. |
| Introductory Biology and Lab..... | 3 s.h. |
| Environmental Science..... | 3 s.h. |
| Biology I..... | 4 s.h. |
| Biology II..... | 4 s.h. |

AND

One of the following:

| | |
|--------------------------------|--------|
| Principles of Physics..... | 4 s.h. |
| College Chemistry I..... | 5 s.h. |
| General Chemistry I or II..... | 5 s.h. |
| Physical Science..... | 3 s.h. |
| College Physics I..... | 4 s.h. |
| Classical Physics I..... | 5 s.h. |

The 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 40 semester hours of credit. Admission is highly competitive and is based on an achievement profile which includes: GPA; PRAXIS I (minimum 522 composite, with no sub score lower than 170). In addition, students should have completed an approved 10-hour volunteer practicum.

Education majors fulfill the same General Education Program Requirements (GERs) as students in the College of Liberal Arts and Sciences. Therefore, NIACC students may use the A.A. Degree to automatically fulfill all GERs, with the exception of foreign language. Foreign language may be taken in high school or at NIACC to meet these requirements. State licensure requires one college-level math course.

ELEMENTARY AND SECONDARY EDUCATION

NIACC students should complete:

| | |
|---------------------------------------|--------|
| Introduction to Teaching..... | 3 s.h. |
| AND Field Experience and Seminar..... | 1 s.h. |
| Educational Psychology..... | 3 s.h. |

ADDITIONAL SECONDARY EDUCATION REQUIREMENTS

In addition to the general education requirements explained above, students interested in teaching at the secondary level should consult their NIACC counselor in selecting courses approved for use toward their teaching major.

APPLICATION DEADLINES:

- Fall Semester - March 15
- Spring Semester - October 15

University of Northern Iowa

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

ELEMENTARY EDUCATION

Elementary Education (K-6) should consider:

| | |
|--------------------------------------------------------------------------------------------------------------|--------|
| Art in the Elementary School | 3 s.h. |
| Composition & Speech I and II | 8 s.h. |
| Children's Literature | 3 s.h. |
| Mathematics for Elementary Teachers I and II | 8 s.h. |
| Biology and Physical Science | 8 s.h. |
| One course in Life Science and one in Physical Science (at least one must have a lab, if A.A. is not earned) | |
| Child and Adolescent Psychology (not required) | 3 s.h. |
| Developmental Psychology | 3 s.h. |
| OR Child Growth and Development | 3 s.h. |
| OR Child and Adolescent Psychology | 3 s.h. |
| Introduction to Teaching | 3 s.h. |
| AND Field Experience and Seminar | 1 s.h. |
| Educational Technology and Design | 3 s.h. |
| Educational Psychology | 3 s.h. |
| Classroom Assessment | 2 s.h. |
| Including Diverse Learners | 2 s.h. |

EARLY CHILDHOOD EDUCATION

(For specific curriculum, see *Early Childhood Education section*)

TECHNOLOGY EDUCATION AND TRAINING

Integrated Technology Education majors should consider:

| | |
|------------------------------------------|--------|
| Composition & Speech I and II | 8 s.h. |
| College Physics I | 4 s.h. |
| Introduction to Teaching | 3 s.h. |
| AND Field Experience and Seminar | 1 s.h. |
| Developmental Psychology | 3 s.h. |
| OR Child Growth and Development | 3 s.h. |
| OR Child and Adolescent Psychology | 3 s.h. |
| Educational Psychology | 3 s.h. |
| Including Diverse Learners | 2 s.h. |
| Educational Assessment | 2 s.h. |

SECONDARY EDUCATION

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

| | |
|------------------------------------------|--------|
| Educational Technology and Design | 3 s.h. |
| Introduction to Teaching | 3 s.h. |
| AND Field Experience and Seminar | 1 s.h. |
| Developmental Psychology | 3 s.h. |
| OR Child Growth and Development | 3 s.h. |
| OR Child and Adolescent Psychology | 3 s.h. |
| Educational Psychology | 3 s.h. |
| Classroom Assessment | 2 s.h. |
| Including Diverse Learners | 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.

Upper Iowa University

Students planning to transfer into the Teacher Education Program at Upper Iowa University may fulfill the following general education requirements:

| | |
|-------------------------------------------------------------------------------|--------|
| Arts and Humanities | 6 s.h. |
| Communication | 9 s.h. |
| (Composition I, Composition II, and Speech) | |
| Mathematics | 3 s.h. |
| (Math for Liberal Arts) | |
| Computer Skills | 3 s.h. |
| (Introduction to Computers and Information Systems) | |
| Natural Science | 6 s.h. |
| (Inquiry Into Life Science or Biology - 3 s.h. and Physical Science - 3 s.h.) | |

| | |
|---------------------------------------------------------------------------------------|--------|
| Social Science | 6 s.h. |
| (History, Political Science, Economics or Sociology - 3 s.h. and Psychology - 3 s.h.) | |

Courses which may be taken at NIACC to complete major requirements at Upper Iowa University:

EDUCATION

| | |
|-----------------------------------------|--------|
| Developmental Psychology | 3 s.h. |
| Educational Psychology | 3 s.h. |
| Educational Technology and Design | 3 s.h. |
| Field Experience and Seminar | 1 s.h. |
| Including Diverse Learners | 3 s.h. |
| Introduction to Teaching | 3 s.h. |

Elementary Education majors may also take:

| | |
|-----------------------------|--------|
| Children's Literature | 3 s.h. |
|-----------------------------|--------|

Prekindergarten-Grade 3 majors:

(For specific curriculum, see *Early Childhood Education section*)

Waldorf College

Students planning to transfer into the Teacher Education Program need a minimum cumulative GPA of 2.50, need at least 12 semester hours of Professional Education and Content Core courses completed, need to have taken the PRAXIS I exam with scores of 171 (320 Computer) in Reading, 171 (318 Computer) in Writing, 169 (314 Computer) in Mathematics, and need good physical/mental health.

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

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

| | |
|---------------------------------------------------------|--------|
| U.S. History course (Elementary Education only) | 3 s.h. |
| *Physical Science course | 4 s.h. |
| *Inquiry Into Life Science course | 4 s.h. |
| OR *Biological Science course | 4 s.h. |
| Public Speaking | 2 s.h. |
| Developmental Psychology | 3 s.h. |
| Introduction to Teaching | 3 s.h. |
| AND Field Experience and Seminar | 1 s.h. |
| Including Diverse Learners | 3 s.h. |
| Educational Technology and Design | 3 s.h. |
| Children's Literature (Elementary Education only) | 3 s.h. |
| Educational Psychology | 3 s.h. |

* Only Elementary Education needs two sciences.

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

SCIENCE CONCENTRATION

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

MATHEMATICS CONCENTRATION

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

SPANISH CONCENTRATION

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

THEATRE CONCENTRATION

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

COACHING AUTHORIZATION/ENDORSEMENT

- Care and Prevention of Athletic Injuries2 s.h.
- Coaching Ethics Techniques and Theory1 s.h.
- Introduction to Anatomy and Physiology for Coaching1 s.h.
- Athletic Development and Human Growth.....1 s.h.

Wartburg College

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

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

ELEMENTARY EDUCATION

- Introduction to Teaching.....3 s.h.
- AND Field Experience and Seminar.....1 s.h.
- Educational Technology and Design.....3 s.h.
- Composition & Speech I and II.....8 s.h.
- Children's Literature3 s.h.
- Introductory Biology AND3 s.h.
- Introductory Biology Laboratory1 s.h.
- OR Inquiry Into Life Science4 s.h.
- Introduction to Psychology3 s.h.
- Developmental Psychology3 s.h.
- Public Speaking2 s.h.

SECONDARY EDUCATION

- Introduction to Teaching3 s.h.
- AND Field Experience and Seminar.....1 s.h.
- Educational Technology and Design.....3 s.h.
- Composition & Speech I and II.....8 s.h.
- Introduction to Psychology3 s.h.
- Developmental Psychology3 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 first year program is much the same for all professional curricula of the College of Engineering, and thus a student may transfer from one department to another within the college without undue

loss of time. The group of courses is called the **Basic Program**. 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.

Students who are not adequately prepared may have to take additional math courses, such as College Algebra, Trigonometry, and PreCalculus.

Courses which may be taken at North Iowa Area Community College to meet the requirements of the Basic Program for Professional Engineering Curricula at Iowa State University include the following:

- Calculus I and II8 s.h.
- Composition & Speech I and II8 s.h.
- General Chemistry I.....5 s.h.
- Engineering Problems with FORTRAN3 s.h.
- Classical Physics I5 s.h.
- Orientation to Engineering0 s.h.
- Library (included when completing Composition & Speech I and II)

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

- Engineering Graphics and Design.....3 s.h.
- Statics for Engineering.....3 s.h.
- Mechanics of Materials3 s.h.
- General Chemistry II.....5 s.h.
- Classical Physics II5 s.h.
- Calculus III4 s.h.
- Differential Equations with Laplace Transforms.....3 s.h.
- Organic Chemistry I and II.....5-10 s.h.

Prior to enrolling in the professional courses (200-level and above) offered by the ISU College of Engineering, students must (1) complete the basic program with a grade point average of 2.00 or better in the basic program courses, and (2) have a cumulative grade point average of 2.00 or better.

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.

The University of Iowa

Approximately one third of the course requirements in each engineering program are common to all engineering majors. These common course requirements constitute a **Core Program**. Students take most of the course in the core program during the first and second years.

Courses which may be taken at North Iowa Area Community College to meet the requirements of the Core Program for the University of Iowa Engineering Curricula include the following:

- Calculus I, II, and III12 s.h.
- Differential Equations with Laplace Transforms.....3 s.h.
- Composition & Speech I and II8 s.h.
- General Chemistry I.....5 s.h.
- Classical Physics I5 s.h.
- Engineering Problems with FORTRAN.....3 s.h.
- Engineering Graphics and Design.....3 s.h.
- Statics for Engineering.....3 s.h.

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

| | |
|---------------------------------|---------|
| General Chemistry II..... | 5 s.h. |
| Classical Physics II..... | 5 s.h. |
| Organic Chemistry I and II..... | 10 s.h. |
| Orientation to Engineering..... | 0 s.h. |
| Mechanics of Materials..... | 3 s.h. |

To transfer to the College of Engineering, students must have demonstrated success in math, science, and engineering courses, ideally earning all As and Bs with no grade lower than a C in these foundation subjects.

Transfer students must have completed Calculus I and either (1) General Chemistry I, or (2) Classical Physics I (the first semester of chemistry designed for majors, or the first semester of calculus-based physics). Overall grade point average also is considered in transfer applications.

Minnesota State University - Mankato

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

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

| | |
|--------------------------------------|---------|
| Composition I..... | 3 s.h. |
| Calculus I, II, and III..... | 12 s.h. |
| Engineering Graphics and Design..... | 3 s.h. |
| Statics for Engineering..... | 3 s.h. |
| General Chemistry..... | 5 s.h. |
| Classical Physics..... | 10 s.h. |

Recommended Humanities and Social Science Electives (consult catalog).

Also required for Electrical Engineering and Mechanical Engineering:

| | |
|-------------------------------------------------------------------|--------|
| Differential Equations with Laplace Transforms..... | 3 s.h. |
| Principles of Macroeconomics or Principles of Microeconomics..... | 3 s.h. |
| Engineering Graphics and Design..... | 3 s.h. |
| Engineering Problems with FORTRAN..... | 3 s.h. |
| Orientation to Engineering..... | 0 s.h. |
| Mechanics of Materials..... | 3 s.h. |

English

Waldorf College

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

| | |
|---------------------------------------|----------|
| Creative Writing..... | 3 s.h. |
| World Literature I or II..... | 3 s.h. |
| One semester of foreign language..... | 3-4 s.h. |
| Introduction to Philosophy..... | 3 s.h. |
| Art History I or II..... | 3 s.h. |

Environmental Science/Environmental Policy

Drake University

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

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

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

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

Exercise Science

Iowa State University

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

Graphic Arts

Grand View College

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

| | |
|-------------------------------|--------|
| Encounters in Humanities..... | 2 s.h. |
| Art Appreciation..... | 3 s.h. |

| | |
|-----------------------------------|--------|
| Art in the Elementary School..... | 3 s.h. |
| Art History I and II..... | 6 s.h. |
| Drawing..... | 3 s.h. |
| Ceramics..... | 3 s.h. |
| Graphic Design..... | 3 s.h. |
| Painting I and II..... | 6 s.h. |
| Principles of Illustration..... | 3 s.h. |
| Two-Dimensional Design..... | 3 s.h. |
| Three-Dimensional Design..... | 3 s.h. |

History

Waldorf College

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

ALL HISTORY MAJORS

| | |
|----------------------------------------|----------|
| U.S. History to 1877..... | 3 s.h. |
| U.S. History Since 1877..... | 3 s.h. |
| American National Government..... | 3 s.h. |
| Two semesters of foreign language..... | 6-8 s.h. |
| Introduction to Philosophy..... | 3 s.h. |
| Art History I or II..... | 3 s.h. |

TRADITIONAL HISTORY MAJOR

| | |
|----------------------------------------------------|--------|
| Western Civilization: Ancient to Early Modern..... | 4 s.h. |
| Western Civilization: Early Modern to Present..... | 4 s.h. |

HISTORY - POLITICAL SCIENCE MAJOR

| | |
|----------------------------------------------------|--------|
| Principles of Macroeconomics..... | 3 s.h. |
| Western Civilization: Ancient to Early Modern..... | 4 s.h. |
| Western Civilization: Early Modern to Present..... | 4 s.h. |

HISTORY - PRE-LAW MAJOR

| | |
|--------------------------------------------------------------------------------------------------------|--------|
| Principles of Accounting I..... | 4 s.h. |
| Western Civilization: Ancient to Early Modern or Western Civilization: Early Modern to Present..... | 4 s.h. |

Home Economics

University of Northern Iowa

INTERIOR DESIGN

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

TEXTILES AND APPAREL

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

Iowa State University

FAMILY AND CONSUMER SCIENCES EDUCATION

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

| | |
|------------------------------------|---------|
| Composition & Speech I and II..... | 8 s.h. |
| Western Civilization I and II..... | 8 s.h. |
| Psychology..... | 3 s.h. |
| Developmental Psychology..... | 3 s.h. |
| Introduction to Sociology..... | 3 s.h. |
| Economics..... | 3 s.h. |
| Inorganic Chemistry..... | 10 s.h. |
| Organic Chemistry..... | 4 s.h. |
| Introductory Biology..... | 4 s.h. |
| Introduction to Education..... | 3 s.h. |
| Art Appreciation..... | 3 s.h. |
| Physical Education..... | 2 s.h. |
| Nutrition..... | 3 s.h. |
| American History..... | 3 s.h. |
| American Government..... | 3 s.h. |
| Educational Psychology..... | 3 s.h. |

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

Humanities

Waldorf College

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

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

Human Services

Buena Vista University

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

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

| | |
|-----------------------------------|--------|
| Principles of Accounting I..... | 3 s.h. |
| Business Law I..... | 3 s.h. |
| Principles of Management..... | 3 s.h. |
| Principles of Marketing..... | 3 s.h. |
| Finite Math..... | 3 s.h. |
| Principles of Macroeconomics..... | 3 s.h. |

Grand View College

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

| | |
|-------------------------------------|--------|
| Introduction to Psychology..... | 3 s.h. |
| Introduction to Sociology..... | 3 s.h. |
| Social Problems..... | 3 s.h. |
| Developmental Psychology..... | 3 s.h. |
| Introduction to Human Services..... | 3 s.h. |

Upper Iowa University

RESIDENTIAL CAMPUS

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

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

Industrial Technology

University of Northern Iowa

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

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

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

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

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

CONSTRUCTION MANAGEMENT

The Bachelor of Science Degree in Construction Management demands students possess a strong understanding of math and science, business, architecture, engineering, liberal arts, and

construction science along with interrelationships between these disciplines. All of these areas of study coupled with summer work experience in the construction industry, prepare graduates for entry-level management positions in the construction industry.

Transferable NIACC Courses:

| | |
|---------|---------------------------------------------------|
| ACC-121 | Principles of Accounting I |
| BCA-101 | Introduction to Computers and Information Systems |
| PHY-162 | College Physics I |
| CHM-153 | College Chemistry I |
| CHM-166 | General Chemistry I |
| MAT-140 | Finite Math |
| MAT-210 | Calculus I |
| BUS-185 | Business Law I (elective) |
| MAT-156 | Introduction to Statistics |
| ECN-120 | Principles of Macroeconomics* |
| ECN-130 | Principles of Microeconomics* |

*Please note that two NIACC courses of 6 s.h., i.e. ECN-120 Principles of Macroeconomics (3 s.h.) and ECN-130 Principles of Microeconomics (3 s.h.), will be transferred just to satisfy one UNI course of 3 s.h.

ELECTRICAL AND INFORMATIONAL ENGINEERING TECHNOLOGY (EIET)

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

Transferable NIACC Courses:

| | |
|---------|---------------------------------------|
| MAT-128 | Precalculus |
| MAT-156 | Introduction to Statistics* |
| MAT-210 | Calculus I* |
| MAT-216 | Calculus II* |
| PHY-162 | College Physics I (4 s.h.) |
| PHY-172 | College Physics II (4 s.h.) |
| PHY-212 | Classical Physics I* |
| PHY-222 | Classical Physics II |
| ELT-115 | Electronic Concepts |
| ELT-124 | Advanced PLCs and Systems Integration |
| ELT-133 | Electric Motor Drives |
| ELT-170 | Introduction to PLC's |
| ELT-190 | Introduction to Tech Computing & CAD |
| ELT-210 | Motor Control Circuits |
| ELT-309 | Digital Circuits |
| ELT-382 | Electronic Circuit Analysis |
| ELT-550 | Analog Devices |
| ELT-710 | Computer Automated Manufacturing |
| ELT-734 | Industrial Instrumentation |
| ELT-790 | Fluid Power |
| NET-213 | CISCO Networking |
| NET-223 | CISCO Routers |
| NET-233 | CISCO Switches |
| NET-243 | CISCO Wide Area Network (WAN) |

*Course also meets UNI Liberal Arts Core requirements.

TECHNOLOGY EDUCATION - TEACHING

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

Transferable NIACC Courses:

- EDU-216 Introduction to Teaching
- PSY-121 Developmental Psychology
- PSY-281 Educational Psychology
- EDU-242 Classroom Assessment
- EDU-246 Including Diverse Learners

TECHNOLOGY EDUCATION - TRAINING

The Technology Training Option prepares you to go into a Human Resource Development position in a business or industry that is focused on technology. In this capacity you will be involved in providing training and development for persons in the organization.

MANUFACTURING TECHNOLOGY

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

Transferable NIACC Courses:

- CHM-116 General Chemistry I
- CHM-153 College Chemistry I
- PHY-162 College Physics I
- PHY-172 College Physics II
- MAT-156 Introduction to Statistics
- MAT-210 Calculus I

TECHNOLOGY MANAGEMENT

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

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

Information Systems Technology/MIS

Buena Vista University

MIS

- Completion of IST program at NIACC with the following courses: 40-44 s.h.
- Composition & Speech I and II 8 s.h.
 - Principles of Accounting I and II 6 s.h.
 - Principles of Management 3 s.h.
 - Business Law I 3 s.h.
 - Finite Math 3 s.h.

- Principles of Marketing 3 s.h.
- Business Statistics 3 s.h.
- Management Information Systems (recommended)..... 3 s.h.
- Principles of Macroeconomics 3 s.h.
- Principles of Microeconomics 3 s.h.

Drake University

INFORMATION SYSTEMS

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

* Calculus I may be taken instead of Calculus.

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

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

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

Iowa State University

- IST Major Courses 40-44 s.h.
- Composition & Speech I and II 8 s.h.
- Principles of Accounting I and II 6 s.h.
- Principles of Microeconomics 3 s.h.
- Principles of Macroeconomics 3 s.h.
- Finite Math 3 s.h.

Simpson College

COMPUTER INFORMATION SYSTEMS

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

- Business Statistics or Introduction to Statistics 3 s.h.
- Calculus I 8 s.h.
- Introduction to Business or
 - Principles of Management 3 s.h.
 - Principles of Macroeconomics 3 s.h.
- Principles of Microeconomics 3 s.h.
- Principles of Accounting I 3 s.h.
- Principles of Accounting II 3 s.h.

University of Northern Iowa

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

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Finite Math | 3 s.h. |
| Principles of Macroeconomics | 3 s.h. |
| Principles of Accounting I or II, Business Statistics, Principles of Microeconomics, or Intro to Computers and Information Systems | 3 s.h. |
| Physical Education..... | 2 s.h. |

Upper Iowa University

| | |
|--------------------------------------|------------|
| IST Major Courses..... | 40-44 s.h. |
| Composition & Speech I and II..... | 8 s.h. |
| Introduction to Ethics | 3 s.h. |
| Principles of Macroeconomics | 3 s.h. |
| Principles of Microeconomics | 3 s.h. |
| Management Information Systems | 3 s.h. |
| Introduction to Statistics..... | 3 s.h. |

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

Journalism

Drake University

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

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

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

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

Iowa State University

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

Simpson College

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

| | |
|------------------------------------|--------|
| Composition & Speech I and II..... | 8 s.h. |
| Newswriting and Reporting..... | 3 s.h. |

See advisor for a separate list of general education requirements.

The University of Iowa

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

| | |
|--------------------------------------|-----------|
| Principles of Economics..... | 6 s.h. |
| Psychology..... | 3 s.h. |
| Foreign Language (fourth level)..... | 0-16 s.h. |
| Government | 3 s.h. |
| Introduction to 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 law programs of study which are adaptable to the requirements of any designated major, as well as an interdisciplinary major in Law, Politics & Society.

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

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

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

The University of Iowa

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

| | |
|----------------------------------------------------|-----------|
| Composition & Speech I and II..... | 8 s.h. |
| Western Civilization..... | 8 s.h. |
| Foreign Language (fourth level)..... | 0-16 s.h. |
| Introduction to Sociology and Social Problems..... | 6 s.h. |
| World Literature..... | 6 s.h. |
| Mathematics..... | 3-5 s.h. |
| Science..... | 4-5 s.h. |
| Principles of Accounting I and II..... | 6 s.h. |
| Psychology..... | 6 s.h. |
| Economics..... | 6 s.h. |
| American Government..... | 6 s.h. |
| Introduction to Ethics..... | 3 s.h. |

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

Liberal Arts

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 are provided on page 5 of the catalog.

Marketing

Simpson College

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

| | |
|--------------------------------------------------------|--------|
| Principles of Microeconomics..... | 3 s.h. |
| Business Statistics or Introduction to Statistics..... | 3 s.h. |
| Principles of Accounting I and II..... | 6 s.h. |
| Introduction to Business OR | |
| Principles of Management..... | 3 s.h. |
| Business Law I and II..... | 6 s.h. |
| Principles of Marketing..... | 3 s.h. |
| Principles of Advertising..... | 3 s.h. |
| Principles of Selling..... | 3 s.h. |

**Medical Technology
(Clinical Lab Science)**

To qualify for training at a school for medical technologists approved by the American Medical Association, a student must have at least three years of college work which includes the successful completion of at least 94 semester hours of work.

Courses for Medical Technology (Clinical Lab Science) which may be obtained at North Iowa Area Community College are listed below:

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

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

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

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

Mortuary Science

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

Recommended courses:

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

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

Music

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

| | |
|--------------------------------------|----------|
| Literature..... | 6 s.h. |
| Foreign Language..... | 0-8 s.h. |
| Composition & Speech I and II..... | 8 s.h. |
| Music Theory I, II, III, and IV..... | 12 s.h. |
| Aural Skills I, II, III and IV..... | 8 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. |
| Introduction to Sociology..... | 3 s.h. |
| Developmental Psychology..... | 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 Appreciation..... | 3 s.h. |
| Music Theory I..... | 3 s.h. |
| Music Theory II..... | 3 s.h. |
| Music Theory III..... | 3 s.h. |
| Music Theory IV..... | 3 s.h. |
| Aural Skills I..... | 2 s.h. |
| Aural Skills II..... | 2 s.h. |
| Aural Skills III..... | 2 s.h. |
| Aural Skills IV..... | 2 s.h. |
| Applied Music Piano..... | 1-2 s.h. |
| Applied Music Voice..... | 1-2 s.h. |
| Applied Music Instrumental..... | 1-2 s.h. |
| Concert Chorus..... | 1-4 s.h. |
| Band..... | 1-4 s.h. |
| Jazz Band..... | 1-4 s.h. |

Waldorf College

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

| | |
|-----------------------|--------|
| Music Theory I..... | 3 s.h. |
| Music Theory II..... | 3 s.h. |
| Music Theory III..... | 3 s.h. |
| Music Theory IV..... | 3 s.h. |
| Aural Skills I..... | 2 s.h. |
| Aural Skills II..... | 2 s.h. |
| Aural Skills III..... | 2 s.h. |
| Aural Skills IV..... | 2 s.h. |

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

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

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

Nursing

Grand View College

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

| | |
|--------------------------------------|--------|
| Introduction to Psychology..... | 3 s.h. |
| Introduction to Sociology..... | 3 s.h. |
| Developmental Psychology..... | 3 s.h. |
| Biology I..... | 4 s.h. |
| Microbiology..... | 4 s.h. |
| Nutrition..... | 3 s.h. |
| Introduction to Statistics..... | 3 s.h. |
| College Algebra..... | 4 s.h. |
| Anatomy and Physiology I and II..... | 8 s.h. |

The University of Iowa

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

This program is designed for associate degree registered nurses who desire a BSN degree. The University of Iowa College of Nursing offers its RN-BSN Progression program in collaboration with NIACC. Prerequisite course work can be completed locally or with NIACC online courses in preparation for the online BSN Nursing major.

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

Students enrolling in supporting and general education courses at NIACC are strongly encouraged to seek early advising with the RN-BSN Faculty Coordinator. For further information contact the College of Nursing at 1-800-272-6430, ext. 59214, or the RN-BSN Faculty Coordinator located on the NIACC campus at 1-888-466-4222, ext. 4338. Visit www.nursing.uiowa.edu for the College of Nursing web site; choose Academic Programs, Undergraduate, and RN-BSN to find information regarding this program.

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

Prospective students are strongly encouraged to seek early advising with the University of Iowa College of Nursing. The baccalaureate degree nursing student should take the following courses at NIACC:

| | |
|--------------------------------------------------------------|----------|
| Composition & Speech I and II..... | 8 s.h. |
| Survey of Physics or Physical Science*..... | 4 s.h. |
| Introduction to General Chemistry or College Chemistry*..... | 4 s.h. |
| Biology..... | 4 s.h. |
| Psychology..... | 3 s.h. |
| Anatomy and Physiology I and II..... | 8 s.h. |
| Microbiology..... | 4 s.h. |
| Humanities, Fine Arts, Philosophy**..... | 6 s.h. |
| Western Civilization..... | 4 s.h. |
| Introduction to Statistics**..... | 3 s.h. |
| Developmental Psychology..... | 3 s.h. |
| Cultural Anthropology or Cultural Diversity**..... | 3 s.h. |
| Foreign Language*..... | 0-8 s.h. |

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

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

Admission to the undergraduate Bachelor of Science in Nursing program is competitive. For more information, visit the website at www.nursing.uiowa.edu.

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.

| | |
|---------------------------------------------------|--------|
| Introductory Biology and Lab..... | 4 s.h. |
| Introduction to General Chemistry OR | |
| Survey of Physics and Lab..... | 4 s.h. |
| Composition I..... | 3 s.h. |
| Public Speaking..... | 2 s.h. |
| Introduction to Psychology..... | 3 s.h. |
| Developmental Psychology..... | 3 s.h. |
| Abnormal Psychology..... | 3 s.h. |
| Literature..... | 3 s.h. |
| Philosophy..... | 3 s.h. |
| Art, Music, Theater..... | 6 s.h. |
| American History..... | 3 s.h. |
| Medical Terminology..... | 1 s.h. |
| Anatomy and Physiology..... | 8 s.h. |
| Introduction to Sociology..... | 3 s.h. |
| Introduction to Computer/Information Systems..... | 3 s.h. |
| Introduction to Statistics..... | 3 s.h. |
| Introduction to Ethics..... | 3 s.h. |

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

1. Complete the prerequisite course work prior to beginning the MOT program.
2. Have a minimum "computed" grade point average of 2.8 (on a 4.0 scale) at the time of application and enrollment in the professional program.
3. Submit three letters of reference on the official forms available in the application packet. These references should be from persons familiar with the applicant's qualities related to becoming an occupational therapist.

4. Provide documentation of 50 hours of OT volunteer experience completed in at least two different OT settings. This documentation should be submitted with the application, should be on official letterhead, and should be signed by a registered OT, or the applicant may submit documentation of employment in an occupational therapy setting.
5. Complete an on-campus interview.
6. Applications are accepted throughout the year for the following fall until the class is filled.
7. If students plan to complete their baccalaureate degree while enrolled in the MOT program, applicants should have completed all but six of the general education requirements by the time of acceptance into the program. They will also need to complete all the major requirements for their baccalaureate degree prior to enrolling in the third year of the MOT program. Students may need to enroll in a summer and interim session to complete this course of study in five years.

Optometry

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

| | |
|--------------------------------------|-----------|
| Composition & Speech I and II..... | 8 s.h. |
| Biology I and II..... | 8 s.h. |
| Physics..... | 8 s.h. |
| Inorganic Chemistry..... | 10 s.h. |
| Psychology..... | 3 s.h. |
| Humanities Elective(s)..... | 6 s.h. |
| Social Science Elective(s)..... | 3 s.h. |
| Organic Chemistry..... | 4-10 s.h. |
| Microbiology..... | 4 s.h. |
| Anatomy and Physiology I and II..... | 8 s.h. |
| 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

COLLEGE OF PHARMACY AND HEALTH SCIENCES

Drake University offers admission to transfer applicants into the College of Pharmacy and Health Sciences at the professional program (PharmD) level, and admission is only granted for the Fall semester. Admission is not offered to transfer applicants at the pre-professional level.

Students who have completed approximately 60 semester hours of academic credit in general education course work (including public speaking and two semesters of English writing), plus courses in calculus, general biology, microbiology, two semesters of organic chemistry (with lab), statistics and computing by the start of the fall semester generally will be considered for admission to the professional program. Detailed information on prerequisites and admission criteria is provided at www.pharmacy.drake.edu.

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

| | |
|----------------------------------------------------------|---------|
| Composition I | 3 s.h. |
| Speech..... | 2 s.h. |
| *General Chemistry I and II | 10 s.h. |
| *Organic Chemistry I and II | 10 s.h. |
| *Introductory Biology I and II | 8 s.h. |
| *Microbiology | 4 s.h. |
| *Calculus I..... | 4 s.h. |
| *Introduction to Statistics | 3 s.h. |
| *Introduction to Computers and Information Systems | 3 s.h. |

*Required for entry into the professional program.

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

The University of Iowa

The University of Iowa College of Pharmacy accepts approximately 108 students each year to the Doctor of Pharmacy (Pharm.D.) Program. Admission to this professional program is competitive and is based on academic performance, community service and volunteer work, and commitment to the profession of pharmacy.

Application deadline:

All application material must be received by the application deadline (normally the first week in January for fall entry into the College of Pharmacy).

Procedures:

PharmCAS - Pharmacy College Application Service is used by The University of Iowa to process applications electronically.

1. Candidates apply online via PharmCAS at <http://www.pharmacas.org> in the fall semester prior to the year in which they are seeking admission.
2. A supplemental application and supplemental application fee of \$100 must be submitted by the January application deadline.
3. A minimum cumulative GPA of 2.5 is required to apply. Before entry into the Pharm. D. program, satisfactory completion of all pre-professional course work and at least 12 semester hours (s.h.) of general education electives are required. A maximum of one prerequisite course and one general education course required to complete 12 s.h. may be completed in the summer before entry into the College of Pharmacy.

NOTE: A total of 20 s.h. of general education elective courses are required for **graduation**. Students are strongly encouraged to complete all 20 s.h. of general education electives before entering the first pharmacy year.

4. Part of the PharmCAS application is a personal essay, approximately one page in length, addressing why you selected Pharmacy as a career and how the Doctor of Pharmacy degree relates to your immediate and long-term professional goals. You should explain why you want to be a pharmacist, and support this information with autobiographical details including pharmacy, health care, work or volunteer experiences, related extracurricular activities, leadership roles, or any other important information.
5. The Pharmacy College Admission Test (PCAT), www.pcatweb.info, is required. Scores **must** be sent to PharmCAS, their code number is 104. We will not accept scores sent directly to the University of Iowa. The PCAT must be taken no later than October prior to the application deadline. **The test must be completed prior to the January application deadline.** Scores from the January PCAT will NOT be accepted for Fall admission. Preregistration for the exam is required, please follow dates listed on the PCAT web site. The College of Pharmacy accepts PCAT scores a **maximum** of 2 years old.
6. Two letters of reference are required. They should be processed through the PharmCAS application service. Electronic submission is preferred.
7. Personal interviews will be required. Candidates will be contacted by the college if selected for an interview.

Admission to The University of Iowa College of Pharmacy is competitive. Completion of these requirements does NOT guarantee admission.

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

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

| | |
|--------------------------------------|---------|
| Biology I and II | 8 s.h. |
| Composition & Speech I and II | 8 s.h. |
| General Chemistry I and II | 10 s.h. |
| Calculus I | 4 s.h. |
| *Survey of Physics | 4 s.h. |
| Organic Chemistry I and II | 10 s.h. |
| Anatomy & Physiology I and II | 8 s.h. |
| Microbiology | 4 s.h. |
| Principles of Microeconomics | 3 s.h. |
| Introduction to Statistics..... | 3 s.h. |
| **General Education Elective(s)..... | 12 s.h. |

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

**A minimum of 12 s.h. of general education electives required for admission. Total of 20 s.h. required for graduation. It is best to complete all 20 s.h. before starting the Pharmacy program. Recommended electives include Computer Science and an Ethics course.

Physical Education

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

| | |
|---------------------------------------------------------------------------------------------------|--------|
| Composition & Speech I and II | 8 s.h. |
| Sports Officiating: Fall and Winter Sports; Sports Officiating: Spring and Summer Sports | 4 s.h. |
| Introduction to Physical Education | 2 s.h. |
| Anatomy and Physiology I and II | 8 s.h. |
| First Aid | 1 s.h. |
| Introduction to Teaching | 3 s.h. |
| AND Field Experience and Seminar | 1 s.h. |
| Developmental Psychology | 3 s.h. |
| Psychology | 3 s.h. |
| American History or American Government | 3 s.h. |
| Care and Prevention of Athletic Injuries | 2 s.h. |
| Educational Technology and Design | 3 s.h. |
| Health and Nutrition | 3 s.h. |
| Humanities Elective(s) | 8 s.h. |
| Educational Psychology | 3 s.h. |

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

Iowa State University

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

GENERAL EDUCATION

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

TEACHER LICENSURE

| | |
|----------------------------------------|--------|
| Introduction to Teaching | 3 s.h. |
| AND Field Experience and Seminar | 1 s.h. |
| First Aid | 1 s.h. |
| Developmental Psychology | 3 s.h. |
| Nutrition | 3 s.h. |
| Educational Psychology | 3 s.h. |

EXERCISE SCIENCE

| | |
|----------------------------------------------|--------|
| Survey of Physics OR College Physics I | 4 s.h. |
| College Chemistry I | 4 s.h. |
| College Chemistry I Lab | 1 s.h. |
| Nutrition | 3 s.h. |

ATHLETIC TRAINING

| | |
|----------------------------------------------|--------|
| Survey of Physics OR College Physics I | 4 s.h. |
| College Chemistry I | 4 s.h. |
| College Chemistry I Lab | 1 s.h. |
| Nutrition | 3 s.h. |

Simpson College

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

| | |
|---------------------------------------------------------------------------------------------------|--------|
| Intro to Physical Education | 2 s.h. |
| Care & Prevention of Athletic Injuries | 2 s.h. |
| First Aid | 1 s.h. |
| Kinesiology | 3 s.h. |
| Sports Officiating: Fall and Winter Sports; Sports Officiating: Spring and Summer Sports | 4 s.h. |
| Biology I or Biology II | 4 s.h. |
| Anatomy and Physiology | 8 s.h. |

Upper Iowa University

RESIDENTIAL CAMPUS

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

FITNESS MAJOR

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

SPORTS SCIENCE MAJOR

| | |
|----------------------------------|--------|
| College Chemistry I | 5 s.h. |
| College Chemistry II | 5 s.h. |
| Nutrition | 3 s.h. |
| Anatomy and Physiology I | 4 s.h. |
| Kinesiology | 3 s.h. |
| College Physics I | 4 s.h. |
| Organic Chemistry I | 5 s.h. |
| Introduction to Statistics | 3 s.h. |

ATHLETIC TRAINING

| | |
|----------------------------------|--------|
| Nutrition | 3 s.h. |
| Kinesiology | 3 s.h. |
| Introduction to Psychology | 3 s.h. |

Physical Science

Grand View College

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

| | |
|-----------------------------------------------------------------|-----------|
| Biology I and II | 8 s.h. |
| General Chemistry I and II | 10 s.h. |
| Organic Chemistry I and II | 8 s.h. |
| College Physics I and II or Classical Physics I and II | 8-10 s.h. |
| Computer Business Applications | 3 s.h. |
| Differential Equations with Laplace | 3 s.h. |
| Engineering Problems with FORTRAN | 3 s.h. |
| or Engineering Graphics and Design | 3 s.h. |

Physical Therapy

The University of Iowa

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

| | |
|--------------------------------------|-----------|
| Composition & Speech I and II..... | 8 s.h. |
| Biology I and II..... | 8 s.h. |
| Chemistry..... | 10 s.h. |
| Physics..... | 8 s.h. |
| Psychology..... | 3 s.h. |
| Developmental Psychology..... | 3 s.h. |
| Precalculus..... | 4 s.h. |
| Foreign Language..... | 0-16 s.h. |
| Anatomy and Physiology I and II..... | 8 s.h. |
| Introduction to Statistics..... | 3 s.h. |

General education courses to complete the Associate in Arts Degree. Work experience in a physical therapy setting is very important as an admissions criterion.

Physician

The University of Iowa

Prior to entrance into medical school, each applicant must have received the baccalaureate degree. The Medical College Admissions Test (MCAT) will need to be taken. Courses which should be taken at North Iowa Area Community College are:

| | |
|------------------------------------|-----------|
| Composition & Speech I and II..... | 8 s.h. |
| General Chemistry I and II..... | 10 s.h. |
| Organic Chemistry I and II..... | 10 s.h. |
| Precalculus..... | 4 s.h. |
| Physics..... | 8 s.h. |
| Foreign Language..... | 0-16 s.h. |
| Biology I and II..... | 8 s.h. |
| Psychology..... | 3 s.h. |
| Developmental Psychology..... | 3 s.h. |

General education to complete Associate in Arts Degree.

Physician Assistant

The University of Iowa

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

| | |
|---------------------------------------------------|-----------|
| Composition & Speech I and II..... | 8 s.h. |
| General Chemistry I and II..... | 10 s.h. |
| Organic Chemistry..... | 10 s.h. |
| Biology I and II..... | 8 s.h. |
| Precalculus..... | 4 s.h. |
| Physics (recommended)..... | 8 s.h. |
| Foreign Language..... | 0-16 s.h. |
| Foreign Civilization & Culture (recommended)..... | 3 s.h. |
| Introduction to Statistics..... | 3 s.h. |

General education electives to complete Associate in Arts Degree.

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

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

Physics - Applied

University of Northern Iowa

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

Applied Physics/Engineering: Students may pursue a dual-degree major leading to a B.S. Applied Physics Degree from UNI and a B.S. Engineering Degree from Iowa State University or the University of Iowa (see Engineering).

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

| | | |
|---------|-----------------------------------------------------|--------|
| EGT-129 | Statics for Engineering..... | 3 s.h. |
| EGT-119 | Mechanics of Materials..... | 3 s.h. |
| MAT-210 | Calculus I..... | 4 s.h. |
| MAT-216 | Calculus II..... | 4 s.h. |
| MAT-219 | Calculus III..... | 4 s.h. |
| MAT-226 | Differential Equations with Laplace Transforms..... | 3 s.h. |
| CHM-166 | General Chemistry I..... | 5 s.h. |
| CHM-176 | General Chemistry II..... | 5 s.h. |
| PHY-212 | Classical Physics I..... | 5 s.h. |
| PHY-222 | Classical Physics II..... | 5 s.h. |

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

Political Science

Simpson College

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

| | |
|------------------------------------------|--------|
| American National Government..... | 3 s.h. |
| American State and Local Government..... | 3 s.h. |
| International Relations..... | 3 s.h. |

Psychology

| | |
|--------------------------------------|--------|
| Introduction to Psychology..... | 3 s.h. |
| Child and Adolescent Psychology..... | 3 s.h. |

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

Buena Vista University

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

| | |
|--------------------------------------------------------|--------|
| Introduction to Psychology..... | 3 s.h. |
| Child and Adolescent Psychology (as an elective) | 3 s.h. |
| or | |
| Developmental Psychology..... | 3 s.h. |

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:

| | |
|---------------------------------------------------------|--------|
| Business Statistics or Introduction to Statistics | 3 s.h. |
| Introduction to Psychology..... | 3 s.h. |
| Composition & Speech I and II..... | 8 s.h. |
| OR Composition I and II..... | 6 s.h. |

Complete additional courses to satisfy A.A. Degree.

Upper Iowa University

RESIDENTIAL CAMPUS

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

| | |
|--------------------------------------|--------|
| Introduction to Psychology..... | 3 s.h. |
| Introduction to Human Services..... | 3 s.h. |
| Child and Adolescent Psychology..... | 3 s.h. |
| Developmental Psychology..... | 3 s.h. |
| Introduction to Statistics..... | 3 s.h. |

Public Relations

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

Radiology

(Four-Year Degree)

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

| | |
|-----------------------------------------|--------|
| Biology I and II..... | 8 s.h. |
| Anatomy and Physiology I and II..... | 8 s.h. |
| Composition & Speech I and II..... | 8 s.h. |
| Western Civilization | 8 s.h. |
| College Algebra..... | 4 s.h. |
| Trigonometry and Analytic Geometry..... | 3 s.h. |

| | |
|----------------------------------|--------|
| Philosophy | 3 s.h. |
| College Physics I and II | 8 s.h. |
| Chemistry..... | 8 s.h. |
| Social Science Elective(s) | 6 s.h. |

Recreation

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

| | |
|-----------------------------------------------------------------------------------------------|--------|
| Composition & Speech I and II..... | 8 s.h. |
| Sports Officiating: Fall and Winter Sports; Sports Officiating: Spring and Summer Sports..... | 4 s.h. |
| Introduction to Physical Education..... | 2 s.h. |
| Psychology..... | 3 s.h. |
| Developmental Psychology..... | 3 s.h. |
| Art Appreciation..... | 3 s.h. |
| Introduction to Teaching..... | 3 s.h. |
| Health and Nutrition | 3 s.h. |
| First Aid..... | 1 s.h. |
| Care and Prevention of Athletic Injuries | 2 s.h. |
| Educational Technology and Design..... | 3 s.h. |

Social Work

General education includes the following courses:

| | |
|-----------------------------------------------|--------|
| Composition & Speech I and II..... | 8 s.h. |
| Introduction to Sociology | 3 s.h. |
| Social Problems | 3 s.h. |
| Marriage and Family | 3 s.h. |
| Psychology..... | 3 s.h. |
| Natural Science/Mathematics Elective(s) | 8 s.h. |
| Humanities Elective(s) | 6 s.h. |
| Developmental Psychology..... | 3 s.h. |
| Principles of Macroeconomics | 3 s.h. |
| Public Speaking | 2 s.h. |
| American History..... | 6 s.h. |

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

Wartburg College

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

Sports Administration

Simpson College

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

Theatre

| | |
|-----------------------------------------------------|--------|
| Composition & Speech I and II | 8 s.h. |
| Introduction to Theatre, Television, and Film | 3 s.h. |
| Introduction to Acting | 3 s.h. |
| Public Speaking | 2 s.h. |
| Poetry and Drama | 3 s.h. |
| Short Story and Novel | 3 s.h. |
| World Literature I and II | 6 s.h. |
| Oral Interpretation | 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 | 3 s.h. |
| Introduction to Theatre, TV, and Film | 3 s.h. |
| Introduction to Acting | 3 s.h. |

Also required for Theatre Arts with Education program:

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

Waldorf College

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

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

Veterinary Medicine

Iowa State University

(GPA is a competitive factor for admission.)

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

Credits earned must include the following:

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

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

Visual Arts

Grand View College

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

| | |
|--------------------------------|--------|
| Art History I and II | 6 s.h. |
| Drawing I and II | 6 s.h. |
| Two-Dimensional Design | 3 s.h. |
| Three-Dimensional Design | 3 s.h. |
| Encounters in Humanities | 2 s.h. |
| Art Appreciation | 3 s.h. |
| Ceramics | 3 s.h. |
| Graphic Design I and II | 6 s.h. |
| Painting I and II | 6 s.h. |

Wellness

Waldorf College

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

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

Students could also complete additional course work for:

SCIENCE/RESEARCH TRACK

| | |
|----------------------------|--------|
| General Chemistry II | 4 s.h. |
| Biology I | 4 s.h. |
| Biology II | 4 s.h. |

CHILDREN'S WELLNESS TRACK

| | |
|----------------------------------|--------|
| Including Diverse Learners | 3 s.h. |
| Educational Media | 3 s.h. |