



North Iowa Area Community College

2006-2007

General Catalog & Student Handbook

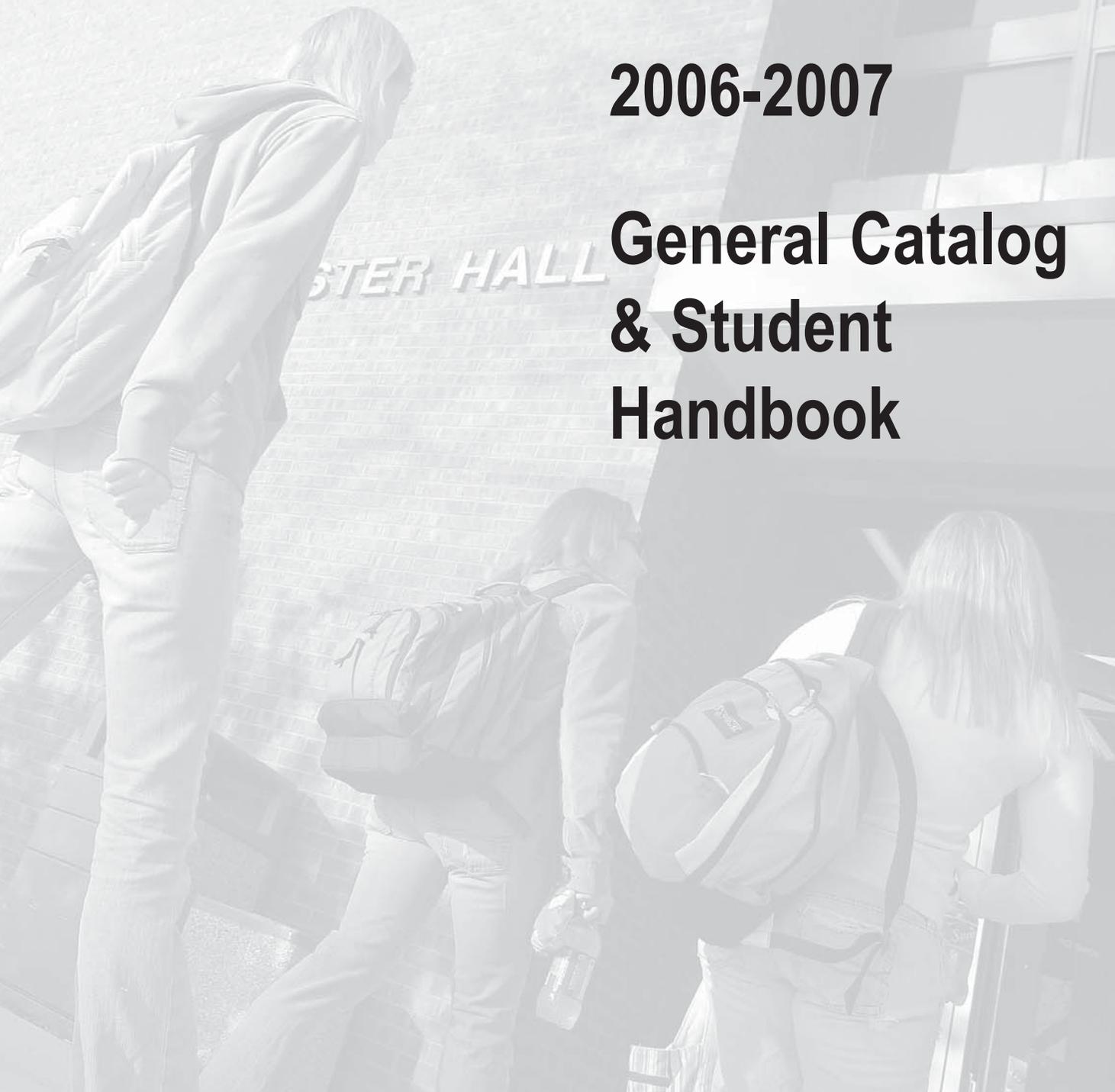


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This catalog is published for informational purposes and should not be construed as the basis of a contract between a student and North Iowa Area Community College. Every effort is made to provide information that is accurate at the time the catalog is prepared. However, information concerning regulations, policies, fees, curricula, courses, and other matters contained in this catalog is subject to change at any time during the period for which the catalog is in effect.

**For more information about opportunities at North Iowa Area Community College, call the Admissions Office at (641) 422-4245 or 1-888 GO NIACC (466-4222), Ext. 4245.
Address: 500 College Drive, Mason City, IA 50401
Web Site: www.niacc.edu
E-mail: request@niacc.edu**



General Information

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General Information

LOCATION AND HISTORY

The North Iowa Area Community College (NIACC) is located just off Highway 122, four miles east of downtown Mason City, Iowa, a community of 30,000 which serves as an active business center for northern Iowa and southern Minnesota. The community is served by the Mason City airport and a bus line.

The North Iowa Area Community College District (Area 2) was formed in 1966 in compliance with laws enacted by the 1965 Iowa Legislature, which provided for the delivery of postsecondary education in Iowa.

The NIACC Board of Directors assumed operation of Mason City Junior College, which was the first public two-year college in Iowa and one of the earliest in the country having been established in 1918 by the Mason City Independent School District.

Construction of the present campus began in 1970. A campus directory can be found in the back of this catalog.

ACCREDITATION AND APPROVAL

North Iowa Area Community College has been accredited since 1919 by The Higher Learning Commission of the North Central Association, 30 North LaSalle Street, Suite 2400, Chicago, IL 60602, (800) 621-7440.

BOARD OF DIRECTORS

David Steffens, Jr., President, Norsemen Trucking, Inc., Lake Mills, Board President, 2000-2006

Jean Torgeson, R.N., Certified Legal Nurse Consultant, Manly, Board Vice President, 2001-2007

John Heilskov, CPA, Hampton, 2002-2008

Karen Knudtson, Realtor, Mason City, 1989-2008

Colin Robinson, Retired, Charles City, 1997-2006

Dean Cataldo, Retired, Garner, 2003-2008

Gordon Anderson, Retired, Osage, 2004-2007

Doug Morse, Senior V.P. Network and Clinic Management, Mercy Medical Center - North Iowa, Mason City, 2004-2007

Jim Niemants, Investment Representative, SWS Financial Services, Clear Lake, 2005-2006

Sandra Gobeli, Secretary and Treasurer, North Iowa Area Community College

MISSION OF THE COLLEGE

Philosophy

North Iowa Area Community College believes that education, which has as its overriding goal the optimum development of all human potential, is the foundation of a democratic society.

Mission Statement

The mission of the North Iowa Area Community College is to enhance the quality of life for people of North Iowa through comprehensive educational opportunities, progressive partnerships, exemplary service, and responsive leadership.

INSTITUTIONAL PURPOSES

Within the human, financial, and physical resources entrusted to the North Iowa Area Community College, the institution strives to achieve the following goals:

- Enhance the human potential of students by assisting them to acquire the knowledge and tools necessary to understand and enrich their environment and contribute to their communities in a positive way. This becomes manifest through the development of general education skills and abilities.
- Ensure that all citizens of the North Iowa region, regardless of their educational and socioeconomic backgrounds, geographic placement, or needs for special assistance, have the opportunity and the necessary support to take advantage of post-secondary educational programs and other services offered by the College.
- Enable individuals to complete the first two years of a baccalaureate program and, upon successful completion, to achieve efficient and effective transfer to senior colleges.
- Ensure that individuals have opportunities to prepare themselves for employment in occupations in demand in a global society.
- Ensure that all individuals have opportunities to continue learning throughout their lifetimes.
- Promote a strong economy by engaging in activities which develop and maintain a skilled and educated workforce and which promote and support entrepreneurial activity.
- Extend the reach of College resources through progressive partnerships with agencies and entities in communities served by the College.
- Build community by promoting understanding, appreciation, cooperation, and communication among diverse individuals.
- Instill confidence and pride in all who come into contact with the College by fostering a commitment to excellence in all College endeavors.

GENERAL EDUCATION***Philosophy***

Education is the foundation of a democratic society. General education engages students in an ongoing endeavor to acquire the knowledge and tools necessary to understand their environment and contribute to their communities.

Definition

A collection of diverse experiences in learning that teach generalized skills in communication, critical analysis, research, global awareness, interpersonal relations, aesthetics, math, and technology and survey subject matter to allow for applications of this learning in the classroom and community.

General Education Program

The General Education program at NIACC is based on eight learning objectives:

1. **Communication and Interpersonal Skills:** Students will possess appropriate reading, writing, speaking, listening and interpersonal skills to interact with others and express themselves effectively through written, oral, visual, and electronic methods.
2. **Quantitative Skills:** Students will use quantitative skills and the concepts and methods of mathematics to solve problems across disciplines.
3. **Critical Thinking:** Students will demonstrate goal-directed reasoning to arrive at valid conclusions, meaningful solutions, and informed evaluations.
4. **Information Literacy:** Students will be able to locate and use information from a variety of appropriate sources to support their judgments and arguments.
5. **Technological Skills:** Students will demonstrate the ability to access, understand, manage, and use technology needed to solve problems and extend human capabilities.
6. **Global Awareness:** Students will become familiar with the languages, history, geography, and social norms of other cultures, in order to foster cooperation, understanding, and appreciation.
7. **Aesthetics:** Students will create, appreciate, understand, and evaluate the nature and value of the fine arts or elements of craftsmanship.
8. **Scientific Literacy:** Students will demonstrate knowledge and understanding of scientific concepts and processes required for personal decision making and responsible participation in civic affairs.

These learning objectives are addressed in the General Education core of each degree program.

DEGREE REQUIREMENTS**Associate Degrees****Associate in Arts**

Purposes of the degree:

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 include:

1. Completion of at least sixty (60) semester hours of work consisting of courses whose principal design is for a baccalaureate program. Up to 16 semester hours of career courses can be used as elective credit. Developmental courses cannot be used to meet this requirement.
2. One-half of the required semester hours must be completed under the aegis of North Iowa Area Community College including 15 of the last 30 semester hours.
3. A minimum overall cumulative grade point average of 2.00 (C) including a 2.00 (C) cumulative grade point average in all course work at NIACC. Developmental courses are not used in calculating the cumulative grade point average for graduation.
4. Completion of the following General Education Core with a minimum of 40 semester hours:

Communication 8 s.h.

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

Social Sciences 8 s.h.

Humanities 8 s.h.

Performance courses such as vocal and instrumental music may satisfy no more than four hours of this requirement.

Natural Science/Mathematics* 8 s.h.

(including at least one math and at least one science course)

Distributed Requirement 8 s.h.

(to be taken from among the four divisions above)

*It is recommended that students take a minimum of four semester hours of laboratory science.

5. Completion of the Academic Profile examination during the student's final semester prior to graduation.

Associate in Science

The purpose of the Associate in Science Degree is to provide a degree goal for students who choose to follow a Natural Science degree program.

Requirements for the degree include:

1. Completion of at least sixty (60) semester hours of work consisting of courses whose principal design is for a baccalaureate program. Up to 16 semester hours of career courses can be used as elective credit. Developmental courses cannot be used to meet this requirement.
2. One-half of the required semester hours must be completed under the aegis of North Iowa Area Community College including 15 of the last 30 semester hours.
3. A minimum overall cumulative grade point average of 2.00 (C) including a 2.00 (C) cumulative grade point average in all course work at NIACC. Developmental courses are not used in calculating the cumulative grade point average for graduation.
4. Completion of the following General Education Core with a minimum of 37 semester hours:
 - Communication. 8 s.h.
 - Social Sciences/Humanities 9 s.h.
 - Natural Science/Mathematics. 20 s.h.

(must include at least one math and at least one science course)
5. Completion of the Academic Profile examination during the student's final semester prior to graduation.

Associate in Science (Business)

The purpose of the Associate in Science (Business) Degree is to provide a degree goal for students who choose to follow a course of study designed to give the student the option of obtaining employment in business or transferring to a four-year institution. Students who know they wish to pursue a four-year degree and want to meet general education requirements of transfer institutions should pursue the A.A. Degree.

Requirements for the degree include:

1. Completion of at least sixty (60) semester hours of work consisting of courses whose principal design is for a baccalaureate program. Up to 16 semester hours of career courses can be used as elective credit. Developmental courses cannot be used to meet this requirement.
2. One-half of the required semester hours must be completed under the aegis of North Iowa Area Community College including 15 of the last 30 semester hours.
3. A minimum overall cumulative grade point average of 2.00 (C) including a 2.00 (C) cumulative grade point average in all course

work at NIACC. Developmental courses are not used in calculating the cumulative grade point average for graduation.

4. Completion of a minimum of 30 semester hours in designated business courses. See pages 128-129 for a list of courses.
5. Completion of the following General Education Core:
 - Communication. 8 s.h.

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

 - Social Sciences and/or Humanities 9 s.h.
 - Natural Science/Mathematics. 3 s.h.
6. Completion of the Academic Profile examination during the student's final semester prior to graduation.

Associate in Applied Science

Purposes of the degree include:

1. Provide a degree goal for students who choose to follow a course of study which is specifically designed to lead to employment upon completion of two years of study.
2. Provide the student with an entry skill level appropriate to the career for which he/she has been preparing.
3. Provide the student with general education skills: communication, social science and/or humanities, and math and/or science.

Requirements for the degree include:

1. Completion of at least sixty (60) semester hours of a prescribed two-year career curriculum. Developmental courses cannot be used to meet this requirement.
2. One-half of the required semester hours must be completed under the aegis of North Iowa Area Community College (including 15 of the last 30 semester hours), unless specified otherwise by a program's accrediting agency.
3. A minimum overall cumulative grade point average of 2.00 (C) including a 2.00 (C) cumulative grade point average in all course work at NIACC. Developmental courses are not used in calculating the cumulative grade point average for graduation.
4. Completion of a general education core of at least 12 semester hours.
5. Completion of the Academic Profile examination during the student's final semester prior to graduation.

Associate in General Studies

Purposes of the degree include:

1. Provide a degree goal for students who choose to follow an individualized course of study which is not specifically designed for transfer to a baccalaureate degree program.
2. Provide an attainable associate degree for students who complete career programs of less than two years duration.
3. Provide an associate degree for career education students who wish to enroll in selected courses to reach a personal career objective.
4. Provide a degree goal for students whose educational goals shift after initial commitment has been made.
5. Provide a flexible associate degree for students who attend college on a part-time or other nontraditional basis.

Requirements for the degree include:

1. Completion of at least sixty (60) semester hours of work designed to meet the personal or career goals of each individual student. Developmental courses cannot be used to meet this requirement.
2. One-half of the required semester hours must be completed under the aegis of North Iowa Area Community College including 15 of the last 30 semester hours.
3. A minimum overall cumulative grade point average of 2.00 (C) including a 2.00 (C) cumulative grade point average in all course work at NIACC. Developmental courses are not used in calculating the cumulative grade point average for graduation.

General Studies Diploma

The purpose of the diploma is to provide an achievement recognition:

1. For students who may choose to follow an individualized course of study which is not specifically designed for transfer to a degree program.
2. For career education students who wish to enroll in selected courses to reach a personal career objective.
3. For students who attend college on a part-time or other nontraditional basis.

Requirements for the diploma include:

1. Completion of at least thirty (30) semester hours of career courses designed to meet the personal or career goals of each individual student.
2. One-half of the required semester hours must be completed under the aegis of North Iowa Area Community College including 15 of the last 30 semester hours.

3. A minimum overall cumulative grade point average of 2.00 (C) including a 2.00 (C) cumulative grade point average in all course work at NIACC.

Diploma

Purposes of the diploma include:

1. Provide a diploma goal for students who choose to follow a course of study which is specifically designed to lead to employment.
2. Provide the student with an entry skill level appropriate to the career for which he/she has been preparing.

Requirements for the diploma include:

1. Completion of at least thirty (30) semester hours of credit including a minimum of 3 semester hours of general education credit.
2. A minimum overall cumulative grade point average of 2.00 (C) including a 2.00 (C) cumulative grade point average in all course work at NIACC. Developmental courses are not used in calculating the cumulative grade point average for graduation.

Certificates

Certificates of completion are awarded to indicate that a student has satisfactorily completed a program of instruction other than those indicated previously. Certificates are usually issued to students upon completion of a short-term program of study with a 2.00 (C) grade point average.

FACILITIES/SERVICES

The main campus in Mason City consists of contemporary, attractive facilities located around lakes in a park-like setting. The 500-acre campus provides facilities for instructional, administrative, recreational, and community activities. Up-to-date laboratories offer the latest in technological equipment. Adequate parking is available without charge for students and staff members. Residence halls and apartments are situated on a site adjoining the campus to the north.

Agriculture Technology Lab

The NIACC farm lab consists of a cow/calf operation, farrow/breeding facility, pole barn, swine confinement, pasture, and no-till demonstration fields.

Athletic/Recreational Fields

Baseball, softball, football, soccer, and recreational fields are located on the east edge of the campus.

Conference Center

The Muse-Norris Conference Center, located east of the Auditorium and Fine Arts area, serves NIACC and community groups for education-related meetings and activities. A multipurpose recreational area is found on the lower level.

Entrepreneurial Training and Support

The John Pappajohn Business and Entrepreneurial Center provides entrepreneurial training and business support to aspiring entrepreneurs, small business owners, and individuals working in high growth industries. The comprehensive programs are designed to increase successful new business starts, reduce the high failure rate of young ventures, and strengthen business growth opportunities.

For more information, call (641) 422-4111.

Laboratories

The attractive facilities available in the Natural Science and Mathematics Divisions are considered unusually complete for a community college. The math lab and the physical and biological science laboratory areas provide for effective learning opportunities.

The laboratories in the Business Division, Buettner Careers Building, and Murphy Manufacturing Technology Center contain the latest equipment and facilities for proper instruction in the career and technical areas.

Computer labs are available throughout campus (including the residence halls) and are available to all students to use for instructional application, Writer's Workbench analysis, checking e-mail, or web browsing. Lab attendants are on staff to assist students. Students have access to this equipment days and evenings, Monday through Saturday.

Library

Conveniently located in the Clifford H. Beem Center, the NIACC Library serves the College as a vital part of the learning experience. Built in 1977, it is an attractive facility providing seating for 150 people. Conference rooms provide areas for group study. Collections include books, reference materials, and nonbook media in the forms of audiotapes, videotapes, films, filmstrips, slides, and electronic resources. The Library subscribes to state and national newspapers as well as area papers; periodical subscriptions cover a broad spectrum of subjects to meet user needs. Materials are coordinated with the curriculum, supporting the career and technical and the academic. In addition, a collection of contemporary fiction is maintained. The Library's online catalog makes it easy to locate resources. For more information on the Library and its services, see page 185.

North Iowa Community Auditorium

A variety of opportunities are available to NIACC students through the North Iowa Community Auditorium, a modern 1167-seat facility located on the NIACC campus. Students perform regularly on stage through the NIACC vocal and instrumental music departments, as well as the theatre department. In addition to student and community shows, performances by nationally and internationally known artists are available to NIACC students, often at reduced prices.

Before the show or between classes, students may browse through the Auditorium Gallery where they will see various exhibits created by famous artists and NIACC art faculty and students.

OK House

The Oikoumene Religious Center (OK House) is an ecumenical religious organization serving postsecondary students in North Central

Iowa. The OK House, located just across from the residence hall, is open daily for students to drop in for social events, listening and referral services, recreation, counseling, study, support groups, contemporary worship experiences, and a serene environment. The OK House is supported by area churches.

On-Campus Housing

The residence hall accommodates up to 450 single men and women on a site adjoining the campus to the north. The residence hall features a commons area, complete with dining, recreational, computer, and study facilities. NIACC student housing also includes lakeside apartments.

Small Business Assistance

The Small Business Development Center offers assistance to small business owners or would-be entrepreneurs in all areas of business management, including sources of capital, loan applications, marketing strategies, and financial planning and analysis. Assistance includes counseling, training, and information. Services are either free or low cost.

The SBDC is affiliated with Iowa State University and the U.S. Small Business Administration under Agreement No. 5-7770-0016-14.

For more information, call (641) 422-4342.

Student Activity Center

Located in the heart of campus, the Student Activity Center offers a classy, comfortable atmosphere for studying, dining, lounging, and visiting with classmates and instructors. Meals and snacks may be obtained in the Food Court between 7 a.m. - 2 p.m., Monday through Friday. Vending machines are also available.

Student Learning Center

The Student Learning Center, located in Beem Center, offers opportunities to all college students and potential students who wish to:

1. Improve their skills in reading, writing, math, and study techniques (for example, note-taking, test-taking, time management) either as a brush-up before enrollment or while participating in a NIACC course or testing program.
2. Gain new skills by participating in an individualized course such as high school credit.
3. Validate their skills by participating in a testing program such as GED, ICBE, CLEP.

For further information, students should contact their counselor, the Learning Center staff, or refer to the Instructional Resources section of this catalog.

Tobacco-Free Campus

Because the College wishes to provide a safe and healthy environment for students and staff members, the use of tobacco products is prohibited in College facilities.

CONTINUING EDUCATION

Office Hours

Continuing Education office hours are Monday through Thursday, 7:00 a.m. - 9:00 p.m. and Friday, 7:00 a.m. - 4:15 p.m.

Community Education

North Iowa Area Community College partners with local communities and their school districts and has five outreach centers to remove the barriers of distance in providing lifelong learning opportunities to the people of the area. Most community education centers have an advisory board and an operations board comprised of community members who provide insight for local education programs and facility planning.

Computer Skills

Computer proficiency is a vital part of competitiveness in today's business world. NIACC can provide the highest quality and most cost-effective computer training in North Iowa. Classes are taught on campus or at the work site.

Business Management

NIACC can help employees learn how to communicate better, deal with workplace stress, delegate effectively, understand motivational concepts, manage their time, and build their leadership skills for maximum organizational effectiveness.

Lean Enterprise

A Lean Enterprise uses a systematic approach to eliminating waste and producing what your customers want when they want it. It does not matter if your business is a service or a manufacturer, NIACC can implement Lean principles into your workplace. Curriculum is available that specializes in manufacturing, office and health care environments.

Manufacturing Skills & Processes

NIACC can help industries educate new employees or advance the skills of current employees about new processes, procedures and technologies. Standardized offerings include courses through the American Production and Inventory Control Society (APICS), the National Association of Purchasing Management (NAPM), and the American Society of Quality (ASQ).

Health & Wellness

The Regional Health Education Center, a unique partnership between NIACC and Mercy Medical Center - North Iowa, provides a wide range of health-related offerings including safety and healthy lifestyle training, laboratory testing, health screenings, fitness assessments, and consultations.

State Funding Programs

The Iowa Jobs Training program (260F) invests in customized training for existing employees. The program is designed to provide funding to train or retrain a company's workforce. The Iowa New Jobs Training Program (260E) assists businesses that are creating new positions. The program is designed to lower the cost of adding and training the newly created positions. Companies must qualify under the parameters of the programs to receive assistance.

Satellites, ICN & Facilities

With Continuing Education's satellite downlink capabilities, a company can benefit from programs across the country. The statewide fiber optics capabilities (ICN) also allow employees to attend seminars and workshops and take courses without leaving town.

North Iowa Business & Industry Group (BIG)

The NIACC Continuing Education Division has joined forces with the Business and Industry Group (BIG) to provide training to businesses and industries in North Iowa. The collaborative efforts of both organizations working together will provide quality educational offerings and networking opportunities to common constituents. For more information, call (641) 422-4358.

NORTH IOWA AREA COMMUNITY COLLEGE FOUNDATION

The North Iowa Area Community College Foundation was incorporated in 1968 as the official fund-raising arm of the College. It is recognized by the Internal Revenue Service as a 501(c)(3) not-for-profit, tax-exempt corporation operating for the express benefit of the College. It is governed by a 21-member Board of Directors who serve in a noncompensated capacity.

The Foundation supports the mission of the College by serving as a financial resource in a variety of areas, including program development, equipment acquisition, building construction, cultural opportunities, and student scholarships. Private gifts through the Foundation have played an important role in the College's history, and there are many ways that individuals, businesses, and organizations may support the College.

The Foundation is authorized to solicit and receive gifts of cash, property, equipment, and/or bequests and to purchase or lease property for the benefit of the College.

Foundation books and records are audited annually.

NONDISCRIMINATION POLICY

North Iowa Area Community College is committed to the policy that all persons shall have access to its programs, facilities, and employment without discrimination based upon race, religion, color, creed, gender, national origin, marital status, age, physical or mental disability. Any person having concerns with respect to rights under Section 504 of the Rehabilitation Act of 1973, and Title IX of the Education Amendments of 1972, should call the Vice President for Student Services (students) at (641) 422-4003 or the Director of Human Resources (employees) at (641) 422-4211.

OFFICE HOURS

The administrative offices of the North Iowa Area Community College are open Monday through Friday from 7:45 a.m. - 4:15 p.m.



Admissions

APPLYING TO THE COLLEGE

INTERNATIONAL STUDENTS

NEW STUDENT REGISTRATION

ORIENTATION

Admissions

Students begin the admissions process by contacting the Admissions Office located on the first floor of the Activity Center. Office hours are 8:00 a.m. to 4:30 p.m. Monday through Friday and by appointment. Special visitation days are held periodically throughout the year.

Special Visitation Days

- **Frame Your Future**
Held the first Friday of most months. Students will learn about NIACC programs, visit with instructors in the department they are interested in, tour the campus and housing facilities and have an opportunity to meet and visit with current students. Registration required, please call the Admissions Office or register on-line at www.niacc.edu/admission/campusvisit.html.

November 3, 2006

December 1, 2006

February 2, 2007

March 2, 2007

April 6, 2007

- **Saturday Visits**
The Admissions Office will be open for individual appointments on the following Saturdays. Please call to make an appointment.

November 11, 2006

January 20, 2007

February 17, 2007

March 24, 2007

April 21, 2007

For more information, call 641-422-4245 or 1-888-GO NIACC, Extension 4245, or visit our web site at www.niacc.edu/admission/campusvisit.html.

Applying to the College

North Iowa Area Community College is an "open door" public two-year college. Generally, students will not encounter any problems in being admitted, but they must complete certain admissions steps. (Please note that admission to the College does not ensure admission to all programs offered.)

All application materials are to be submitted to the Admissions Office, North Iowa Area Community College, 500 College Drive, Mason City, Iowa 50401. You may also complete an on-line application (www.niacc.edu).

1. Carefully complete the NIACC Application for Admission. Note that a social security number is required on the application. Once accepted, you will receive a student identification number.
2. Submit a high school transcript or GED scores with the application. (Upon graduation a student should submit a final transcript.) [If a student does not have a high school diploma or equivalent, contact the College to find out how we can help him/her earn one. A student will be allowed to take courses for one semester while obtaining the GED. The student will not be eligible for financial aid during the semester he/she is completing the GED.]

3. An assessment of skills and abilities is required as part of the registration process. Students may either submit their American College Test (ACT) scores or complete the COMPASS assessment at NIACC. COMPASS assessment is provided in Hampton, Charles City, Lake Mills, Osage, and Garner on a regular basis. Call the Admissions Office to schedule the COMPASS assessment.

See pages 192-193 for the Course Placement Information Chart.

4. If students have earned credits at another college, they must have their official transcript(s) forwarded to NIACC.

Note: Students applying for the Associate Degree Nursing; Practical Nursing; LPN to ADN; Physical Therapist Assistant; Information Systems Technology; or E-Commerce, Web Design and Development Programs need to review the catalog for specific program requirements.

High school students may enroll in both high school and college classes provided their high school has knowledge of this concurrent enrollment. Whether these courses receive high school credit is entirely at the discretion of the high school administration. Post-secondary Enrollment Options (PSEO) classes are another option for top high school juniors and seniors (ask your high school counselor for more information.)

International Students

International students who desire admission are sent an on-campus international student admission packet. A TOEFL score of 500 is required as evidence of command of the English language to profit from the curriculum. Also, evidence of adequate financial resources is required of all international students. All required documents must be returned with the \$ 50 application fee before issuance of Forms I-20A and B (Immigration Certificate of Acceptance). Contact the Admissions Office for an international student admissions packet.

International students who will be enrolled in on-line classes only at North Iowa Area Community College **will not** be required to complete the international student admissions packet, submit their TOEFL score or pay the \$ 50 application fee. Any international student who will be taking a combination of on-line and on-campus classes will need to follow the application process for on-campus international students.

New Student Registration

Registration information will be mailed in May to students who have indicated a Fall start term on their application for admission; and students indicating a Spring (January) start will receive the information in December. This information is sent out in the order that applications for admissions are received. Selecting a date for your registration can be made on-line, by phone or mail. Summer students need to check our web site: www.niacc.edu/summer for registration information and instructions. On your scheduled registration day, you will learn about programs and services available, schedule classes, and arrange payment options. All items listed under Applying to the College must be on file by our registration day or it will delay the registration process.

**Orientation**

All new and transfer students who are entering NIACC for the first time and who intend to take day classes are required to attend a new student orientation. During orientation students learn about NIACC policies and procedures, academic requirements, faculty expectations, and are given information about financing their education, student housing, and student activities. Students will also learn how to adapt to their new college environment.

Cafe Bean



Instructional Resources

LEARNING SUPPORT DIVISION

EXPERIENTIAL LEARNING

STUDENT LEARNING CENTER

LIBRARY

TECHNOLOGY SERVICES

Instructional Resources

LEARNING SUPPORT DIVISION

The mission of the Learning Support Division is to provide support and access to educational opportunities for students, and to maintain a wide variety of resources to meet the information and educational needs of the NIACC community.

This includes assessment and developmentally appropriate classroom and tutorial instruction, and assistance in utilization of library resources.

Assessment/Testing

- American College Testing Program (ACT)
- College Level Examination Program (CLEP)
- Test Proctoring: External/Internal
- Police Dispatcher Recertification
- General Educational Development (GED)
- GED Testing Site: NIACC Campus—Beem Center Room 103; five tests available in writing and reading skills, social studies, sciences, and mathematics.
- Scholarship: For eligible GED candidates enrolling at NIACC each fall semester.

Requirements of GED testing procedures/policies clarified by the chief GED examiner.

Basic Skills

Open entrance/open exit classes for adults with or without a high school diploma.

- Adult Basic Education (ABE)
- General Educational Development (GED): Adults study basic reading, writing, and mathematics. Adults may also prepare for the GED tests which lead to the attainment of a high school equivalency diploma. GED requirements are clarified by the chief GED examiner.

Literacy/Adult Basic Education

- Reading instruction for adult nonreaders.
- ABE/Special Learning Needs: Persons functioning below ninth grade level.

English Language

- Learning English as a Second Language (ESL): Instruction is provided for non-native speakers in speaking, reading, and writing the English language.

EXPERIENTIAL LEARNING

Individualized Competency-Based Education Program (ICBE)

The Individualized Competency-Based Education (ICBE) Program is an individually tailored, student-designed program leading to an Associate Degree. The ICBE program is designed for adults who (1) have acquired college-level learning outside the college setting; (2) desire assessment of this learning for credit equivalence; and (3) may desire a flexible time schedule for completion of their educational goals.

The program is designed to meet the specialized educational needs of adults who have either (1) a clear direction or desire for designing their own educational program, or (2) want opportunities for life or career development or change, or (3) prefer or need the nontraditional options for their area of study.

The ICBE degree program is an alternative mode of education for adults who have had learning experiences from employment, volunteer work, noncollege education, in-service training, or other life experiences.



LIBRARY

The role of the NIACC Library is to support the curriculum and to provide resources and services to meet the needs of students, faculty, and area residents.

The collection contains a wide variety of books, media, and electronic books. Subscriptions include national newspapers, North Iowa area newspapers, and periodicals with ten-year holdings of most titles. Also available are files containing up-to-date pamphlets, career information, and social concerns materials.

The library is open 59 hours per week, including 4 evenings. A professional staff of one full-time librarian assisted by three full-time and several student assistants provide service for all patrons. Library orientation sessions are offered at the beginning of each semester to inform students of library resources, policies, and procedures. An online version of the orientation is also available from the library web page. A library handbook in print and online is available. A student ID card is required to check out materials. ID cards are available in Student Services.

Word-processing computers, a typewriter, and various types of media equipment are available for use in the library. Copying services are provided at a minimal cost.

The library is connected online to over 45,000 libraries across the country via the OCLC interlibrary loan system. This brings the libraries of the United States to NIACC students. A number of electronic databases, including full-text periodical databases, newspapers, electronic books, and encyclopedias on the World Wide Web, can be accessed through the library's web page. A list of passwords is available for off-campus access. CD-ROM databases are also available. Cooperative agreements with other Iowa community colleges and area libraries provide additional sources of information.

The library continues to implement the utilization of new technologies to meet the information needs of NIACC students. The library uses an online library catalog and circulation system to provide easy access to resources. Internet workstations are available for using the World Wide Web. CD-ROM workstations are also available.

The library's Café Bean provides a casual atmosphere where students can meet and relax with coffee and hot chocolate. A wireless hub is available for students wishing to use their laptops.

STUDENT LEARNING CENTER

The Student Learning Center, located in Beem Center, offers opportunities to all college students who wish to:

1. Learn or improve existing study skills including but not limited to test-taking skills, note-taking, and time management.
2. Improve personal and academic skills in writing, math, and/or reading.
3. Schedule individual appointments for one-on-one tutoring in a variety of subjects offered by the college.
4. Drop in for tutoring in NIACC class work, or to study individually or in small groups.
5. Study in a comfortable, helping environment.

TECHNOLOGY SERVICES

The Technology Services Division provides technology-related support to the campus in the areas of computer services, media services, and telecommunications. Technology Services staff members set up and maintain the computers in the computer labs, data networks, Internet, and computer applications. In addition, staff members support classroom presentation equipment such as overhead projectors, video projectors, large screen computer displays, and interactive television classrooms (ICN). Other production services include overhead transparencies, electronic publishing, video production, photography, satellite down-linking services, and Internet Web page development.

E-Mail/Internet

NIACC provides e-mail accounts and on-campus Internet access to all students enrolled in credit classes. (See the Technology Policy in the Student Handbook.)

The Iowa Communications Network (ICN)

NIACC is proud to be a part of the ICN, a statewide two-way interactive video/audio/data network with over 800 electronic classrooms, connecting every county in the state. NIACC has four interactive television classrooms on campus in Mason City and one at the NIACC Charles City Center. In addition, there are ICN classrooms at nearly all area high schools. Students can participate in a variety of college classes at the remote sites, communicating with the instructor and other students via two-way video and audio. The ICN also provides Internet and data services to the college.

Online Instruction and Support

NIACC offers many courses that can be taken online via the Internet, which can lead to an Associate in Arts Degree or an Associate in Science (Business) Degree. Online courses provide the flexibility to work on course assignments evenings and weekends to accommodate job and family schedules. While most courses start and end on the traditional semester schedule, some online courses are "open entry" allowing a student to start a few days after they register and complete the course within 15 weeks. A student needs to have access to a computer and an Internet connection, or can use the computers in the NIACC computer labs. New courses are in development every year. For current information, visit the online course web page at <http://www.niacc.edu/online/>.



Career Programs

AGRICULTURAL TECHNOLOGY

BUSINESS

HEALTH

REGIONAL HEALTH

PUBLIC SERVICE

INDUSTRIAL TECHNOLOGY

FAMILY AND HUMAN SERVICES

General Education Course Categories for Associate in Applied Science and Diploma Programs

To earn an Associate in Applied Science degree, a student must complete a minimum of 12 semester hours (s.h.) of credit in the general education course categories listed on pages 127-128 and/or the courses listed below. Requirements vary according to the major selected. Please consult with an advisor or a faculty member in the major field for further information.

Listed as follows are additional general education courses for Associate in Applied Science degrees and diplomas.

COMMUNICATION

BUS-121	Business Communications.....	3 s.h.
ENG-701	Communications I.....	3 s.h.
ENG-702	Communications II.....	3 s.h.

SOCIAL SCIENCE/HUMANITIES

BUS-161	Human Relations.....	3 s.h.
AGB-101	Agricultural Economics.....	3 s.h.
AGB-861	Employment Relations & Business Decisions.....	2 s.h.

MATH/SCIENCE

AGS-109	Animal Science I.....	3 s.h.
AGS-110	Animal Science I Lab.....	1 s.h.
MAT-710	Business and Financial Math.....	2 s.h.
MAT-770	Applied Math.....	2 s.h.
MAT-771	Applied Math II.....	2 s.h.
PHY-720	Career Physics.....	4 s.h.

TECHNOLOGY

AGC-103	Agricultural Computer.....	3 s.h.
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To earn a diploma, a student must complete a minimum of 3 semester hours (s.h.) of credit in the categories listed above. Requirements vary according to the major selected. Please consult with an advisor or a faculty member in the major field for further information.



Agricultural Operations Management

**Agricultural Sales
and Service**

**Agriculture
Program Clusters**

**Agricultural Marketing
and Finance**

Agricultural E-Agribusiness

Agriculture Transfer

Agriculture Technology Diploma

Agricultural Technology Division

Larry Eichmeier, Division Chair, 641-422-4225, eichmlar@niacc.edu
 Kevin Muhlenbruch, 641-422-4291, muhlekev@niacc.edu
 Chris Chodur, 641-423-7888, choduchr@niacc.edu

The Agriculture Technology Diploma program is designed to provide students with the skills, aptitudes, and knowledge necessary to enter fields related to general agriculture. The program may be completed in two semesters by following the suggested curriculum, or it may be spread over three or more semesters. Upon satisfactory completion of the prescribed curriculum with an average grade point of 2.00 (C), the student is awarded the diploma. This recognition is granted to a person who has completed 33 semester hours of credit at NIACC.

The curriculum is presented in a format that includes classroom work, laboratory instruction and practice. Situational projects in the area of livestock, crop, and business enterprise management are included in the program. The program offers students desiring more advanced education the option of applying completed course work toward an Associate of Applied Science Degree.

Career Opportunities

- Self-employed Farm or Business Management
- General Livestock or Crop Production
- Custom Livestock Feeding or Crop Production
- Animal Herdsman or Crop Technician
- Niche Market Production
- Agriculture-Related Sales

Required Courses/Suggested Schedule

(For students planning to complete the program in one academic year.)

First Year

First Term

AGA-154	Fundamentals of Soil Science	3 s.h.
AGS-109	Animal Science I	3 s.h.
AGS-110	Animal Science I Lab	1 s.h.
ENG-102	Composition & Speech I	4 s.h.
	Recommended Electives	6 s.h.
		17 s.h.

Second Term

AGA-114	Principles of Agronomy	3 s.h.
ACC-111	Introduction to Accounting.....	3 s.h.
AGS-209	Animal Science II	3 s.h.
AGS-210	Animal Science II Lab	1 s.h.
	Recommended Electives	6 s.h.
		16 s.h.

Total Program Hours 33 s.h.

Recommended Elective Courses--Must complete 12 s.h. from the following:

AGA-854	Crop Production Lab	1 s.h.
AGA-855	Site Specific Crop Management	2 s.h.
AGA-860	Soils and Crop Management	2 s.h.
AGB-101	Agricultural Economics.....	3 s.h.
AGB-205	Introduction to Farm Operation	2 s.h.
AGB-213	Ag Real Estate Evaluation	2 s.h.
AGB-338	Salesmanship & Advertising	2 s.h.
AGB-436	Grain Merchandising	2 s.h.
AGB-438	Ag Futures & Future Options	2 s.h.
AGB-465	Ag Finance Management.....	2 s.h.
AGB-861	Employment Relations & Business Decisions	2 s.h.
AGM-120	Basic Agricultural Mechanics	2 s.h.
AGP-331	Precision Ag Technologies	2 s.h.
AGS-227	Beef Cattle Production	2 s.h.
AGS-240	Animal Health.....	2 s.h.
AGS-309	Livestock Production Lab I.....	1-2 s.h.
AGS-310	Livestock Production Lab II.....	1-2 s.h.
AGS-317	Animal Nutrition.....	2 s.h.
AGS-506	Swine Production	2 s.h.
AGS-526	Swine A.I. Center Management	2 s.h.
AGS-811	Animal Technologies	1 s.h.
BCA-215	Computer Business Applications	3 s.h.
MAT-770	Applied Math	2 s.h.
MAT-771	Applied Math II	2 s.h.
SDV-210	Cooperative Education Internship	3 s.h.
WEL-332	Welding	2 s.h.

Agricultural Sales & Service

Agricultural Technology Division

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 Chris Chodur, 641-423-7888, choduchr@niacc.edu

The Sales and Service curriculum is designed to prepare students to work in the agricultural supply and service industry. It provides a sound academic foundation with emphasis on sales/merchandising, economics, business management, information management, precision agriculture, agronomy, animal science, human relations, and general education. Two eight-week internship experiences are required. Upon successful completion, graduates will receive an Associate in Applied Science Degree.

NIACC's Ag Advantage: *Champions of Agriculture--Providing high quality, vigorous education opportunities to students.*

- * Innovative Curriculum
- * Industry Partnerships
- * Rewarding Internships
- * Hands-On Labs
- * Highly Regarded by Transfer Institutions
- * Technology Emphasis
- * Award-Winning Faculty
- * Electronic Classrooms
- * Satisfied Graduates

Transfer Opportunities: All classes required in our curriculum can be transferred to Iowa State University and/or Northwest Missouri State. Graduates can transfer to ISU as a junior and work toward a bachelor's degree in the College of Agriculture. Staff can advise you as to the best academic path for transfer.



NIACC Farm Lab: The NIACC Farm Lab consists of 260 no-till acres, 110 acres of pasture, livestock facilities for the swine and beef breeding herds, and provides Ag students with "hands-on" learning experiences in the areas of crop protection and management, precision farming technology, crop and livestock management, show pig and club calf production.

Career Opportunities

Internships: Students in Sales & Service complete two paid, eight-week internships. During your internships you will apply your academic skills in an actual work environment. The industry contacts made often lead to full-time employment following graduation.

Employment Opportunities: Jobs for Agriculture Sales & Service graduates include salespersons, counter sales, GPS/GIS service, production assistants, department managers, marketing, insurance, conservation and agency services, and business assistants and managers.

Earning Potential: Entry-level salaries for recent NIACC agriculture technology graduates ranged between \$ 18,000 and \$ 28,000 annually.

Required Courses/Suggested Schedule

First Year

First Term

AGA-154	Fundamentals of Soil Science	3 s.h.
AGS-109	Animal Science I	3 s.h.
AGS-110	Animal Science I Lab	1 s.h.
BCA-215	Computer Business Applications	3 s.h.
ENG-102	Composition & Speech I	4 s.h.
MAT-770	Applied Math	2 s.h.
MAT-771	Applied Math II	2 s.h.
		18 s.h.

Second Term

AGA-114	Principles of Agronomy	3 s.h.
AGB-101	Agricultural Economics.....	3 s.h.
ACC-111	Introduction to Accounting.....	3 s.h.
AGS-209	Animal Science II	3 s.h.
AGS-210	Animal Science II Lab	1 s.h.
	General Education Core	3 s.h.
		16 s.h.

Third Term

AGA-852	Principles of Crop Production	3 s.h.
AGP-331	Precision Agriculture Technologies	2 s.h.
AGS-811	Animal Technologies	1 s.h.
		6 s.h.

Second Year

Fourth Term

AGB-465	Grain Merchandising	2 s.h.
SDV-135	Job Seeking Skills	1 s.h.
SDV-210	Cooperative Education Internship.....	4 s.h.
	Approved Ag Elective(s).....	8 s.h.
		15 s.h.

Fifth Term

AGB-338	Salesmanship & Advertising	2 s.h.
AGB-465	Ag Finance Management.....	2 s.h.
AGB-861	Employment Relations & Business Decisions	2 s.h.
SDV-210	Cooperative Education Internship.....	4 s.h.
	Approved Ag Elective(s).....	4 s.h.
		14 s.h.

Total Program Hours **69 s.h.**

Recommended Agriculture Electives

AGA-854	Crop Production Lab	1 s.h.
AGA-855	Site Specific Crop Management	2 s.h.
AGA-860	Soils and Crop Management	2 s.h.
AGB-213	Ag Real Estate Evaluation	2 s.h.
AGS-317	Animal Nutrition	2 s.h.
AGB-338	Salesmanship & Advertising	2 s.h.
AGB-438	Ag Futures & Future Options	2 s.h.
AGS-227	Beef Cattle Production	2 s.h.
AGS-240	Animal Health.....	2 s.h.
AGS-309	Livestock Production Lab I.....	1-2 s.h.
AGS-310	Livestock Production Lab II.....	1-2 s.h.
AGS-506	Swine Production	2 s.h.
AGS-526	Swine A.I. Center Management	2 s.h.
WEL-332	Welding	2 s.h.

Agricultural Marketing and Finance

Agricultural Technology Division

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 Kevin Muhlenbruch, 641-422-4291, muhlekev@niacc.edu
 Chris Chodur, 641-423-7888, choduchr@niacc.edu

The Marketing and Finance curriculum is designed to prepare students to work in the agricultural service industry. It provides a sound academic foundation with emphasis on business management, economics, information management, sales and marketing, precision agriculture, farm production, human relations, communication, and general education. An eight-week internship experience is required. Upon successful completion, graduates will receive an Associate in Applied Science Degree.

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- * Innovative Curriculum
- * Industry Partnerships
- * Rewarding Internships
- * Hands-On Labs
- * Highly Regarded by Transfer Institutions
- * Technology Emphasis
- * Award-Winning Faculty
- * Electronic Classrooms
- * Satisfied Graduates

Transfer Opportunities: All classes required in our curriculum can be transferred to Iowa State University and/or Northwest Missouri State. Graduates can transfer to ISU as a junior and work toward a bachelor's degree in the College of Agriculture. Staff can advise you as to the best academic path for transfer.

NIACC Farm Lab: The NIACC Farm Lab consists of 260 no-till acres, 110 acres of pasture, livestock facilities for the swine and beef breeding herds, and provides Ag students with "hands-on" learning experiences in the areas of crop protection and management, precision farming technology, crop and livestock management, show pig and club calf production, and business planning and decision making.

Career Opportunities

Internships: Students in Marketing and Finance complete one paid, eight-week internship. During your internship you will apply your academic skills in an actual work environment. The industry contacts made often lead to full-time employment following graduation.

Employment Opportunities: Jobs for Agricultural Marketing & Finance graduates include salespersons, accountants, GPS/GIS service, commodity marketing, department managers, production marketing, insurance, conservation, and government agency services, and business assistants and managers.

Earning Potential: Entry-level salaries for recent NIACC agriculture technology graduates ranged between \$ 18,000 and \$ 28,000 annually.

Required Courses/Suggested Schedule

First Year

First Term

AGA-154	Fundamentals of Soil Science	3 s.h.
AGS-109	Animal Science I	3 s.h.
AGS-110	Animal Science I Lab	1 s.h.
BCA-215	Computer Business Applications	3 s.h.
ENG-102	Composition & Speech I	4 s.h.
	Math Elective	3-4 s.h.
		17-18 s.h.

Second Term

ACC-121	Principles of Accounting I	3 s.h.
AGA-114	Crop Science I	3 s.h.
AGS-209	Animal Science II	3 s.h.
AGS-210	Animal Science II Lab	1 s.h.
ECN-120	Principles of Macroeconomics	3 s.h.
ENG-103	Composition & Speech II	4 s.h.
		17 s.h.

Third Term

AGA-852	Principles of Crop Production	3 s.h.
AGP-331	Precision Agriculture Technologies	2 s.h.
AGS-811	Animal Technologies	1 s.h.
		6 s.h.

Second Year

Fourth Term

ACC-122	Principles of Accounting II	3 s.h.
AGB-436	Grain Merchandising	2 s.h.
BUS-185	Business Law I	3 s.h.
ECN-130	Principles of Microeconomics	3 s.h.
SDV-135	Job Seeking Skills	1 s.h.
	Approved Ag Elective(s)	4 s.h.
		16 s.h.

Fifth Term

AGB-438	Ag Futures & Future Options	2 s.h.
AGB-465	Ag Finance Management	2 s.h.
AGB-861	Employment Relations & Business Decisions	2 s.h.
SDV-210	Cooperative Education Internship	4 s.h.
	Approved Ag Elective(s)	4 s.h.
		14 s.h.

Total Program Hours

70-71 s.h.

Recommended Agriculture Electives

AGA-854	Crop Production Lab	1 s.h.
AGA-855	Site Specific Crop Management	2 s.h.
AGA-860	Soils and Crop Management	2 s.h.
AGB-213	Ag Real Estate Evaluation	2 s.h.
AGB-338	Salesmanship & Advertising	2 s.h.
AGS-227	Beef Cattle Production	2 s.h.
AGS-240	Animal Health	2 s.h.
AGS-309	Livestock Production Lab I	1-2 s.h.
AGS-310	Livestock Production Lab II	1-2 s.h.
AGS-317	Animal Nutrition	2 s.h.
AGS-506	Swine Production	2 s.h.
AGS-526	Swine A.I. Center Management	2 s.h.
WEL-332	Welding	2 s.h.

E-Agribusiness

Agricultural Technology Division

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The E-Agribusiness curriculum is designed to prepare students to utilize e-commerce technology to conduct business. It provides a sound academic foundation with emphasis on agriculture, business management, information technology, computer applications, internet function communications, and entrepreneurship. One eight-week internship experience is required. Upon successful completion, graduates will receive an Associate in Applied Science Degree.

NIACC's Ag Advantage: *Champions of Agriculture--Providing high quality, vigorous educational opportunities to students.*

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- * Industry Partnerships
- * Rewarding Internships
- * Hands-On Labs
- * Highly Regarded by Transfer Institutions
- * Technology Emphasis
- * Award-Winning Faculty
- * Electronic Classrooms
- * Satisfied Graduates

NIACC Farm Lab: The NIACC Farm Lab consists of 260 no-till acres, 110 acres of pasture, livestock facilities for the swine and beef breeding herds, and provides Ag students with "hands-on" learning experiences in the areas of crop protection and management, precision farming technology, crop and livestock management, show pig and club calf production, and business planning and decision making.

Career Opportunities

Internships: Students in E-Agribusiness complete one paid, eight-week internship. During your internship you will apply your academic skills in an actual work environment. The industry contacts made often lead to full-time employment following graduation.

Employment Opportunities: Jobs for E-Agribusiness graduates include sales and marketing, accounting, GPS/GIS service, and business opportunities utilizing web applications and development, web graphic design, e-commerce, computer networking, and computer systems support.

Earning Potential: Entry-level salaries for recent NIACC agriculture technology graduates ranged between \$ 18,000 and \$ 28,000 annually.

Required Courses/Suggested Schedule

First Year

First Term

BCA-101	Introduction to Computers and Information Systems...	3 s.h.
BUS-102	Introduction to Business.....	3 s.h.
CIS-125	Intro to Programming Logic with Language.....	3 s.h.
CIS-210	Web Development I.....	3 s.h.
ENG-102	Composition & Speech I.....	4 s.h.
		16 s.h.

Second Term

AGA-114	Principles of Agronomy.....	3 s.h.
BUS-151	Intro to E-Commerce.....	3 s.h.
GRA-108	Visual Communications.....	3 s.h.
	Approved General Education Core.....	3 s.h.
	Approved Free Elective(s).....	3 s.h.
		15 s.h.

Third Term

AGA-852	Principles of Crop Production.....	3 s.h.
AGP-331	Precision Agriculture Technologies.....	2 s.h.
AGS-811	Animal Technologies.....	1 s.h.
		6 s.h.

Second Year

Fourth Term

CIS-211	Internet Programming I.....	3 s.h.
NET-213	Networking I.....	4 s.h.
	General Education Core.....	3 s.h.
	Approved Ag Elective(s).....	3 s.h.
	Approved Free Elective(s).....	3 s.h.
		16 s.h.

Fifth Term

BUS-158	Internet Law.....	3 s.h.
SDV-210	Cooperative Education Internship.....	4 s.h.
	Approved Career Elective(s).....	4 s.h.
	Approved Ag Elective(s).....	6 s.h.
		17 s.h.

Total Program Hours **70 s.h.**

Students have considerable flexibility to select courses which will structure the program to meet their personal career goals. A list of corequisites and prerequisites has been prepared to allow students to determine the sequence of courses to complete the program. An approved list of elective courses is available.

Transfer Degree

Business Division

Career Programs

Career Option Programs

Information Technology

- Foundations of Technology
- Business Technology
- Information Systems Technology
- E-Commerce Web Design, and Development
- Graphic Communications
- Senior Network Administration

Accounting/Computing

- Accounting/Associate in Science (Business) Degree
- Accounting with Computers/Diploma

Business Program Clusters

Professional Administrative Services

- Administrative Office Specialist
- Legal Office Specialist
- Medical Office Specialist
- Administrative Office Associate
- Legal Office Associate
- Medical Office Associate
- Medical Transcription Diploma
- Software Applications Specialist

Marketing/Management

- Entrepreneurship and Small Business Management
- The Pappajohn Entrepreneurial Certificate Program
- Financial Management and Insurance
- General Business
- General Business/Banking Option
- General Business/Marketing and Sales Option
- Hospitality/Food Service Management
- Retail Management
- Sport Management
- Supervision and Management

BUSINESS

Gary Christiansen, Division Chair

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ACCOUNTING/COMPUTING (Pages 29-31)

- Accounting with Computers/Diploma
- Accounting-Associate in Science (Business/Accounting) Degree
- Information Systems Technology/Accounting Specialization

INFORMATION TECHNOLOGY (Pages 32-42)

- Business Technology - Associate in Science (Business/Business Technology) Degree
- E-Commerce, Web Design, and Development Web Design Specialization
- Foundations of Technology
- Graphic Communications
- Information Systems Technology
 - CSI - Cyber Security and Integrity Specialization
 - Desktop Systems Specialization (Software)
 - Management Information Systems Specialization
 - Network Administration Specialization
 - PC Technician Specialization (Hardware)
 - Software and Video Game Testing Specialization
- Senior Network Administration

MARKETING/MANAGEMENT (Pages 43-53)

- Entrepreneurship and Small Business Management
- E-Entrepreneurship Specialization
- E-Business Specialization
- Financial Management/Insurance
- General Business
 - Banking Option
 - Marketing and Sales Option - Diploma
- Hospitality/Food Service Management
- Retail Management
- Sport Management
- Supervision and Management
 - Diploma
 - Career Option

PROFESSIONAL ADMINISTRATIVE SERVICES (Pages 54-60)

- Degree Programs
 - Administrative Office Specialist
 - Legal Office Specialist
 - Medical Office Specialist
- Diploma Programs
 - Administrative Office Associate
 - Legal Office Associate
 - Medical Office Associate
 - Medical Transcription
 - Software Applications Specialist Certificate

BUSINESS DIVISION

The Business Division provides courses and programs for students who wish to transfer to a baccalaureate degree granting institution, for students who are undecided and are interested in a career option program, or for students who want a specific career program.

Transfer Student Opportunities

Are you interested in transferring to a four-year college or university and earning a bachelor's degree?

Students earning an Associate in Science (Business) degree may wish to apply their studies toward a bachelor's degree in a business-related field at a four-year college or university. Students need courses that will facilitate their transfer to four-year institutions of their choice. Please consult with a NIACC counselor for assistance in determining a schedule to meet your goal.

Students need to take courses that will facilitate their transfer to the institution of their choice. Courses that would assist students who are business majors would be accounting, computers, statistics, and spreadsheets. Other business courses may also transfer to many institutions (see pages 204-206 for specific degree requirements).

Career Option Student Opportunities

For students interested in the business area but undecided as to what degree to pursue, career option programs provide the flexibility these students need. Upon completion of a career option program, a student may choose to pursue a baccalaureate degree or go directly to a chosen occupational area. Career option programs are available in Accounting/Computing, Marketing/Management, and Professional Administrative Services (see pages 204-206 or specific degree requirements).

Career Student Opportunities

Students who are focused on a particular occupation may choose from a variety of business career programs. These programs follow a curriculum that assists each student in developing the knowledge, skills, and abilities necessary to be successful in his/her chosen field.

The Business Division's highest priority is to assist students in reaching their individual educational goals. Each instructor is dedicated to providing the highest quality instruction to facilitate this process.

Students should note that programs in the Business Division have courses that are common in more than one program. Students are afforded the opportunity to be flexible within the Business Division when looking at the wide variety of programs that are being offered.

Accounting with Computers/Diploma

The Accounting with Computers/Diploma Program is designed to provide students with the skills, attitudes, and knowledge necessary to enter the field of bookkeeping and accounting. The program may be completed in two semesters by following the suggested curriculum, or it may be spread over three or more semesters. Upon satisfactory completion of the prescribed curriculum with an average grade point of 2.00 (C), the student is awarded a diploma. This recognition is granted to a person who has completed at least thirty-one (31) semester hours of credit.

The curriculum is presented in a format that includes classroom work, laboratory instruction and practice, and computerized accounting. Several accounting simulation projects, including manual and computerized, are completed to give the students experience in keeping a complete set of books. Many hours of computer experience in accounting, keyboarding, and word processing prepare students for full-time employment or for more advanced education in the accounting field. The program also offers students desiring more advanced education the option of applying completed course work toward an Associate in Science (Business) Degree or an Associate in General Studies Degree. Program graduates may also continue work toward an Associate in Arts Degree.



Required Courses/Suggested Schedule

(For students planning to complete the program in one academic year)

First Term

ACC-111	Introduction to Accounting.....	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
ADM-123*	Document Formatting	3 s.h.
ADM-131	Office Calculators.....	1 s.h.
BCA-215	Computer Business Applications	3 s.h.
	OR BCA-101 Introduction to Computers and Information Systems (3 s.h.)	
BUS-121	Business Communications.....	3 s.h.
BUS-161	Human Relations	3 s.h.
		16 s.h.

* Prerequisite: Pass keyboarding test at 30 wpm with 3 errors or fewer.

Second Term

ACC-161	Payroll Accounting	3 s.h.
ACC-311	Computer Accounting.....	3 s.h.
BCA-129	Basic Word Processing.....	2 s.h.
BCA-152	Electronic Spreadsheets	3 s.h.
BUS-107	Business Careers.....	1 s.h.
	Business Elective(s).....	3 s.h.
		15 s.h.

Total Program Hours **31 s.h.**

Business Internships

It's as easy as 1, 2, 3!

1. Talk to the Business Internship Coordinator or your Counselor to decide when in your college career you should participate in an internship.
2. Enroll in and pass Business Careers (BUS-107).
 - Business Careers is a 1 s.h., 5-week, pass/no pass course that is a prerequisite to Business Internships ~ it can be taken at any time prior to a Business Internship.
3. Upon passing Business Careers, the student is eligible for a Business Internship (BUS-225).
 - Students may register for a Business Internship only when they have located, secured and have had the internship site approved with the Business Internship Coordinator.
 - Business Internship credit ranges from 1 s.h. to 5 s.h. ~ this must be determined prior to registering for the course.

All students are highly encouraged to participate in a Business Internship before graduating.

Career Opportunities

Employment opportunities may be found in a variety of businesses:

- Agricultural Industries
- Banks and Financial Institutions
- Educational Institutions
- Federal, State, and Local Government Agencies
- Manufacturing Companies
- Wholesale and Retail Firms

Occupational titles include:

- Accounting Clerk
- Accounts Payable Clerk
- Accounts Receivable Clerk
- Bank Teller
- Billing Clerk
- Bookkeeper
- Data Entry
- General Office Clerk
- Payroll Clerk

Business Elective Courses--Must complete 3 s.h. from the following:

ACC-121	Principles of Accounting I.....	3 s.h.
ACC-122	Principles of Accounting II.....	3 s.h.
BCA-101	Introduction to Computers and Information Systems...3 s.h.	
BUS-102	Introduction to Business.....	3 s.h.
BUS-185	Business Law I.....	3 s.h.
BUS-186	Business Law II.....	3 s.h.
BUS-225	Business Internships.....	1-5 s.h.
MGT-130	Principles of Supervision.....	3 s.h.
MGT-170	Human Resource Management.....	3 s.h.
MKT-110	Principles of Marketing.....	3 s.h.

For additional Business electives, see pages 128-129.

Accounting - Associate in Science (Business/Accounting) Degree

NIACC's Associate in Science (Business/Accounting) Degree is a program that offers students flexibility and options from which to choose. The program is designed to offer the student an option of preparing for an exciting career in the accounting bookkeeping job market or of transferring to a four-year institution and receiving a baccalaureate degree. For specific placement information or for transfer requirements, please contact the North Iowa Career Center, the NIACC Business Division, or a NIACC counselor.

Upon completion of the curriculum with an average grade point of 2.00 (C), the student is awarded an Associate in Science (Business/Accounting) Degree. Students who have completed the Accounting with Computers Diploma Program may apply semester hours earned from that program toward an Associate in Science (Business/Accounting) Degree. Students who plan to pursue a four-year degree and need to meet general education requirements of transfer institutions should strive for an Associate in Arts Degree. Several of the first-year requirements are the same for both the A.S.(B.) and the A.A. Degree.



Career Opportunities

Employment opportunities may be found in a wide variety of businesses:

- Agricultural Industries
- Banks and Financial Institutions
- Educational Institutions
- Federal, State, and Local Government Agencies
- Hospitals and Health Care Providers
- Insurance Companies

Occupational titles include:

- Accounting Clerk
- Bookkeeper
- Credit Analyst
- Credit Counselor
- Contract Administrator
- Financial Planner
- Tax Preparer

Required Courses/Suggested Schedule

First Year

First Term

ACC-121	Principles of Accounting I.....	3 s.h.
ADM-105	Introduction to Keyboarding.....	1 s.h.
	OR ADM-108 Keyboarding Skill Development (1 s.h.)	
	OR ADM-123 Document Formatting (3 s.h.)	
ADM-131	Office Calculators.....	1 s.h.
BCA-215	Computer Business Applications.....	3 s.h.
	OR BCA-101 Introduction to Computers and Information Systems (3 s.h.)	
ENG-102	Composition & Speech I.....	4 s.h.
MAT-110	Math for Liberal Arts.....	3 s.h.
	OR appropriate level math course until minimum requirement is met (3 s.h.)	
		15-17 s.h.

Second Term

ACC-122	Principles of Accounting II.....	3 s.h.
BCA-129	Basic Word Processing.....	2 s.h.
BCA-152	Electronic Spreadsheets.....	3 s.h.
ENG-103	Composition & Speech II.....	4 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
	Elective(s).....	1 s.h.
		16 s.h.

Second Year

Third Term

ACC-311	Computer Accounting.....	3 s.h.
BUS-161	Human Relations.....	3 s.h.
BUS-185	Business Law I.....	3 s.h.
ECN-120	Principles of Macroeconomics.....	3 s.h.
	Elective(s).....	3 s.h.
		15 s.h.

Fourth Term

ACC-161	Payroll Accounting.....	3 s.h.
BUS-107	Business Careers.....	1 s.h.
ECN-130	Principles of Microeconomics.....	3 s.h.
	Business Elective(s).....	4 s.h.
	Elective(s).....	3 s.h.
		14 s.h.

Total Program Hours 60-62 s.h.

Business Electives

ACC-111	Introduction to Accounting.....	3 s.h.
ADM-123	Document Formatting.....	3 s.h.
BCA-100	Computer Literacy.....	1 s.h.
BCA-101	Introduction to Computers and Information Systems.....	3 s.h.
BCA-103	Management Information Systems.....	3 s.h.
BCA-163	Microsoft Access.....	1 s.h.
BCA-174	Basic Presentation Software.....	1 s.h.
BUS-102	Introduction to Business.....	3 s.h.
BUS-121	Business Communications.....	3 s.h.
BUS-134	The Successful Entrepreneur.....	2 s.h.
BUS-136	Creativity, Innovation and Opportunity Analysis.....	2 s.h.
BUS-186	Business Law II.....	3 s.h.
BUS-225	Business Internships.....	1-5 s.h.
CIS-332	Database and SQL.....	3 s.h.
MAT-161	Business Statistics.....	3 s.h.
MGT-101	Principles of Management.....	3 s.h.
MGT-130	Principles of Supervision.....	3 s.h.
MGT-170	Human Resource Management.....	3 s.h.

For additional Business electives, see pages 128-129.

IST/Accounting Specialization



Many small- to medium-size businesses need employees who can do multiple tasks. The IST/Accounting Specialization provides opportunities for students to pursue employment in those small- to medium-size companies utilizing both their accounting and computer skills.

Placement requirements for this program are found on page 32. Upon completion of the curriculum with an average grade point of 2.00 (C), the student is awarded an Associate in Science (Business/Information Technology) Degree.

Career Opportunities

Students have the option of obtaining employment using their computer/accounting skills or transferring to a four-year institution and receiving a baccalaureate degree. Some job opportunities are listed below:

- Bookkeeper
- Computer Accounting Clerk
- Payroll Clerk
- Accounts Payable or Accounts Receivable Clerk
- Help Desk

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

ACC-111	Introduction to Accounting.....	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
BCA-101	Introduction to Computers & Information Systems.....	3 s.h.
BUS-102	Introduction to Business.....	3 s.h.
NET-135	Operating Systems I.....	3 s.h.
NET-213	CISCO Networking.....	4 s.h.
		16 s.h.

Second Term (Spring Semester)

ACC-121	Principles of Accounting I.....	3 s.h.
	OR ACC-122 Principles of Accounting II (3 s.h.)	
BCA-152	Electronic Spreadsheets.....	3 s.h.
NET-304	Windows Workstation Operating Systems.....	4 s.h.
	OR NET-112 Technology Essentials (3 s.h.)	
NET-743	Fundamental Project Management.....	4 s.h.
	Natural Science/Mathematics Elective(s).....	3 s.h.
		16-17 s.h.

Third Term (Summer)

	Humanities/Social Science Elective(s).....	9 s.h.
		9 s.h.

Second Year

Fourth Term (Fall Semester)

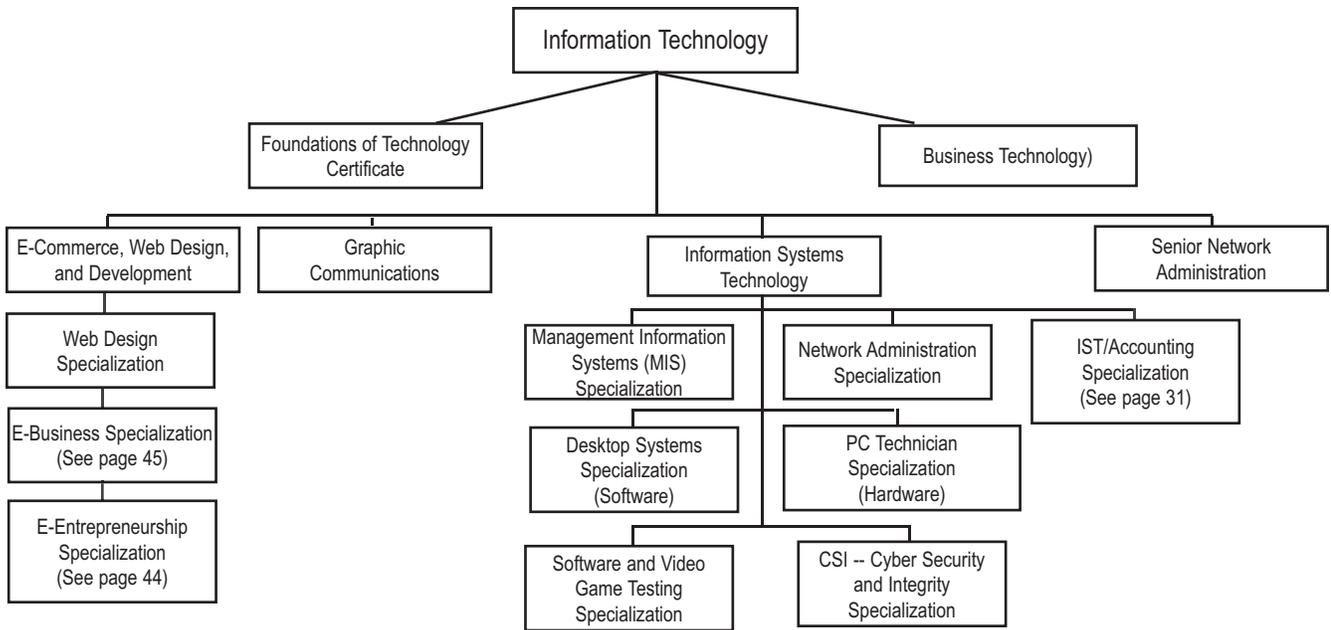
ACC-122	Principles of Accounting II (if not yet taken).....	3 s.h.
ACC-311	Computer Accounting.....	3 s.h.
BCA-103	Management Information Systems.....	3 s.h.
BUS-185	Business Law I.....	3 s.h.
CIS-210	Web Development I.....	3 s.h.
	OR BCA-185 Beginning Web Page Development (3 s.h.)	
ENG-102	Composition & Speech I.....	4 s.h.
		16-19 s.h.

Fifth Term (Spring Semester)

ACC-161	Payroll Accounting.....	3 s.h.
BUS-186	Business Law II.....	3 s.h.
ENG-103	Composition & Speech II.....	4 s.h.
GRA-299	Electronic Portfolio.....	3 s.h.
NET-613	Information Data Assurance.....	3 s.h.
		16 s.h.

Total Program Hours

73-77 s.h.



Placement Requirements for E-Commerce and IST Programs:

Students who meet the following will go directly into the technical core of the IST or E-Commerce program.

1. Math ACT score of at least 16 or a score of 49 or higher on the Pre-Algebra part of the COMPASS Test.
2. English ACT score of at least 13 or English COMPASS score of 45 or better.
3. Reading ACT score of at least 16 or COMPASS score of 66 or better.
4. 50% on the Information Technology Placement exam which will be available on-line.

Students who do not meet these placement standards will be placed in the Foundations of Technology courses that will help them develop the skills necessary to be successful in the program. Students may seek placement in the technology core courses in IST or E-Commerce by gaining written permission of the IT program leader or an approved IT instructor.

These courses are as follows:

- Appropriate level reading, writing, and math courses.
- Appropriate level of technology courses which may include:
 - NET-112, Technology Essentials
 - BCA-215, Computer Business Applications or BCA-101, Introduction to Computers**
 - BCA-185, Beginning Web Page Development

Foundations of Technology courses will transfer into several Information Technology program concentrations without adding to the length of their program.

Students taking the three Foundations of Technology courses may also earn a Certificate Program called "Foundations of Technology" by also completing these general education courses:

1. MAT-110, Math for Liberal Arts
2. ENG-102, Composition & Speech I **

**Students who may need a more basic start to the program may take BCA-215, Computer Business Applications, and RDG-125, College Reading Strategies. These courses do not transition into the IT programs and may extend the length of the student's program. However, they can still complete the Certificate with these courses.

Foundations of Technology Certificate

The Foundations of Technology Certificate will provide you a great foundation to move into an IT program or add skills to your resume. You'll make real-world connections between the classroom, the lab, and the work setting. Your teachers will work together as a team to make you job ready or prepare you to continue your education in a technology program.

Upon completion of the curriculum with an average grade point of 2.00 (C), the student is awarded a certificate and can go on to complete an Associate in Science (Business) Degree in an Information Technology program.

Required Courses/Suggested Schedule

BCA-215	Computer Business Applications	3 s.h.
	OR BCA-101 Introduction to Computers and Information Systems*** (3 s.h.)	
BCA-185	Beginning Web Page Development.....	3 s.h.
ENG-102	Composition & Speech I***	4 s.h.
	OR RDG-125 College Reading Strategies (3 s.h.)	
NET-112	Technology Essentials	3 s.h.
MAT-110	Math for Liberal Arts.....	3 s.h.

Total Program Hours 15/16 s.h.

*** These courses should be taken if bridging into IT Programs.

Career Opportunities

Students will gain and enhance their computer skills that can be used in any career path or as a bridge into Information Technology programs.

Skills include such applications as word processing, spreadsheets, databases; creating and editing basic web pages; scanning for viruses; hooking up printers, scanners, and other equipment.

Business Technology Specialization

NIACC's Business Technology program is designed for students who are interested in developing a solid foundation in business and have a keen interest in computers. Students will prepare themselves for the continually changing marketplace by learning both "job getting" and "job keeping" skills. This program provides students with a real "competitive advantage" when pursuing employment.

Upon completion of the curriculum with an average grade point of 2.00 (C), the student is awarded an Associate in Science (Business/Information Systems Technology) Degree. Students who know they wish to pursue a four-year degree and want to meet general education requirements of transfer institutions should pursue the A.A. degree. This will necessitate a slightly different curriculum.

Required Courses/Suggested Schedule

First Year

First Term

BCA-101	Introduction to Computers & Information Systems	3 s.h.
ENG-102	Composition & Speech I	4 s.h.
NET-112	Technology Essentials	3 s.h.
	Information Technology Elective	3 s.h.
	Humanities/Social Science Elective	3 s.h.
		16 s.h.

Second Term

BUS-151	Introduction to E-Commerce	3 s.h.
BUS-185	Beginning Web Page Development	3 s.h.
	OR CIS-210, Web Development I (3 s.h.)	
ENG-103	Composition & Speech II	4 s.h.
	Information Technology Elective	3 s.h.
	Humanities/Social Science Elective	3 s.h.
		16 s.h.

Second Year

Third Term

Information Technology Elective	5 s.h.
Business Elective	3 s.h.
Humanities/Social Science Elective	3 s.h.
Natural Science/Mathematics Elective	3 s.h.
	14 s.h.

Fourth Term

GRA-299	Electronic Portfolio	3 s.h.
	Information Technology Electives**	3 s.h.
	Business Elective	9 s.h.
		15 s.h.
Total Program Hours		61 s.h.

Career Opportunities

Support staff in Information Systems Technology, Management Information Systems, Personal Computer Hardware and/or Software, and Web Design.

For specific information, contact the North Iowa Career Center or the NIACC Business Division.

Recommended Business Elective Courses:

ACC-111	Introduction to Accounting	3 s.h.
ADM-131	Office Calculators	1 s.h.
ADM-145	Advanced Desktop	3 s.h.
BCA-129	Basic Word Processing	2 s.h.
BCA-136	Advanced Word Processing*	3 s.h.
BCA-152	Electronic Spreadsheets	3 s.h.
BCA-163	Microsoft Access	1 s.h.
BCA-170	Personal Information Management	2 s.h.
BCA-174	Basic Presentation Software	1 s.h.
BCA-215	Computer Business Applications	3 s.h.
BUS-102	Introduction to Business	3 s.h.
BUS-107	Business Careers	1 s.h.
BUS-121	Business Communications	3 s.h.
BUS-134	The Successful Entrepreneur	2 s.h.
BUS-136	Creativity, Innovation and Opportunity Analysis	2 s.h.
BUS-161	Human Relations	3 s.h.
BUS-225	Business Internships	1-5 s.h.
MGT-101	Principles of Management	3 s.h.
MKT-110	Principles of Marketing	3 s.h.
MKT-140	Principles of Selling	3 s.h.
MKT-150	Principles of Advertising	3 s.h.

*Prerequisites: BCA-215 and BCA-129

**Recommended Information Technology Elective Courses:

BCA-103	Management Information Systems	3 s.h.
BCA-185	Beginning Web Page Development	3 s.h.
CIS-119	Introduction to Programming	4 s.h.
CIS-125	Intro to Programming Logic With Language	3 s.h.
CIS-210	Web Development I	3 s.h.
CIS-211	Web Development II	3 s.h.
GRA-108	Visual Communication	3 s.h.
GRA-151	Web Design	3 s.h.
NET-113	IT Essentials	4 s.h.
NET-135	Operating Systems I	3 s.h.
NET-213	CISCO Networking	4 s.h.
NET-304	Windows Workstation Operating Systems	4 s.h.

Electives may be from all Information Technology courses in the catalog in any combination if prerequisites are met or instructor permission is obtained.

Business Internships

It's as easy as 1, 2, 3!

1. Talk to the Business Internship Coordinator or your Counselor to decide when in your college career you should participate in an internship.
2. Enroll in and pass Business Careers (BUS-107).
 - Business Careers is a 1 s.h., 5-week, pass/no pass course that is a prerequisite to Business Internships ~ it can be taken at any time prior to a Business Internship.
3. Upon passing Business Careers, the student is eligible for a Business Internship (BUS-225).
 - Students may register for a Business Internship only when they have located, secured and have had the internship site approved with the Business Internship Coordinator.
 - Business Internship credit ranges from 1 s.h. to 5 s.h. ~ this must be determined prior to registering for the course.

All students are highly encouraged to participate in a Business Internship before graduating.

E-Commerce, Web Design and Development

E-Commerce, Web Design and Development provides students an opportunity to gain both a general knowledge of this dynamic profession as well as greater levels of specialization in a student-chosen option of study. As such, each graduate will be exposed to a common core of knowledge in electronic commerce as well as specialized education in one of three programmatic options:

- E-Business (See page 45)
- E-Entrepreneurship (See page 44)
- Web Design

Upon completion of the curriculum with an average grade point of 2.00 (C), the student is awarded an Associate in Science (Business/E-Commerce, Web Design and Development) Degree.

Web Design Specialization



A graduate of the Web Design Specialization:

- directs and implements the creative development and utilization of all Web-based tools;
- creates and implements new technology that increases efficiency of product/service delivery systems and improves client/user interactivity;
- often works in a team environment with talented professionals;
- is experienced in the design and production of graphics/images that are compatible with Web Standards;
- proficiently utilizes standard graphics applications with skills producing vector images, bit map images, HTML, animation, and photo manipulation;
- directs the visual identity of Web site design as well as ensures content production is met on time and within budget.

Career Opportunities

- Web Site Developer
- Web Programmer
- Multimedia Designer
- Web Consultant

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

ART-120	Two-Dimensional Design	3 s.h.
BCA-101	Introduction to Computers & Information Systems	3 s.h.
CIS-125	Intro to Programming Logic with Language	3 s.h.
CIS-210	Web Development I	3 s.h.
ENG-102	Composition & Speech I	4 s.h.
		16 s.h.

Second Term (Spring Semester)

BUS-151	Intro to E-Commerce	3 s.h.
CIS-211	Web Development II	3 s.h.
GRA-108	Visual Communication	3 s.h.
NET-213	CISCO Networking	4 s.h.
	Humanities/Social Science Elective(s)	3 s.h.
		16 s.h.

Third Term (Summer)

	Humanities/Social Science Elective(s)	3 s.h.
		3 s.h.

Second Year

Fourth Term (Fall Semester)

ART-127	Digital Illustration	3 s.h.
GRA-151	Web Design	3 s.h.
GRA-166	Web Animation	3 s.h.
ENG-103	Composition & Speech II	4 s.h.
	Natural Science Elective	3 s.h.
		16 s.h.

Fifth Term (Spring Semester)

ART-115	Graphic Design	3 s.h.
ART-186	Digital Photography	3 s.h.
BCA-203	E-Commerce Cases	4 s.h.
GRA-299	Electronic Portfolio	3 s.h.
	Humanities/Social Science Elective(s)	3 s.h.
		16 s.h.

Total Program Hours **67 s.h.**

Graphic Communications

(Pending approval by the Iowa Department of Education.)

As a Graphic Designer (or Graphic Artist) creativity is crucial. Graphic Designers must possess a strong sense of aesthetics, color and detail, along with a sense of balance, proportion and beauty. Graphic Designers must produce designs that are appropriate for a given context and in accordance to the needs of the client, the ultimate function for which the design is intended and its appeal to customer and user audience.

Upon graduation, Graphic Designers find jobs in publishing companies, advertising agencies, design firms or large corporations working within a variety of design mediums including print, desktop publishing, electronic and film media, and web content. However, a substantial percentage of Graphic Designers are able to freelance or work from home.

For placement information, contact the North Iowa Career Center or the NIACC Business Division. Upon completion of the curriculum with a grade point average of 2.00 (C), the student is awarded an Associate in Science (Business/Graphic Communications) degree. Students who wish to obtain a four-year degree and want to meet general education requirements of transfer institutions should pursue the A.A. degree as well. This will necessitate a slightly different curriculum. Students interested in transferring to complete a four-year degree may also want to consider taking the following classes:

ART-144	Painting II	3 s.h.
ART-203	Art History I	3 s.h.
ART-204	Art History II	3 s.h.

Entrance Requirements

Specific entrance requirements are spelled out on page 32 of this course catalog.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

ART-120	2-D Design	3 s.h.
ART-133	Drawing I	3 s.h.
CIS-210	Web Development I	3 s.h.
	OR BCA-185, Beginning Web Page Development (3 s.h.)	
ENG-102	Composition & Speech I	4 s.h.
	Business Elective(s).....	3 s.h.
		16 s.h.

Second Term (Spring Semester)

ART-115	Graphic Design	3 s.h.
ART-143	Painting I	3 s.h.
ART-186	Digital Photography.....	3 s.h.
GRA-108	Visual Communication	3 s.h.
ENG-103	Composition & Speech II	4 s.h.
		16 s.h.

Second Year

Third (Fall Semester)

ART-116	Graphic Design II	3 s.h.
GRA-117	Principles of Illustration	3 s.h.
GRA-166	Web Animation	3 s.h.
GRA-173	Typography	3 s.h.
	Business Elective(s).....	3 s.h.
		15 s.h.

Fourth Term (Spring Semester)

ART-131	Digital Publication Design	3 s.h.
GRA-194	Design Studio Applications	3 s.h.
GRA-299	Electronic Portfolio	3 s.h.
	Business Elective(s).....	3 s.h.
	Natural Science/Math Elective(s).....	3 s.h.
		15 s.h.

Total Program Hours

62 s.h.

For a list of Business electives, see pages 128-129.

Career Opportunities

- Graphic Designer
- Production Artist
- Signage Designer
- Screenprinter
- Advertising Layout
- Print Industry
- Freelance Artist

Management Information Systems (MIS) Specialization

The MIS Specialization studies business process flow, information process flow, programming, database management, and groupware. The student develops a sound background for the field of MIS.



Career Opportunities

The MIS Specialization is designed primarily for a student to transfer to a four-year institution and receive a baccalaureate degree in MIS or a related field. Some job opportunities are listed below:

- Computer Support Specialist
- Technical Writers
- IT Sales and/or Training

Upon receiving a four-year MIS degree, opportunities exist within IT departments working with everything from programming to developing new information systems.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

BCA-101	Introduction to Computers & Information Systems	3 s.h.
CIS-125	Intro to Programming Logic With Language	3 s.h.
ENG-102	Composition & Speech I	4 s.h.
NET-135	Operating Systems I	3 s.h.
NET-213	CISCO Networking.....	4 s.h.
		17 s.h.

Second Term (Spring Semester)

BUS-102	Introduction to Business.....	3 s.h.
ENG-103	Composition & Speech II	4 s.h.
CIS-119	Introduction to Programming.....	4 s.h.
NET-743	Fundamental Project Management.....	4 s.h.
		15 s.h.

Third Term (Summer)

Humanities/Social Science Elective(s).....	3 s.h.
	3 s.h.

Second Year

Fourth Term (Fall Semester)

BCA-103	Management Information Systems	3 s.h.
CIS-172	Java.....	4 s.h.
CIS-210	Web Development I	3 s.h.
	OR BCA-185 Beginning Web Page Development (3 s.h.)	
CIS-332	Database and SQL.....	3 s.h.
	Natural Science/Mathematics Elective(s)	3 s.h.
		16 s.h.

Fifth Term (Spring Semester)

GRA-299	Electronic Portfolio	3 s.h.
NET-112	Technology Essentials	3 s.h.
	OR BUS-151 Intro to E-Commerce (3 s.h.)	
	OR MGT-101 Principles of Management (3 s.h.)	
NET-613	Information Data Assurance.....	3 s.h.
	Humanities/Social Science Elective(s).....	6 s.h.
		15 s.h.

Total Program Hours

66 s.h.

Software and Video Game Testing Specialization

Application testing is a very important part of all software development, whether for business applications, operating systems, or video games. For example, the PC- and video-game industry has become one of the largest players in entertainment. There is a growing need for people to test new games before they go to market. Students that enroll in Software and Video Game Testing will learn firsthand the internals of computer software by studying business applications and PC-based games, as well as techniques used in thoroughly testing on many platforms. This two-year degree will supply all of the knowledge needed to become a successful software or game tester as well as construct the foundation for continuing on in design, development, and programming.

Career Opportunities

- Game Tester
- Software Tester
- Quality Assurance
- Quality Control

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

BCA-101	Introduction to Computers and Information Systems.....	3 s.h.
CIS-125	Intro to Programming Logic with Language.....	3 s.h.
CIS-155	Intro to Video Game Testing.....	3 s.h.
ENG-102	Composition and Speech I.....	4 s.h.
	Social Science Elective(s).....	3 s.h.
		16 s.h.

Second Term (Spring Semester)

CIS-119	Introduction to Programming.....	4 s.h.
CIS-156	Testing Concepts.....	4 s.h.
CIS-210	Web Development I.....	3 s.h.
CIS-332	Database and SQL.....	3 s.h.
NET-213	CISCO Networking.....	4 s.h.
		18 s.h.

Second Year

Third Term (Fall Semester)

CIS-246	Intermediate Testing Concepts.....	4 s.h.
ENG-103	Composition and Speech II.....	4 s.h.
MAT-110	Math for Liberal Arts.....	3 s.h.
NET-113	IT Essentials.....	4 s.h.
		15 s.h.

Fourth (Spring Semester)

CIS-275	Advanced Testing Concepts.....	3 s.h.
CIS-276	Testing Cases.....	4 s.h.
GRA-299	Electronic Portfolio.....	3 s.h.
NET-743	Fundamental Project Management.....	4 s.h.
	Social Science Elective(s).....	6 s.h.
		20 s.h.

Total Program Hours 69 s.h.

CSI - Cyber Security and Integrity Specialization

Cyber Security specialization prepares students for rewarding careers in the dynamic field of computer security. Cyber Security is currently the fastest growing segment within the Information Technology Industry. Cyber Security has a profound impact on how Network Administrators and IT managers design and safeguard their own networks and when communicating with other networks outside of their control. It has also had a profound impact on how companies conduct business with their customers. Industries such as banking and finance, transportation, and health care have been at the forefront in Cyber Security.

Entrance Requirements

Specific entrance requirements are available on page 32 of this course catalog.

Career Opportunities

- Computer Network Administrator
- Computer Network Analyst
- Computer Support Specialist
- IT Security Specialist

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

CIS-210	Web Development I*	3 s.h.
	OR BCA-185, Beginning Web Page Development (3 s.h.)	
ENG-102	Composition and Speech I	4 s.h.
NET-113	IT Essentials	4 s.h.
NET-213	CISCO Networking	4 s.h.
	Natural Science Elective(s)	3 s.h.
		18 s.h.

*BCA-185, Beginning Web Page Development may be substitute.

Second Term (Spring Semester)

ENG-103	Composition and Speech II	4 s.h.
NET-223	CISCO Routers	4 s.h.
NET-304	Windows Workstation Operating Systems	4 s.h.
NET-743	Fundamental Project Management	4 s.h.
		16 s.h.

Third Term (Summer)

CFR-100	Computer Forensics I	3 s.h.
	Humanities/Social Science Elective(s)	3 s.h.
		6 s.h.

Second Year

Fourth Term (Fall Semester)

NET-201	Network LANs & WANs	4 s.h.
NET-246	Perimeter Defense	3 s.h.
NET-314	Windows Server	4 s.h.
NET-613	Information Data Assurance	3 s.h.
	Natural Science/Mathematics Elective(s)	3 s.h.
		17 s.h.

Fifth Term (Spring Semester)

GRA-299	Electronic Portfolio	3 s.h.
NET-247	Internal Defense	3 s.h.
NET-324	Windows Network Management	4 s.h.
NET-375	Cyber Security Design Cases	3 s.h.
NET-635	Ethical Hacking	3 s.h.
		16 s.h.

Total Program Hours

73 s.h.

Desktop Systems Specialization (Software)

The Desktop Systems Specialization (Software) studies operating systems, application use like databases, spreadsheets, advanced document handling, Microsoft Office Suite, and e-mail. Also, the basics in hardware are covered.

The program provides opportunities for students to pursue a variety of computer professional certifications including:

- A + Hardware Certification
- Security +
- Microsoft Office Specialist - Word, Excel, Access, PowerPoint, Outlook (MOS).



Career Opportunities

Students have the option of obtaining employment using their computer skills or transferring to a four-year institution and receiving a baccalaureate degree. Some job opportunities are listed below:

- Help Desk Support
- Software Support Specialist
- Technical Writers
- IT Sales and/or Training

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

BCA-101	Introduction to Computers & Information Systems	3 s.h.
BCA-129	Basic Word Processing	2 s.h.
BCA-174	Basic Presentation Software.....	1 s.h.
ENG-102	Composition & Speech I	4 s.h.
NET-113	IT Essentials.....	4 s.h.
	OR NET-112 Applied Technology (3 s.h.)	
NET-213	CISCO Networking.....	4 s.h.
		17-18 s.h.

Second Term (Spring Semester)

BCA-152	Electronic Spreadsheets	3 s.h.
NET-304	Windows Workstation Operating Systems.....	4 s.h.
NET-613	Information Data Assurance.....	3 s.h.
NET-743	Fundamental of Project Management.....	4 s.h.
	Natural Science/Mathematics Elective(s)	3 s.h.
		17 s.h.

Third Term (Summer)

Humanities/Social Science Elective(s).....	3 s.h.
	3 s.h.

Second Year

Fourth Term (Fall Semester)

CIS-210	Web Development I	3 s.h.
	OR BCA-185 Beginning Web Page Development (3 s.h.)	
ENG-103	Composition & Speech II	4 s.h.
NET-782	Computer Users Support	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		13 s.h.

Fifth Term (Spring Semester)

BCA-136	Advanced Word Processing.....	3 s.h.
BCA-163	Microsoft Access	1 s.h.
BCA-170	Personal Information Management.....	2 s.h.
CIS-332	Database and SQL.....	3 s.h.
GRA-299	Electronic Portfolio	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		15 s.h.

Total Program Hours **65-66 s.h.**

PC Technician Specialization (Hardware)



The PC Technician Specialization provides opportunities for students to pursue a variety of computer professional certifications including:

- Microsoft Certified Systems Administration (MCSA)
- Linux +
- A + Hardware Certification
- Security +

Business Internships

It's as easy as 1, 2, 3!

1. Talk to the Business Internship Coordinator or your Counselor to decide when in your college career you should participate in an internship.
2. Enroll in and pass Business Careers (BUS-107).
 - Business Careers is a 1 s.h., 5-week, pass/no pass course that is a prerequisite to Business Internships ~ it can be taken at any time prior to a Business Internship.
3. Upon passing Business Careers, the student is eligible for a Business Internship (BUS-225).
 - Students may register for a Business Internship only when they have located, secured and have had the internship site approved with the Business Internship Coordinator.
 - Business Internship credit ranges from 1 s.h. to 5 s.h. ~ this must be determined prior to registering for the course.

All students are highly encouraged to participate in a Business Internship before graduating.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

BCA-101	Introduction to Computers & Information Systems	3 s.h.
NET-113	IT Essentials	4 s.h.
NET-213	CISCO Networking.....	4 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		14 s.h.

Second Term (Spring Semester)

ENG-102	Composition & Speech I	4 s.h.
NET-133	Operating System Software Basics	4 s.h.
NET-304	Windows Workstation Operating Systems	4 s.h.
NET-743	Fundamental Project Management.....	4 s.h.
		16 s.h.

Third Term (Summer)

Humanities/Social Science Elective(s).....	3 s.h.
	3 s.h.

Second Year

Fourth Term (Fall Semester)

CIS-210	Web Development I	3 s.h.
	OR BCA-185 Beginning Web Page Development (3 s.h.)	
NET-314	Windows Server	4 s.h.
NET-782	Computer Users Support	3 s.h.
	Natural Science/Mathematics Elective(s)	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		16 s.h.

Fifth Term (Spring Semester)

BUS-107	Business Careers.....	1 s.h.
BUS-225*	Business Internships.....	2 s.h.
ENG-103	Composition & Speech II	4 s.h.
GRA-299	Electronic Portfolio	3 s.h.
NET-136	Operating Systems II	3 s.h.
NET-613	Information Data Assurance.....	3 s.h.
		16 s.h.

Total Program Hours **65 s.h.**

* NET-113, IT Essentials, and NET-782, Computer Users Support, must be completed before enrolling in BUS-225, Business Internships.

Career Opportunities

Students have the option of obtaining employment using their computer skills or transferring to a four-year institution and receiving a baccalaureate degree. Some job opportunities are listed below:

- Hardware Support for a small- to medium-size business
- Help Desk Support
- Technical Writers
- IT Sales and/or Training
- PC Technician Repair

Senior Network Administration

The Senior Network Administration Program is designed to prepare students for employment in network design and implementation in Fortune 500 corporations, Internet services providers, telephone companies, and consulting companies. This program allows the student to prepare for several CISCO Certifications including:

The CCNP (CISCO Certified Network Professional) certification indicates advanced or journeyman knowledge of networks. With a CCNP, a network professional can install, configure, and operate LAN, WAN, and dial access services for organizations with networks from 100 to more than 500 nodes, including but not limited to these protocols and topics: IP, IGRP, IPX, Async Routing, AppleTalk, Extended Access Lists, IP RIP, Route Redistribution, RIP, Route Summarization, OSPF, VLSM, BGP, Serial Frame Relay, ISDN, ISL, X.25, DDR, PSTN, PPP, VLANS, Ethernet, Access Lists, 802.10, FDDI, Transparent and Translational Bridging.

Students also gain project management skills and study emerging Internet and networking technologies.

NIACC's computer labs are equipped with the latest in computers and networking equipment to allow students the highest quality hands-on experience. Classes are lead by CISCO certified instructors.



Career Opportunities

Students who complete the Senior Network Administration program are prepared for employment in a variety of areas.

Positions may include:

- Network Designer/Infrastructure Specialist
- Network Administrator (LAN/WAN) for larger businesses
- Internet Service Provider
- Technology Coordinator in a school system
- Consultant
- Business Owner
- Computer & Information System Manager

Entrance Requirements

To enroll in the Senior Network Administration Program, students must meet at least one of the following requirements:

- Passed the CCNA exam and have a computer-related college degree, such as MIS.
- Passed the CCNA exam and have 2 years of professional computer experience, preferably in networking.
- Completed Networking I-IV from NIACC or another CISCO Academy with 70% or better final CISCO assessments.
- Successfully completed equivalent corporate CISCO CCNA training.

Students must meet all other general NIACC and IST requirements.

Individuals who do not meet these requirements and wish to attain the CCNA and/or CCNP certification, should complete NIACC's Information Systems Technology Program.

Classes may be scheduled day or night and students may need to take summer classes to complete the program in a timely manner.

Required Technical Courses/Suggested Schedule**

First Term (Fall Semester)

NET-260	Advanced Routing/Switching	6 s.h.
NET-160	Network Design and Documentation	3 s.h.
NET-743	Fundamental Project Management.....	4 s.h.
	Security Elective(s)	3 s.h.
		16 s.h.

Second Term (Spring Semester)

NET-264	CISCO WAN Remote Access	4 s.h.
NET-284	CISCO Support	4 s.h.
NET-301	Network Cases (Voice Over IP)	4 s.h.
	Security Elective(s)	3 s.h.
		15 s.h.

Total Program Hours **31 s.h.**

Security Electives

NET-635	Ethical Hacking	3 s.h.
NET-375	Cyber Security Design Cases	3 s.h.
NET-246	Perimeter Defense	3 s.h.
NET-247	Internal Defense.....	3 s.h.

** Courses at night will be 8 weeks in duration. Day courses will follow the NIACC academic calendar.

In order to receive the A.S.(B.) Degree in Senior Network Administration, students must satisfactorily complete the above technical core courses, satisfy 20 s.h. of general education, complete 9 s.h. of elective credits, and maintain an overall 2.00 (C) grade point average.



Entrepreneurship and Small Business Management

The Pappajohn Entrepreneurial Center began operations at NIACC in April 1997. The Center offers comprehensive entrepreneurial training and support programs for entrepreneurs, small business owners, and students.

The program provides students with an understanding of the many facets of entrepreneurship. Students will learn the process of identifying a business opportunity and developing an organization to establish a new venture. The curriculum will provide students with the proper tools to evaluate the feasibility of a new venture and to identify the available resources for assisting an entrepreneur during the start-up phase of the business.

Once a new venture has been launched, a new divergent set of challenges face the entrepreneur. The entrepreneur is typically responsible for strategic planning, financial management, marketing, human resource management, and operations. Although the entrepreneur may not be required to have a strong grasp of every specific detail, he/she must have a solid understanding of the critical issues facing the business. Thus, students will also receive instruction on managerial functions associated with owning a small business.

NIACC is working to combine classroom instruction with practical experience to enhance the development of a student's entrepreneurial and small business management skills. Students will have the opportunity to participate and interact with Entrepreneurs and Venture Capitalists from across the state of Iowa and the Midwest at a variety of events including the Iowa Venture Capital and Entrepreneur Conference, John Pappajohn New Venture Business Plan Competition, and the Collegiate Entrepreneurs' Iowa Conference.

Upon completion of the curriculum with a grade point average of 2.00 (C), the student is awarded an Associate in Science (Business/Entrepreneurship) Degree. With a few additional courses, a student can also earn an Associate in Arts Degree; assistance from a NIACC counselor is advised to ensure proper course curricula.



Required Courses/Suggested Schedule

First Year

First Term

BUS-102	Introduction to Business.....	3 s.h.
BUS-134	The Successful Entrepreneur	2 s.h.
BUS-136	Creativity, Innovation, and Opportunity Analysis.....	2 s.h.
ENG-102	Composition & Speech I	4 s.h.
MAT-156*	Introduction to Statistics.....	3 s.h.
		14 s.h.

* Or appropriate math course

Second Term

ACC-121	Principles of Accounting I.....	3 s.h.
ENG-103	Composition & Speech II	4 s.h.
MKT-110	Principles of Marketing.....	3 s.h.
MKT-140	Principles of Selling.....	3 s.h.
	Elective(s)	3 s.h.
		16 s.h.

Second Year

Third Term

ACC-122	Principles of Accounting II.....	3 s.h.
BUS-142	Planning the Entrepreneurial Venture.....	3 s.h.
BUS-185	Business Law I.....	3 s.h.
ECN-120	Principles of Macroeconomics	3 s.h.
MGT-101	Principles of Management	3 s.h.
		15 s.h.

Fourth Term

BUS-186	Business Law II.....	3 s.h.
ECN-130	Principles of Microeconomics	3 s.h.
MAT-140	Finite Math	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
	Elective.....	1 s.h.
		13 s.h.

BUS-298**	Seminar in Entrepreneurship	3 s.h.
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Total Program Hours 61 s.h.

** Please meet with your advisor in the Pappajohn Center prior to scheduling this class. May be taken during your summer session, third or fourth semester.

Elective

Humanities	3 s.h.
OR Social Science (3 s.h.)	
Electives	4 s.h.

Recommended Electives

BCA-101	Introduction to Computers and Information Systems...3 s.h.
MAT-161	Business Statistics

To add A.A. Degree:

Move 7 s.h. of electives to General Education Core	
Add 10 s.h. of General Education Core	
Total	17 s.h.

Career Opportunities

- By taking entrepreneurial courses, you will become a motivated and valued employee, captain, leader, owner, or boss that understands how to take a problem and turn it into an opportunity.
- Learn the ABC's of starting and managing your own business.
- Understand the difference between a good idea and a real business opportunity.
- Knowing the basics of starting a company creates both value and experience that will be used throughout your career, despite the area of interest.

E-Entrepreneurship Specialization

A graduate of the E-Entrepreneurship Specialization:

- perceives and utilizes the Internet as a strategic advantage to achieve business goals;
- designs and builds complex electronic business systems for e-commerce start-ups;
- often works in a team environment with talented professionals;
- understands that the Web inherently involves the creation, transformation of relationships for value creation within organizations, between organizations (business-to-business e-commerce), and between organizations and individuals (business-to-consumer e-commerce);
- is skilled in developing and implementing a business plan, including marketing and financial resource development and management;
- accepts higher risks with the potential for higher rewards.

Upon completion of the curriculum with an average grade point of 2.00 (C), the student is awarded an Associate in Science (Business/E-Commerce, Web Design and Development) Degree.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

BUS-134	The Successful Entrepreneur	2 s.h.
CIS-125	Intro to Programming Logic with Language	3 s.h.
CIS-210	Web Development I	3 s.h.
ENG-102	Composition & Speech I	4 s.h.
NET-213	CISCO Networking	4 s.h.
		16 s.h.

Second Term (Spring Semester)

BUS-142	Planning the Entrepreneurial Venture	3 s.h.
BUS-151	Intro to E-Commerce	3 s.h.
CIS-211	Web Development II	3 s.h.
GRA-108	Visual Communication	3 s.h.
	Humanities/Social Science Elective(s)	3 s.h.
		15 s.h.

Third Term (Summer)

NET-613	Information Data Assurance	3 s.h.
	Business Elective(s)	3 s.h.
		6 s.h.

Second Year

Fourth Term (Fall Semester)

BUS-298	Seminar in Entrepreneurship	3 s.h.
ENG-103	Composition & Speech II	4 s.h.
	Business Elective(s)	6 s.h.
	Natural Science/Mathematics Elective(s)	3 s.h.
		16 s.h.

Fifth Term (Spring Semester)

BCA-203	E-Commerce Cases	4 s.h.
BUS-158	Internet Law	3 s.h.
GRA-299	Electronic Portfolio	3 s.h.
	Humanities/Social Science Elective(s)	6 s.h.
		16 s.h.

Total Program Hours **69 s.h**

Career Opportunities

- Business Owner
- Web Consultant
- Management Consultant



The Pappajohn Entrepreneurial Certificate Program



The John Pappajohn Entrepreneurial Certificate Program is designed for the aspiring student entrepreneur and is ideal for any student who someday would like to own and operate a business of his or her own. Students will be able to explore a new business idea, conduct market research, prepare marketing and financial plans, and learn basic skills on how to own, operate, and manage the business.

Required Courses/Suggested Schedule

ACC-111	Introduction to Accounting	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
BUS-102	Introduction to Business	3 s.h.
BUS-134	The Successful Entrepreneur	2 s.h.
BUS-136	Creativity, Innovation, and Opportunity Analysis	2 s.h.
BUS-142	Planning the Entrepreneurial Venture	3 s.h.
MKT-110	Principles of Marketing	3 s.h.
	Total Program Hours	16 s.h.

Career Opportunities

- This specially designed certificate course allows students in any academic program to learn the essential elements of creating and managing their own entrepreneurial venture.
- Students will focus on the core business disciplines that will assist them in any new business venture.
- Learn how to create a road map that will allow you to attract start-up funding, market your idea, and grow your entrepreneurial venture.
- The Entrepreneurial Certificate Program will teach you the basics of business ownership, and these skills will help you find employment.

E-Business Specialization



A graduate of the E-Business Specialization:

- provides strategic e-commerce marketing planning, including competitive analysis, electronic business planning, systems planning and organizational structuring to support and enhance the company's overall marketing efforts;
- develops complete business strategy, technology architecture and planning, design and development of new applications utilizing the Web;
- often works in a team environment with talented professionals;
- is able to rationalize and formulate new/current marketing techniques for an organization's return on investment (ROI) and cost savings;
- directs corporate Web marketing, e-business strategies, and Web departments toward meeting business objectives.

Upon completion of the curriculum with an average grade point of 2.00 (C), the student is awarded an Associate in Science (Business/E-Commerce, Web Design and Development) Degree.

Career Opportunities

- Business Analyst
- Management Consultant
- Marketing Manager
- Web Development Manager

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

BUS-102	Introduction to Business.....	3 s.h.
CIS-125	Intro to Programming Logic with Language.....	3 s.h.
CIS-210	Web Development I.....	3 s.h.
ENG-102	Composition & Speech I.....	4 s.h.
NET-213	CISCO Networking.....	4 s.h.
		17 s.h.

Second Term (Spring Semester)

BUS-151	Intro to E-Commerce.....	3 s.h.
GRA-108	Visual Communications.....	3 s.h.
MGT-101	Principles of Management.....	3 s.h.
	Business Elective(s).....	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		15 s.h.

Third Term (Summer)

NET-613	Information Data Assurance.....	3 s.h.
	Natural Science/Mathematics Elective(s).....	3 s.h.
		6 s.h.

Second Year

Fourth Term (Fall Semester)

ENG-103	Composition & Speech II.....	4 s.h.
MKT-110	Principles of Marketing.....	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
	Business Elective(s).....	6 s.h.
		16 s.h.

Fifth Term (Spring Semester)

BCA-203	E-Commerce Cases.....	4 s.h.
BUS-158	Internet Law.....	3 s.h.
CIS-211	Web Development II.....	3 s.h.
GRA-299	Electronic Portfolio.....	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		16 s.h.

Total Program Hours **70 s.h.**

Financial Management/Insurance

NIACC's Financial Management/Insurance Program is designed to prepare graduates with employable skills related to the insurance and financial management career fields.

The purpose of this degree is to provide a degree goal for students who choose to follow a course of study designed to give the student the option of obtaining employment in business.

Upon completion of the curriculum with a grade point average of 2.00 (C), the student is awarded an Associate in Science (Business/Financial Management) Degree.

Students who know they wish to pursue a four-year degree and want to meet general education requirements of transfer institutions should pursue the A.A. Degree.

Business Internships

It's as easy as 1, 2, 3!

1. Talk to the Business Internship Coordinator or your Counselor to decide when in your college career you should participate in an internship.
2. Enroll in and pass Business Careers (BUS-107).
 - Business Careers is a 1 s.h., 5-week, pass/no pass course that is a prerequisite to Business Internships ~ it can be taken at any time prior to a Business Internship.
3. Upon passing Business Careers, the student is eligible for a Business Internship (BUS-225).
 - Students may register for a Business Internship only when they have located, secured and have had the internship site approved with the Business Internship Coordinator.
 - Business Internship credit ranges from 1 s.h. to 5 s.h. ~ this must be determined prior to registering for the course.

All students are highly encouraged to participate in a Business Internship before graduating.

Career Opportunities

- Insurance Agent
- Insurance Office Manager
- Financial Services Representative

Required Courses/Suggested Schedule

First Year

First Term

BCA-101	Introduction to Computers and Information Systems...	3 s.h.
BUS-102	Introduction to Business.....	3 s.h.
BUS-260	Introduction to Insurance	3 s.h.
ENG-102	Composition & Speech I	4 s.h.
MAT-110	Math for Liberal Arts.....	3 s.h.
		16 s.h.

Second Term

BCA-152	Electronic Spreadsheets	3 s.h.
BUS-266	Property & Casualty Insurance	3 s.h.
ENG-103	Composition & Speech II	4 s.h.
MAT-140	Finite Math	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		16 s.h.

Second Year

Third Term

ACC-111	Introduction to Accounting.....	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
BUS-185	Business Law I.....	3 s.h.
BUS-267	Life, Health, & Disability Insurance	3 s.h.
ECN-120	Principles of Macroeconomics	3 s.h.
	Elective(s)	3 s.h.
		15 s.h.

Fourth Term

ACC-122	Principles of Accounting II.....	3 s.h.
BUS-107	Business Careers.....	1 s.h.
BUS-186	Business Law II.....	3 s.h.
BUS-225	Business Internships	2 s.h.
ECN-130	Principles of Microeconomics	3 s.h.
	Elective(s)	3 s.h.
		15 s.h.

Total Program Hours **62 s.h.**

Elective Courses

ACC-311	Computer Accounting.....	3 s.h.
ADM-105	Introduction to Keyboarding.....	1 s.h.
ADM-108	Keyboarding Skill Development	1 s.h.
ADM-123	Document Formatting	3 s.h.
ADM-131	Office Calculators.....	1 s.h.
BUS-161	Human Relations	3 s.h.
MAT-161	Business Statistics	3 s.h.
MGT-101	Principles of Management	3 s.h.
MKT-110	Principles of Marketing.....	3 s.h.
MKT-140	Principles of Selling.....	3 s.h.

For additional Business electives, see pages 128-129.

General Business



NIACC's General Business Program is a dual-purpose program designed to give the student the option of obtaining employment upon graduation or transferring to a four-year institution. It is for the student who is interested in business but does not have a particular area in mind.

Graduates are generally placed in sales, management, or general business (office, shipping and receiving, quality control) positions with industrial and retail firms. For specific placement information, contact the North Iowa Career Center or the NIACC Business Division.

Upon completion of the curriculum with a grade point average of 2.00 (C), the student is awarded an Associate in Science (Business/General Business) Degree. Students who know they wish to pursue a four-year degree and want to meet general education requirements of transfer institutions, should pursue the A.A. Degree. This will necessitate a slightly different curriculum.

Business Internships

It's as easy as 1, 2, 3!

1. Talk to the Business Internship Coordinator or your Counselor to decide when in your college career you should participate in an internship.
2. Enroll in and pass Business Careers (BUS-107).
 - Business Careers is a 1 s.h., 5-week, pass/no pass course that is a prerequisite to Business Internships ~ it can be taken at any time prior to a Business Internship.
3. Upon passing Business Careers, the student is eligible for a Business Internship (BUS-225).
 - Students may register for a Business Internship only when they have located, secured and have had the internship site approved with the Business Internship Coordinator.
 - Business Internship credit ranges from 1 s.h. to 5 s.h. ~ this must be determined prior to registering for the course.

All students are highly encouraged to participate in a Business Internship before graduating.

Required Courses/Suggested Schedule

First Year

First Term

BCA-215	Computer Business Applications	3 s.h.
	OR BCA-101 Introduction to Computers and Information Systems (3 s.h.)	
BUS-102	Introduction to Business	3 s.h.
BUS-185	Business Law I	3 s.h.
ECN-120	Principles of Macroeconomics	3 s.h.
ENG-102	Composition & Speech I	4 s.h.
		16 s.h.

Second Term

BUS-186	Business Law II	3 s.h.
ECN-130	Principles of Microeconomics	3 s.h.
ENG-103	Composition & Speech II	4 s.h.
MAT-110	Mathematics for Liberal Arts*	3 s.h.
	Elective(s)	3 s.h.
		16 s.h.

Second Year

Third Term

ACC-111	Introduction to Accounting.....	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
BUS-161	Human Relations	3 s.h.
MGT-101	Principles of Management	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
	Business Elective(s)**	3 s.h.
		15 s.h.

Fourth Term

BCA-152	Electronic Spreadsheets	3 s.h.
MAT-140	Finite Math	3 s.h.
MKT-110	Principles of Marketing.....	3 s.h.
	Elective(s)**	4 s.h.
		13 s.h.

Total Program Hours **60 s.h.**

* MAT-110 or higher level math course

** Recommended electives

Recommended Elective Courses

ACC-122	Principles of Accounting II.....	3 s.h.
ADM-131	Office Calculators	1 s.h.
BUS-107	Business Careers.....	1 s.h.
BUS-134	The Successful Entrepreneur	2 s.h.
BUS-136	Creativity, Innovation, and Opportunity Analysis.....	2 s.h.
BUS-142	Planning the Entrepreneurial Venture	3 s.h.
BUS-225	Business Internships.....	1-5 s.h.
BUS-260	Introduction to Insurance	3 s.h.
BUS-298	Seminar in Entrepreneurship	3 s.h.
MAT-161	Business Statistics	3 s.h.
MGT-130	Principles of Supervision.....	3 s.h.
MGT-170	Human Resource Management	3 s.h.
MKT-140	Principles of Selling.....	3 s.h.
MKT-150	Principles of Advertising.....	3 s.h.

For additional Business electives, see pages 128-129.

Career Opportunities

Some of the occupational areas in which job opportunities may be found are:

- Sales
- General Business (office, shipping and receiving, quality control)
- Management
- Positions within industrial, wholesale or retail firms

For specific information, contact the North Iowa Career Center or the NIACC Business Division.

General Business/Banking Option

This program is designed to help persons presently employed in banking to further their careers and to prepare students entering the job market for entry-level positions in banking and other financial firms. For specific placement information, contact the North Iowa Career Center or the NIACC Business Division.

Upon completion of the curriculum with an average grade point of 2.00 (C), the student is awarded an Associate in Science (Business/General Business-Banking) Degree. Students who know they wish to pursue a four-year degree and want to meet general education requirements of transfer institutions should pursue the A.A. Degree. This will necessitate a slightly different curriculum.

Business Internships

It's as easy as 1, 2, 3!

1. Talk to the Business Internship Coordinator or your Counselor to decide when in your college career you should participate in an internship.
2. Enroll in and pass Business Careers (BUS-107).
 - Business Careers is a 1 s.h., 5-week, pass/no pass course that is a prerequisite to Business Internships ~ it can be taken at any time prior to a Business Internship.
3. Upon passing Business Careers, the student is eligible for a Business Internship (BUS-225).
 - Students may register for a Business Internship only when they have located, secured and have had the internship site approved with the Business Internship Coordinator.
 - Business Internship credit ranges from 1 s.h. to 5 s.h. ~ this must be determined prior to registering for the course.

All students are highly encouraged to participate in a Business Internship before graduating.

Career Opportunities

Successful graduates can find job opportunities in the following occupational areas:

- Commercial/Ag Lender
- Consumer Lending
- Marketing Officer
- Night Processor
- Personal Banker
- Real Estate Lending
- Retail Banking Officer
- Teller
- Teller Manager

Required Courses/Suggested Schedule

First Year

First Term

ACC-111	Introduction to Accounting.....	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
ECN-120	Principles of Macroeconomics	3 s.h.
ENG-102	Composition & Speech I	3-4 s.h.
FIN-101	Principles of Banking	3 s.h.
SPC-111	Public Speaking*	2 s.h.
	Elective(s)	1-2 s.h.
		15-17 s.h.

Second Term

ACC-122	Principles of Accounting II.....	3 s.h.
ENG-103	Composition & Speech II	3-4 s.h.
PSY-111	Introduction to Psychology.....	3 s.h.
	Mathematics**	3 s.h.
	Business Elective(s).....	3 s.h.
		15-16 s.h.

Second Year

Third Term

BCA-101	Introduction to Computers and Information Systems...	3 s.h.
BUS-185	Business Law I.....	3 s.h.
MAT-140	Finite Math	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
	Business Elective(s).....	3 s.h.
		15 s.h.

Fourth Term

BUS-161	Human Relations	3 s.h.
BUS-186	Business Law II.....	3 s.h.
	Business Elective(s).....	3 s.h.
	Elective(s)	6 s.h.
		15 s.h.

Total Program Hours

60-63 s.h.

* Not required if the student enrolls in Composition & Speech (8 s.h.)

** MAT-110 or higher level math course

Recommended Business Elective Courses

ADM-105	Introduction to Keyboarding.....	1 s.h.
ADM-108	Keyboarding Skill Development.....	1 s.h.
ADM-123	Document Formatting	3 s.h.
ADM-131	Office Calculators	1 s.h.
BCA-152	Electronic Spreadsheets	3 s.h.
BUS-102	Introduction to Business.....	3 s.h.
BUS-107	Business Careers.....	1 s.h.
BUS-134	The Successful Entrepreneur	2 s.h.
BUS-136	Creativity, Innovation, and Opportunity Analysis.....	2 s.h.
BUS-142	Planning the Entrepreneurial Venture.....	3 s.h.
BUS-225	Business Internships.....	1-5 s.h.
BUS-298	Seminar in Entrepreneurship	3 s.h.
ECN-130	Principles of Microeconomics	3 s.h.
MGT-101	Principles of Management	3 s.h.
POL-111	American National Government.....	3 s.h.
POL-112	American, State, & Local Government	3 s.h.
RDG-130	College Reading Strategies	3 s.h.
SOC-110	Introduction to Sociology.....	3 s.h.
SOC-115	Social Problems	3 s.h.

For additional Business electives, see pages 128-129.

General Business/Marketing and Sales Option

Marketing and Sales is a 30-semester-hour program designed to meet the needs of the adult who is attending classes primarily at night. Successful completion of the curriculum should make a graduate employable in sales and marketing. In addition, all the courses apply toward the two-year Associate in Science (Business) Degree.

Upon satisfactory completion of the prescribed curriculum with an average grade point of 2.00 (C), the student is awarded a diploma.

Business Internships

It's as easy as 1, 2, 3!

1. Talk to the Business Internship Coordinator or your Counselor to decide when in your college career you should participate in an internship.
2. Enroll in and pass Business Careers (BUS-107).
 - Business Careers is a 1 s.h., 5-week, pass/no pass course that is a prerequisite to Business Internships ~ it can be taken at any time prior to a Business Internship.
3. Upon passing Business Careers, the student is eligible for a Business Internship (BUS-225).
 - Students may register for a Business Internship only when they have located, secured and have had the internship site approved with the Business Internship Coordinator.
 - Business Internship credit ranges from 1 s.h. to 5 s.h. ~ this must be determined prior to registering for the course.

All students are highly encouraged to participate in a Business Internship before graduating.

Required Courses/Suggested Schedule

Diploma Program

First Term

ACC-111	Introduction to Accounting.....	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
BUS-185	Business Law I.....	3 s.h.
ECN-120	Principles of Macroeconomics	3 s.h.
ENG-105	Composition I	3 s.h.
MKT-140	Principles of Selling.....	3 s.h.
		15 s.h.

Second Term

MGT-101	Principles of Management	3 s.h.
MKT-110	Principles of Marketing.....	3 s.h.
MKT-150	Principles of Advertising.....	3 s.h.
SPC-111	Public Speaking	2 s.h.
	OR SPC-131 Group Communication (2 s.h.)	
	Elective(s)	4 s.h.
		15 s.h.

Total Program Hours 30 s.h.

Recommended Business Elective Courses

ACC-122	Principles of Accounting II*	3 s.h.
ADM-131	Office Calculators	1 s.h.
BCA-101	Introduction to Computers and Information Systems...3 s.h.	
BCA-152	Electronic Spreadsheets	3 s.h.
BCA-215	Computer Business Applications	3 s.h.
BUS-107	Business Careers.....	1 s.h.
BUS-134	The Successful Entrepreneur	2 s.h.
BUS-136	Creativity, Innovation, and Opportunity Analysis.....2 s.h.	
BUS-142	Planning the Entrepreneurial Venture.....3 s.h.	
BUS-102	Introduction to Business.....	3 s.h.
BUS-186	Business Law II.....	3 s.h.
BUS-225	Business Internships.....	1-5 s.h.
BUS-298	Seminar in Entrepreneurship	3 s.h.
ECN-130	Principles of Microeconomics	3 s.h.
ENG-106	Composition II **	3 s.h.
MGT-130	Principles of Supervision.....	3 s.h.
MGT-170	Human Resource Management.....	3 s.h.
	Mathematics.....	3 s.h.

* Prerequisite ACC-121 Principles of Accounting I

**Prerequisite ENG-102 Composition & Speech I

For additional Business electives, see pages 128-129.

Career Opportunities

Successful graduates can find job opportunities in the following occupational areas:

- Sales Clerk
- Sales Representative
- Sales Management Trainee

For specific information, contact the North Iowa Career Center or the NIACC Business Division.

Hospitality/Food Service Management



NIACC's Hospitality/Food Service Management Program provides each student with a foundation in the hospitality and food service industry. The program is designed to give the student the option of employment upon graduation or pursuit of an advanced degree at a four-year institution.

Graduates are prepared for food preparation, entry-level supervision, or management positions. Employment may also be obtained in food marketing or as a sales representative for food distribution.

Upon completion of the curriculum with a grade point average of 2.00 (C), the student is awarded an Associate in Applied Science degree with an emphasis in Hospitality/Food Service Management. Students who know they wish to pursue a four-year degree and want to meet general education requirements of transfer institutions, should pursue the A.A. degree. This will necessitate a slightly different curriculum.

Diploma Option Requirements

A diploma in Hospitality/Food Service Management is granted to a student who has completed the first two semesters plus the Business Internship requirements. A minimum cumulative grade point average of 2.00 (C) is required. Developmental courses are not used in calculating the cumulative grade point average for graduation.

Career Opportunities

Successful graduates can find job opportunities in the following occupational areas:

- Catering and Banquet Manager
- Cook or Chef's Assistant
- Food Production Manager
- Kitchen or Dining Room Supervisor
- Restaurant Manager or Assistant Manager

Required Courses/Suggested Schedule

First Year

First Term

BUS-102	Introduction to Business.....	3 s.h.
ENG-105	Composition I.....	3 s.h.
HCM-103	ServSafe Food Safety+	1 s.h.
HCM-135	Food Production+	4 s.h.
HCM-607	Hospitality and Restaurant Management+	2 s.h.
		13 s.h.

Second Term

ACC-111	Introduction to Accounting.....	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
BCA-215	Computer Business Applications.....	3 s.h.
BUS-161	Human Relations.....	3 s.h.
HCM-239	Customer Service+	2 s.h.
HCM-283	Controlling Food Service Costs+	2 s.h.
HCM-325	Human Resources Management and Supervision+..	2 s.h.
		15 s.h.

Business Internship

BUS-107	Business Careers.....	1 s.h.
BUS-225	Business Internships+	4 s.h.
		5 s.h.

Second Year

Third Term

HCM-232	Culinary Nutrition.....	2 s.h.
MKT-140	Principles of Selling.....	3 s.h.
SPC-111	Public Speaking.....	2 s.h.
	Business Elective(s).....	3 s.h.
	Math/Social Science/OR Humanities Elective(s).....	6 s.h.
		16 s.h.

Fourth Term

HCM-205	Dinner and Front of the House.....	3 s.h.
HCM-236	Culinary Arts and Book of Yields.....	2 s.h.
MGT-101	Principles of Management.....	3 s.h.
	Business Elective(s).....	3 s.h.
	Math/Social Science/OR Humanities Elective(s).....	3 s.h.
		14 s.h.

Total Program Hours **63 s.h.**

+ Upon successful completion of this course, a student will receive a certificate from the National Restaurant Association showing competence in this area. This program contains seven courses in which students may earn certifications. A student who earns all seven certifications will receive additional recognition from the National Restaurant Association.

Recommended Electives

ACC-122	Principles of Accounting II.....	3 s.h.
ADM-131	Office Calculators.....	1 s.h.
BCA-152	Electronic Spreadsheets.....	3 s.h.
BUS-134	The Successful Entrepreneur.....	2 s.h.
BUS-136	Creativity, Innovation, and Opportunity Analysis.....	2 s.h.
BUS-142	Planning the Entrepreneurial Venture.....	3 s.h.
BUS-185	Business Law I.....	3 s.h.
ECN-120	Principles of Macroeconomics.....	3 s.h.
ECN-130	Principles of Microeconomics.....	3 s.h.
FLS-141	Elementary Spanish I.....	3 s.h.
MGT-101	Principles of Management.....	3 s.h.
MGT-170	Human Resource Management.....	3 s.h.
MKT-110	Principles of Marketing.....	3 s.h.
MKT-140	Principles of Selling.....	3 s.h.
MKT-150	Principles of Advertising.....	3 s.h.
PHI-105	Introduction to Ethics.....	3 s.h.

For additional Business electives, see pages 128-129.

Sport Management



Sport Management is a field of study which prepares students for careers in the sport, recreation, and fitness industry. Students in the program will learn principles of business, including marketing, finance, management, and law while applying those principles to different areas of the sport industry.

As a key part of the Sport Management Degree at NIACC, students will be required to gain internship credit for 3-6 semester hours. Internships give students the opportunity to apply their knowledge gained in the classroom to work in the field.

Upon completion of the curriculum with an average grade point of 2.00 (C), the student is awarded an Associate in Science (Business/Sport Management) Degree.

Students who know they wish to pursue a four-year degree and want to meet general education requirements of transfer institutions should pursue the A.A. Degree. This will necessitate a slightly different curriculum.

Business Internships

It's as easy as 1, 2, 3!

1. Talk to the Business Internship Coordinator or your Counselor to decide when in your college career you should participate in an internship.
2. Enroll in and pass Business Careers (BUS-107).
 - Business Careers is a 1 s.h., 5-week, pass/no pass course that is a prerequisite to Business Internships ~ it can be taken at any time prior to a Business Internship.
3. Upon passing Business Careers, the student is eligible for a Business Internship (BUS-225).
 - Students may register for a Business Internship only when they have located, secured and have had the internship site approved with the Business Internship Coordinator.
 - Business Internship credit ranges from 1 s.h. to 5 s.h. ~ this must be determined prior to registering for the course.

All students are highly encouraged to participate in a Business Internship before graduating.

Career Opportunities

Students who graduate with a 4-year sport management degree will be prepared for employment in a wide range of fields, including:

- intercollegiate athletics
- high school athletics
- professional sport, recreation, and fitness organizations
- a variety of other sport-related businesses

Employment opportunities abound in the sport and recreation field.

Required Courses/Suggested Schedule

First Year

First Term

BUS-102	Introduction to Business.....	3 s.h.
ENG-102	Composition & Speech I.....	4 s.h.
MGT-220	Introduction to Sport Management	3 s.h.
	Elective(s)	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		16 s.h.

Second Term

BCA-215	Computer Business Applications	3 s.h.
	OR BCA-101 Introduction to Computers and Information Systems (3 s.h.)	
ENG-103	Composition & Speech II	4 s.h.
MGT-221	Current Issues in Sport	3 s.h.
	Natural Science/Mathematics Elective(s)	3 s.h.
	Elective(s)	3 s.h.
		16 s.h.

Second Year

Third Term

ACC-111	Introduction to Accounting.....	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
BUS-107	Business Careers.....	1 s.h.
BUS-161	Human Relations	3 s.h.
BUS-225	Business Internships	2 s.h.
	OR Business Elective(s) (3 s.h.)	
MKT-110	Principles of Marketing.....	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		15 s.h.

Fourth Term

BUS-185	Business Law I.....	3 s.h.
BUS-225	Business Internships	3 s.h.
MGT-101	Principles of Management	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
	Elective(s)	3 s.h.
		15 s.h.

Total Program Hours **62 s.h.**

* Internship in Sport Management may be repeated for up to six credits.

Elective Business Courses:

BCA-152	Electronic Spreadsheets	3 s.h.
BUS-121	Business Communications.....	3 s.h.
MGT-130	Principles of Supervision.....	3 s.h.
MKT-110	Principles of Marketing.....	3 s.h.
MKT-150	Principles of Advertising.....	3 s.h.

For additional Business electives, see pages 128-129.

Recommended Physical Education Courses:

PEA-146	Physical Fitness I.....	1 s.h.
PEA-147	Physical Fitness I Lab.....	1 s.h.
PEC-110	Coaching Ethics, Techniques, and Theory.....	1 s.h.
PEC-115	Athletic Development and Human Growth.....	1 s.h.
PEC-122	Introduction to Anatomy and Physiology for Coaching ..	1 s.h.
PEC-127	Care & Prevention of Athletic Injuries	2 s.h.
PEC-166	Sports Officiating: Fall and Winter Sports.....	2 s.h.
PEC-168	Sports Officiating: Spring and Summer Sports.....	2 s.h.

Supervision and Management

Diploma Program

The Supervision and Management Diploma Program is designed to meet the needs of students who want a foundation in developing skills in the areas of supervising people and the overall management of a business enterprise.

Successful completion of the program will assist students in developing an awareness and understanding to organize, coordinate, and evaluate the functions of a unit, department, or branch of an organization either in an industrial management or administrative capacity.

All the courses taken in the diploma program apply to the Supervision and Management Career Option Program.

Upon satisfactory completion of the prescribed curriculum with an average grade point of 2.00 (C), the student is awarded a diploma. This recognition is granted to a person who has completed at least thirty (30) semester hours of credit including a general education core.

Career Option

NIACC's Supervision and Management Program is designed to prepare graduates with interests in the areas of supervising people and being part of the overall management of a business enterprise.

The intent of this program is to develop abilities to organize, coordinate, and evaluate the functions of a unit, department, or branch of an organization either in an industrial management or administrative management capacity.

Upon completion of the prescribed curriculum with an average grade point of 2.00 (C), the student is awarded an Associate in Science (Business/Supervision and Management) Degree.

Business Internships

It's as easy as 1, 2, 3!

1. Talk to the Business Internship Coordinator or your Counselor to decide when in your college career you should participate in an internship.
2. Enroll in and pass Business Careers (BUS-107).
 - Business Careers is a 1 s.h., 5-week, pass/no pass course that is a prerequisite to Business Internships ~ it can be taken at any time prior to a Business Internship.
3. Upon passing Business Careers, the student is eligible for a Business Internship (BUS-225).
 - Students may register for a Business Internship only when they have located, secured and have had the internship site approved with the Business Internship Coordinator.
 - Business Internship credit ranges from 1 s.h. to 5 s.h. ~ this must be determined prior to registering for the course.

All students are highly encouraged to participate in a Business Internship before graduating.

Required Courses/Suggested Schedule

Diploma Program

First Year

First Term

ACC-111	Introduction to Accounting.....	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
BUS-185	Business Law I.....	3 s.h.
ECN-120	Principles of Macroeconomics	3 s.h.
ENG-102	Composition & Speech I	4 s.h.
MGT-130	Principles of Supervision.....	3 s.h.
		16 s.h.

Second Term

BCA-101	Introduction to Computers and Information Systems...	3 s.h.
BUS-161	Human Relations	3 s.h.
MGT-101	Principles of Management	3 s.h.
MGT-170	Human Resource Management	3 s.h.
	Elective(s)	3 s.h.
		15 s.h.

Total Program Hours **31 s.h.**

Career Option

Students in the Supervision and Management Career Option Program supplement the diploma program with the following additional courses:

Second Year

Third Term

MAT-110	Math for Liberal Arts.....	3 s.h.
MKT-110	Principles of Marketing.....	3 s.h.
	Humanities/Social Science Elective.....	3 s.h.
	General Elective(s)	4 s.h.
		13 s.h.

Fourth Term

ACC-122	Principles of Accounting II.....	3 s.h.
BUS-186	Business Law II	3 s.h.
ECN-130	Principles of Microeconomics	3 s.h.
ENG-103	Composition & Speech II	4 s.h.
	General Elective(s)	3 s.h.
		16 s.h.

Total Program Hours **60 s.h.**

Recommended Electives:

BCA-152	Electronic Spreadsheets	3 s.h.
BUS-107	Business Careers.....	1 s.h.
BUS-134	The Successful Entrepreneur	2 s.h.
BUS-136	Creativity, Innovation, and Opportunity Analysis.....	2 s.h.
BUS-142	Planning the Entrepreneurial Venture	3 s.h.
BUS-225	Business Internships.....	1-5 s.h.
BUS-298	Seminar in Entrepreneurship	3 s.h.

For additional Business electives, see pages 128-129.

Career Opportunities

- Supervisor
- Supervisor Trainee
- Lead Person
- Manager
- Manager Trainee

Administrative Office Specialist - Degree



The Administrative Office Specialist - Degree Program is designed to prepare students for employment with financial institutions, retail establishments, manufacturers, private organizations, and Civil Service.

The graduate's duties include transcribing dictation; keyboarding correspondence, reports, and records; filing; handling telephone services; making appointments and receiving visitors; ordering supplies; making travel arrangements; taking care of general office administration; and using computers for word processing, spreadsheet, electronic presentation, and database projects.

NIACC's classrooms are equipped with the latest in computers, office machines, and equipment. They are also staffed by qualified instructors in the business field.

Upon satisfactory completion of the prescribed curriculum (at least 60 semester hours) with an average grade point of 2.00 (C), the student is awarded an Associate in Science (Business/Administrative Office Specialist) Degree.

Business Internships

It's as easy as 1, 2, 3!

1. Talk to the Business Internship Coordinator or your Counselor to decide when in your college career you should participate in an internship.
2. Enroll in and pass Business Careers (BUS-107).
 - Business Careers is a 1 s.h., 5-week, pass/no pass course that is a prerequisite to Business Internships ~ it can be taken at any time prior to a Business Internship.
3. Upon passing Business Careers, the student is eligible for a Business Internship (BUS-225).
 - Students may register for a Business Internship only when they have located, secured and have had the internship site approved with the Business Internship Coordinator.
 - Business Internship credit ranges from 1 s.h. to 5 s.h. ~ this must be determined prior to registering for the course.

All students are highly encouraged to participate in a Business Internship before graduating.

Career Opportunities

Successful graduates can find job opportunities in the following occupational areas:

- Administrative Assistant
- Executive Secretary
- Receptionist
- Office Manager
- Records Manager
- Information Processing Supervisor

For specific information contact the North Iowa Career Center or the NIACC Business Division.

Required Courses/Suggested Schedule

First Year

First Term

ACC-111	Introduction to Accounting.....	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
ADM-123*	Document Formatting	3 s.h.
ADM-131	Office Calculators.....	1 s.h.
ENG-102	Composition & Speech I	4 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		14 s.h.

* Prerequisite: ADM-105, ADM-108 OR ability to pass keyboarding test at 30 wpm with 3 errors or less

Second Term

BCA-129	Basic Word Processing.....	2 s.h.
ENG-103	Composition & Speech II	4 s.h.
	Business Electives	10 s.h.
		16 s.h.

Second Year

Third Term

BCA-215	Computer Business Applications	3 s.h.
	OR BCA-101 Introduction to Computers and Information Systems (3 s.h.)	
BUS-121	Business Communications.....	3 s.h.
	Humanities Elective(s).....	3 s.h.
	Social Science Elective(s).....	3 s.h.
	Business Elective(s).....	4 s.h.
		16 s.h.

Fourth Term

ADM-162***	Office Procedures	4 s.h.
BCA-136*	Advanced Word Processing.....	3 s.h.
BCA-152**	Electronic Spreadsheets	3 s.h.
BUS-107	Business Careers.....	1 s.h.
	Natural Science/Mathematics Elective(s)	3 s.h.
		14 s.h.

* Prerequisites: BCA-129 and BCA-215 or BCA-101

** Prerequisites: BCA-215 or BCA-101

*** Prerequisites: BCA-129 and BUS-121

Total Program Hours

60 s.h.

Recommended Electives:

BCA-163	Microsoft Access	1 s.h.
BCA-170	Personal Information Management.....	2 s.h.
BCA-174	Basic Presentation Software.....	1 s.h.
BCA-185	Beginning Web Page Development	3 s.h.
BUS-102	Introduction to Business.....	3 s.h.
BUS-161	Human Relations	3 s.h.
BUS-225	Business Internships.....	1-5 s.h.
MGT-101	Principles of Management	3 s.h.
MKT-110	Principles of Marketing.....	3 s.h.
NET-112	Technology Essentials	3 s.h.

NOTE: *Business Internships (BUS-225) is a strongly recommended Business elective. For more information, please contact Diane Frank at 1-888-GO-NIACC, ext. 4252.*

For additional Business electives, see pages 128-129.

Legal Office Specialist - Degree



The Legal Office Specialist - Degree Program is designed to prepare students for employment in law offices, insurance companies, financial institutions, courts and police departments, as well as in legal departments of business firms and government offices.

The graduate's duties include transcribing dictation; preparing letters, memos, court and client documents; filing; handling telephone services; making appointments and receiving clients; ordering supplies, making travel arrangements; taking care of general office administration; and using a computer for word processing, spreadsheet, electronic presentation, and database projects.

NIACC's classrooms are equipped with the latest in computers, office machines, and equipment. They are also staffed by qualified instructors in the business and legal fields.

Upon satisfactory completion of the prescribed curriculum (at least 60 semester hours) with an average grade point of 2.00 (C), the student is awarded an Associate in Science (Business/Legal Office Specialist) Degree.

Business Internships

It's as easy as 1, 2, 3!

1. Talk to the Business Internship Coordinator or your Counselor to decide when in your college career you should participate in an internship.
2. Enroll in and pass Business Careers (BUS-107).
 - Business Careers is a 1 s.h., 5-week, pass/no pass course that is a prerequisite to Business Internships ~ it can be taken at any time prior to a Business Internship.
3. Upon passing Business Careers, the student is eligible for a Business Internship (BUS-225).
 - Students may register for a Business Internship only when they have located, secured and have had the internship site approved with the Business Internship Coordinator.
 - Business Internship credit ranges from 1 s.h. to 5 s.h. ~ this must be determined prior to registering for the course.

All students are highly encouraged to participate in a Business Internship before graduating.

Career Opportunities

Successful graduates can find opportunities in the following occupational areas:

- Legal Office Assistant
- Legal Secretary
- Legal Transcriber
- Legal Information Processing
- Receptionist
- Legal Records Manager
- Appointment Clerk

For specific information contact the North Iowa Career Center or the NIACC Business Division.

Required Courses/Suggested Schedule

First Year

First Term

ACC-111	Introduction to Accounting.....	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
ADM-123*	Document Formatting	3 s.h.
ADM-131	Office Calculators	1 s.h.
ENG-102	Composition & Speech I	4 s.h.
POL-111	American National Government.....	3 s.h.
		14 s.h.

* Prerequisite: ADM-105, ADM-108 OR ability to pass keyboarding test at 30 wpm with 3 errors or less

Second Term

BCA-129	Basic Word Processing	2 s.h.
ENG-103	Composition & Speech II	4 s.h.
	Humanities/Social Science Elective(s).....	6 s.h.
	Business Elective(s).....	3 s.h.
		15 s.h.

Second Year

Third Term

BCA-215	Computer Business Applications	3 s.h.
	OR BCA-101 Introduction to Computers and Information Systems (3 s.h.)	
BUS-121	Business Communications.....	3 s.h.
BUS-185	Business Law I.....	3 s.h.
	Natural Science/Mathematics Elective(s)	3 s.h.
	Business Elective(s).....	3 s.h.
		15 s.h.

Fourth Term

ADM-205*	Legal Office Procedures	5 s.h.
BCA-136**	Advanced Word Processing.....	3 s.h.
BCA-152***	Electronic Spreadsheets	3 s.h.
BUS-107	Business Careers.....	1 s.h.
	Business Elective(s).....	4 s.h.
		16 s.h.

* Prerequisites: BCA-129 and BUS-121

** Prerequisites: BCA-129 and BCA-215 OR BCA-101

*** Prerequisites: BCA-215 or BCA-101

Total Program Hours

60 s.h.

Recommended Electives:

BCA-163	Microsoft Access	1 s.h.
BCA-170	Personal Information Management.....	2 s.h.
BCA-174	Basic Presentation Software.....	1 s.h.
BCA-185	Beginning Web Page Development.....	3 s.h.
BUS-102	Introduction to Business.....	3 s.h.
BUS-161	Human Relations	3 s.h.
BUS-186	Business Law II.....	3 s.h.
BUS-225	Business Internships.....	1-5 s.h.
MGT-101	Principles of Management	3 s.h.
NET-112	Technology Essentials	3 s.h.

NOTE: *Business Internships (BUS-225) is a strongly recommended Business elective. For more information, please contact Diane Frank at 1-888-GO-NIACC, ext. 4252.*

For additional Business electives, see pages 128-129.

Medical Office Specialist - Degree

The Medical Office Specialist - Degree Program is designed to prepare students for employment in physicians' offices, hospitals, clinics, public health departments, Civil Service, medical laboratories, pharmaceutical houses, insurance companies, business and industrial firms with large medical departments, and foundations devoted to medical research.

The graduate's duties include transcribing dictation, preparing correspondence and medical records, filing, mailing, ordering supplies, handling telephone services, making appointments and receiving visitors, taking care of general office administration, and using a computer for word processing, spreadsheet, electronic presentation, and database projects.

NIACC's classrooms are equipped with the latest in computers, office machines, and equipment. They are also staffed by qualified instructors in the business and medical fields.

Upon satisfactory completion of the prescribed curriculum (at least 60 semester hours) with an average grade point of 2.00 (C), the student is awarded an Associate in Science (Business/Medical Office Specialist) Degree.



Career Opportunities

Successful graduates can find job opportunities in the following occupational areas:

- Medical Office Assistant
- Medical Secretary
- Medical Records Manager
- Medical Information Processing Operator
- Receptionist
- Appointment Clerk

For specific information contact the North Iowa Career Center or the NIACC Business Division.

Required Courses/Suggested Schedule

First Year

First Term

ACC-111	Introduction to Accounting.....	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
ADM-123*	Document Formatting	3 s.h.
ADM-131	Office Calculators.....	1 s.h.
ENG-102	Composition & Speech I	4 s.h.
HSC-150	Body Structure & Function.....	4 s.h.
	OR BIO-157 Human Biology (4 s.h.)	
		15 s.h.

* Prerequisite: ADM-105, ADM-108 OR ability to pass keyboarding test at 30 wpm with 3 errors or less

Second Term

BCA-129	Basic Word Processing	2 s.h.
BCA-215	Computer Business Applications	3 s.h.
	OR BCA-101 Introduction to Computers and Information Systems (3 s.h.)	
BIO-102	Introductory Biology	3 s.h.
BIO-103	Introductory Biology Lab	1 s.h.
ENG-103	Composition & Speech II	4 s.h.
	Social Science or Humanities Elective(s)	3 s.h.
		16 s.h.

Second Year

Third Term

BCA-152*	Electronic Spreadsheets	3 s.h.
BUS-121	Business Communications.....	3 s.h.
HSC-120	Medical Terminology I	3 s.h.
	Social Science or Humanities Elective(s)	6 s.h.
		15 s.h.

* Prerequisite BCA-215 or BCA-101

Fourth Term

ADM-215***	Medical Office Procedures	3 s.h.
BCA-136*	Advanced Word Processing.....	3 s.h.
BUS-107	Business Careers.....	1 s.h.
HSC-121	Medical Terminology II	3 s.h.
HSC-144	Basic Pharmacology	2 s.h.
HIT-210**	Basic Medical Insurance & Coding	2 s.h.
		14 s.h.

* Prerequisites: BCA-215 or BCA-101 and BCA-129

** Prerequisites: HSC-150 or permission from instructor and HSC-120

*** Prerequisites: BCA-129 and BUS-121

Total Program Hours 60 s.h.

Administrative Office Associate - Diploma

The Administrative Office Associate - Diploma Program is designed to prepare students for employment with financial institutions, retail establishments, manufacturers, private organizations, and Civil Service.

The graduate's duties include keyboarding, filing, record keeping, operating office machines, transcribing, using a computer for word processing, spreadsheet, electronic presentation, and database projects, handling telephone services, and taking care of general office administration.

NIACC's classrooms are equipped with the latest in computers, office machines, and equipment. They are also staffed by qualified instructors in the business field.

Upon satisfactory completion of the prescribed curriculum (at least 30 semester hours) with an average grade point of 2.00 (C), the student is awarded a diploma.



Required Courses/Suggested Schedule

First Year

First Term

ACC-111	Introduction to Accounting.....	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
ADM-123*	Document Formatting	3 s.h.
ADM-131	Office Calculators.....	1 s.h.
BCA-129	Basic Word Processing.....	2 s.h.
BCA-215	Computer Business Applications	3 s.h.
	OR BCA-101 Introduction to Computers and Information Systems (3 s.h.)	
BUS-121	Business Communications.....	3 s.h.
		15 s.h.

* Prerequisite: ADM-105, ADM-108 OR ability to pass keyboarding test at 30 wpm with 3 errors or less

Second Term

ADM-162**	Office Procedures	4 s.h.
BCA-152*	Electronic Spreadsheets	3 s.h.
BUS-107	Business Careers.....	1 s.h.
	Business Electives	7 s.h.
		15 s.h.

* Prerequisite: BCA-215 or BCA-101

** Prerequisite: BCA-129 and BUS-121

Total Program Hours

30 s.h.

Recommended Electives:

BCA-136	Advanced Word Processing.....	3 s.h.
BCA-163	Microsoft Access	1 s.h.
BCA-170	Personal Information Management.....	2 s.h.
BCA-174	Basic Presentation Software.....	1 s.h.
BCA-185	Beginning Web Page Development.....	3 s.h.
BUS-102	Introduction to Business.....	3 s.h.
BUS-161	Human Relations	3 s.h.
BUS-225	Business Internships.....	1-5 s.h.
NET-112	Technology Essentials	3 s.h.

NOTE: *Business Internships (BUS-225)* is a **strongly recommended Business elective**. For more information, please contact Diane Frank at 1-888-GO-NIACC, ext. 4252.

For additional Business electives, see pages 128-129.

Business Internships

It's as easy as 1, 2, 3!

1. Talk to the Business Internship Coordinator or your Counselor to decide when in your college career you should participate in an internship.
2. Enroll in and pass Business Careers (BUS-107).
 - Business Careers is a 1 s.h., 5-week, pass/no pass course that is a prerequisite to Business Internships ~ it can be taken at any time prior to a Business Internship.
3. Upon passing Business Careers, the student is eligible for a Business Internship (BUS-225).
 - Students may register for a Business Internship only when they have located, secured and have had the internship site approved with the Business Internship Coordinator.
 - Business Internship credit ranges from 1 s.h. to 5 s.h. ~ this must be determined prior to registering for the course.

All students are highly encouraged to participate in a Business Internship before graduating.

Career Opportunities

Successful graduates can find job opportunities in the following occupational areas:

- Administrative Assistant
- Secretary
- Records Manager
- Receptionist
- Machine Transcriber
- Information Processing Operator

Legal Office Associate - Diploma



The Legal Office Associate - Diploma Program is designed to prepare students for employment with law offices, insurance companies, financial institutions, courts and police departments, as well as in legal departments of business firms and government offices.

The graduate's duties include transcribing dictation; preparing letters, memos, court and client documents; filing; handling telephone services; making appointments and receiving clients; ordering supplies; making travel arrangements; taking care of general office administration; and using a computer for word processing, spreadsheet, electronic presentation, and database projects.

NIACC's classrooms are equipped with the latest in computers, office machines, and equipment. They are also staffed by qualified instructors in the business and legal fields.

Upon satisfactory completion of the prescribed curriculum (at least 30 semester hours) with an average grade point of 2.00 (C), the student is awarded a diploma.

Business Internships

It's as easy as 1, 2, 3!

1. Talk to the Business Internship Coordinator or your Counselor to decide when in your college career you should participate in an internship.
2. Enroll in and pass Business Careers (BUS-107).
 - Business Careers is a 1 s.h., 5-week, pass/no pass course that is a prerequisite to Business Internships ~ it can be taken at any time prior to a Business Internship.
3. Upon passing Business Careers, the student is eligible for a Business Internship (BUS-225).
 - Students may register for a Business Internship only when they have located, secured and have had the internship site approved with the Business Internship Coordinator.
 - Business Internship credit ranges from 1 s.h. to 5 s.h. ~ this must be determined prior to registering for the course.

All students are highly encouraged to participate in a Business Internship before graduating.

Required Courses/Suggested Schedule

First Year

First Term

ACC-111	Introduction to Accounting.....	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
ADM-123*	Document Formatting	3 s.h.
ADM-131	Electronic Calculators	1 s.h.
BCA-129	Basic Word Processing.....	2 s.h.
BCA-215	Computer Business Applications	3 s.h.
	OR BCA-101 Introduction to Computers and Information Systems (3 s.h.)	
BUS-121	Business Communications.....	3 s.h.
		15 s.h.

* Prerequisite: ADM-105, ADM-108 OR ability to pass keyboarding test at 30 wpm with 3 errors or less

Second Term

ADM-205*	Legal Office Procedures	5 s.h.
BUS-107	Business Careers.....	1 s.h.
BUS-185	Business Law I.....	3 s.h.
	Business Electives	6 s.h.
		15 s.h.

* Prerequisites: BCA-129 and BUS-121

Total Program Hours

30 s.h.

Recommended Electives:

BCA-136	Advanced Word Processing.....	3 s.h.
BCA-152	Electronic Spreadsheets	3 s.h.
BCA-163	Microsoft Access	1 s.h.
BCA-170	Personal Information Management.....	2 s.h.
BCA-174	Basic Presentation Software	1 s.h.
BCA-185	Beginning Web Page Development	3 s.h.
BUS-102	Introduction to Business.....	3 s.h.
BUS-161	Human Relations	3 s.h.
BUS-225	Business Internships.....	1-5 s.h.
NET-112	Technology Essentials	3 s.h.

NOTE: *Business Internships (BUS-225) is a strongly recommended Business elective. For more information, please contact Diane Frank at 1-888-GO-NIACC, ext. 4252.*

For additional Business electives, see pages 128-129.

Career Opportunities

Successful graduates can find job opportunities in the following occupational areas:

- Legal Office Assistant
- Legal Secretary
- Legal Transcriber
- Legal Records Manager
- Legal Information Processing Operator
- Receptionist
- Appointment Clerk

For specific information contact the North Iowa Career Center or the NIACC Business Division.

Medical Office Associate - Diploma

The Medical Office Associate - Diploma Program is designed to prepare students for employment in physicians' offices, hospitals, clinics, public health departments, Civil Service, medical laboratories, pharmaceutical houses, insurance companies, business and industrial firms with large medical departments, and foundations devoted to medical research.

The graduate's duties include transcription, preparing correspondence and medical records, filing, mailing, ordering supplies, handling telephone services, making appointments and receiving visitors, taking care of general office administration, and using a computer for word processing, spreadsheet, electronic presentation, and database projects.

NIACC's classrooms are equipped with the latest in computers, office machines, and equipment. They are also staffed by qualified instructors in the business and medical fields.

Upon satisfactory completion of the prescribed curriculum (at least 30 semester hours) with an average grade point of 2.00 (C), the student is awarded a diploma.

Career Opportunities

Successful graduates can find job opportunities in the following occupational areas:

- Medical Office Assistant
- Medical Secretary
- Medical Records Manager
- Medical Information Processing Operator
- Receptionist
- Appointment Clerk

For specific information contact the North Iowa Career Center or the NIACC Business Division.



Required Courses/Suggested Schedule

First Year

First Term

ADM-123*	Document Formatting	3 s.h.
BCA-129	Basic Word Processing	2 s.h.
BUS-121	Business Communications.....	3 s.h.
HSC-120	Medical Terminology I	3 s.h.
HSC-150	Body Structure & Function.....	4 s.h.
	OR BIO-157 Human Biology (4 s.h.)	
		15 s.h.

* Prerequisite: ADM-105, ADM-108 OR ability to pass keyboarding test at 30 wpm with 3 errors or less

Second Term

ACC-111	Introduction to Accounting.....	3 s.h.
	OR ACC-121 Principles of Accounting I (3 s.h.)	
ADM-131	Office Calculators.....	1 s.h.
ADM-215**	Medical Office Procedures.....	3 s.h.
BUS-107	Business Careers.....	1 s.h.
HIT-210*	Basic Medical Insurance and Coding	2 s.h.
HSC-121	Medical Terminology II	3 s.h.
HSC-144	Basic Pharmacology	2 s.h.
		15 s.h.

* Prerequisites: HSC-150 and HSC-120

** Prerequisites: BCA-129 and BUS-121

Total Program Hours

30 s.h.

Medical Transcription - Diploma

The Medical Transcription - Diploma Program is designed to prepare students for employment transcribing in physicians' offices, hospitals, clinics, public health departments, Civil Service, medical laboratories, pharmaceutical houses, insurance companies, business and industrial firms with large medical departments, and foundations devoted to medical research.

NIACC's classrooms are equipped with the latest in computers, office machines, and equipment. They are also staffed by qualified instructors in the business and medical fields.

Upon satisfactory completion of the prescribed curriculum (at least 30 semester hours) with an average grade point of 2.00 (C), the student is awarded a diploma.

Required Courses/Suggested Schedule

First Year

First Term

BCA-129	Basic Word Processing	2 s.h.
BUS-121	Business Communications	3 s.h.
HIT-630	Medical Transcription I	3 s.h.
HSC-120	Medical Terminology I	3 s.h.
HSC-150	Body Structure & Function	4 s.h.
	OR BIO-157 Human Biology (4 s.h.)	
		15 s.h.

Second Term

HSC-121	Medical Terminology II	3 s.h.
HSC-144	Basic Pharmacology	2 s.h.
HSC-155	Laboratory Tests	2 s.h.
HIT-631*	Medical Transcription II	3 s.h.
HIT-632*	Medical Transcription III	3 s.h.
	Elective(s) (Strongly recommend BIO-157	
	Human Biology or BIO-206 Anatomy & Physiology I).....	2 s.h.
		15 s.h.

* Prerequisite: HIT-630

Total Program Hours **30 s.h.**

Career Opportunities

Successful graduates can find job opportunities in the following area:

- Medical Transcriptionist

For more specific information contact the North Iowa Career Center or the NIACC Business Division.



Software Applications Specialist - Certificate

The Software Applications Specialist - Certificate is designed to expose students to Microsoft software and prepare students to take the Microsoft Office Specialist examination.

These courses are business electives and may apply to diplomas or degrees. Many of these courses are offered on an arranged basis or online.

Upon satisfactory completion of the prescribed curriculum (at least 15 semester hours) with an average grade point of 2.00 (C), the student is awarded a certificate.

Required Courses/Suggested Schedule

BCA-129	Basic Word Processing	2 s.h.
BCA-136*	Advanced Word Processing.....	3 s.h.
BCA-152**	Electronic Spreadsheets	3 s.h.
BCA-163	Microsoft Access	1 s.h.
BCA-170	Personal Information Management.....	2 s.h.
BCA-174	Basic Presentation Software.....	1 s.h.
BCA-215	Computer Business Applications	3 s.h.

* Prerequisites: BCA-129, BCA-215 or BCA-101

** Prerequisites: BCA-215 or BCA-101

Total Program Hours **15 s.h.**

Note: Courses from the Software Applications Specialist - Certificate curriculum and the Desktop Systems curriculum are related. The Desktop Systems Specialization is presented in the Information Technology Program cluster.

Career Opportunities

Successful graduates can find job opportunities in the following area:

- Software Specialist
- Help Desk Support

For more specific information contact the North Iowa Career Center or the NIACC Business Division.

Health Division

Transfer Degree

Career Programs

Medical Assistant

**Physical Therapist
Assistant**

Health Program Clusters

Nursing

- Nursing Associate Degree
- Practical Nursing Diploma
- ADN Option for LPNs
- BSN Partnership

Health Related Options

- Medical Laboratory Technician
- Administrative Medical Secretary
- Medical Secretary
- Medical Transcriptionist

HEALTH

Donna Orton, Division Chair
 (641) 422-4216
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NURSING

Nursing Associate Degree

Practical Nursing Diploma

MEDICAL ASSISTANT

PHYSICAL THERAPIST ASSISTANT

HEALTH RELATED OPTIONS

Medical Laboratory Technician Degree

Medical Office Specialist (see page 56)

Medical Office Associate (see page 59)

Medical Transcriptionist (see page 60)



HEALTH DIVISION

Health Care programs offer a wide variety of employment opportunities. Health care curriculums, although independent in structure, often provide for educational mobility through common course requirements. Students entering the Medical Assistant Program may note similar course work in the Medical Office Specialist, Medical Office Associate, or Medical Transcription Programs. Common support courses can also be noted between the Practical Nursing Program and the Medical Assistant Program, allowing students the ability to apply course work in multiple areas. Career mobility is also facilitated in the LPN to ADN option for licensed practical nurses who desire to pursue the registered nurse licensure. In addition, the Associate Degree nurse is also provided educational mobility options through the University of Iowa's RN to BSN progression program provided on the NIACC campus. Although the Physical Therapist Assistant Program and the Medical Laboratory Technician Program provide specialized curriculums that will not allow for direct transfer into advanced degree programs, the program course work provides foundational knowledge and skills compatible with the pursuit of related degrees.

Students interested in pursuing careers in the health field should schedule an appointment with the Division Chairperson or the Health Professions Counselor to discuss course and career transferability options.

Medical Assistant

The Medical Assistant Program is designed to prepare men and women to function as members of the health care delivery team and perform administrative and clinical procedures. This most often occurs in ambulatory settings such as medical offices and clinics.

NIACC's classrooms include the latest in computers, office, and laboratory equipment. The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) on recommendation of the Committee of Accreditation for Medical Assistant Education.

Entrance Requirements

Students are encouraged to meet with the counselor prior to program enrollment to arrange for assessment in keyboarding, reading, writing, and math to determine if additional course work is required to promote success. A physical examination providing evidence of current immunization and sound physical and mental health is also required prior to Clinical Procedures I. Criminal background checks and adult/dependent abuse checks will be required. Drug testing may also be required by individual agencies. Results of these checks will be used by contracted clinical facilities to determine clinical eligibility. Costs for requirements will be the responsibility of the student.

Students must attain a grade point average of 2.00 (C) in program courses to proceed to the practicum. (A minimum grade of C- is allowed in Medical Office Procedures, Clinical Procedures I and II, Body Structure and Function (or Anatomy and Physiology I and II), and a minimum grade of C is required in Medical Terminology.) In addition, students must meet all course requirements prior to beginning the practicum. The student may be required to travel a distance for the externship. Externships are randomly assigned to the student and available sites are dependent on the permission of the specific agency. No remuneration is provided during the externship experience.

Further information regarding progression in the program and specific program policies is provided to the MA student in the individual program handbook. Students are provided this handbook during the first MA class day. Students are referred to this handbook throughout the program.

Career Opportunities

Medical Assistant is one of the nation's fastest growing careers through 2010, according to the United States Bureau of Labor Statistics. This can be attributed to a predicted surge in the number of physicians' offices and outpatient care facilities. Technological advancements and the growing number of elderly Americans who need medical treatment are also factors for the increased demand for medical assistants.

Administrative duties include scheduling and receiving patients, preparing and maintaining medical records, performing basic secretarial skills and medical transcription, handling telephone calls, writing correspondence, serving as liaison between the physician and other individuals, and managing practice finances.

Clinical duties include asepsis and infection control, taking patient histories and vital signs, performing first aid and CPR, preparing patients for procedures, assisting the physician with examinations and treatments, collecting and processing specimens, performing selected diagnostic tests, and preparing and administering medications as directed by the physician.

Medical Assistants work in offices for:

- Doctors
- Hospitals and clinics
- Nursing homes

Medical Assistants work with:

- Medical equipment such as x-ray and EKG machines
- Lab samples and equipment
- Telephones, computers, and other office equipment
- Patient medical records
- Insurance forms and other papers

Upon completion of the prescribed curriculum with a 2.00 GPA and a minimum overall cumulative college grade point average of 2.00 (C), the student is awarded a diploma from NIACC. In addition, the student is eligible for the national certification examination to become a CMA (Certified Medical Assistant).

Beginning with the January 2001 administration of the Certification Examination, a student with a felony record may not be eligible for Certification Examination unless the CB (Curriculum Board) grants a waiver based on one or more of the mitigating circumstances listed in the Disciplinary Standards. The student can verify certification eligibility prior to entering the program by contacting the CB at the following address: AAMA (American Association of Medical Assistants), 20 North Wacker Drive, Ste. 1575, Chicago, IL 60606-2903.

A night class sequencing is also available for this program if numbers are sufficient. If the program is being extended beyond a one-year period, Clinical Procedures I and II are required to be taken during the final year of the course of study.



Required Courses/Suggested Schedule

First Term

BCA-129	Basic Word Processing.....	2 s.h.
BUS-121	Business Communications.....	3 s.h.
HSC-120	Medical Terminology I.....	3 s.h.
HSC-150	Body Structure and Function	4 s.h.
	OR Anatomy and Physiology I and II	
MAP-353	Clinical Procedures I.....	4 s.h.
		16 s.h.

Second Term

ACC-111	Introduction to Accounting.....	3 s.h.
ADM-131	Office Calculators.....	1 s.h.
ADM-215*	Medical Office Procedures	3 s.h.
BUS-161	Human Relations	3 s.h.
HIT-210	Basic Medical Insurance and Coding	2 s.h.
MAP-358	Clinical Procedures II.....	5 s.h.
SDV-135	Job Seeking Skills.....	1 s.h.
		18 s.h.

*Prerequisites: BCA-129, Basic Word Processing, and BUS-121, Business Communications

Summer Term

MAP-616	Medical Assistant Externship	6 s.h.
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Total Program Hours 40 s.h.

Courses may be taken over a two-year period with Clinical Procedures I and II taken in the final year. Students may re-enter Clinical Procedures I and II a maximum of one time. Students may repeat the Externship one time only.

Medical Laboratory Technician (Cooperative Program with Hawkeye Community College)

The Medical Laboratory Technician Program prepares men and women to work under the supervision of the medical technologist, pathologist, or other qualified physician in a medical laboratory. A technician performs tests that aid in the diagnosis and treatment of disease.

Specific tasks which the Medical Laboratory Technician might perform include collection of blood and other specimens, preparation and examination of stained slides of blood cells or bacteria, microscopic examination of urine, blood, and other body fluids, grouping and typing of blood, and the analysis of body fluids for chemical components.

The first two semesters of the program may be taken at NIACC and the completion of the program is taken at Hawkeye Community College, Waterloo, Iowa. The final semester of the program is provided in the clinical setting, which may occur in a location of the student's choice. This placement, however, is dependent on a space available basis in the agency of choice. Upon completion of the prescribed curriculum, the student is awarded an Associate in Applied Science Degree by Hawkeye Community College and is then prepared to work in hospital laboratories, clinics, physicians' offices, public health agencies, research institutions, and the Armed Forces. The program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences.

Graduates of the Medical Laboratory Technician Program are eligible for the national certification examination.

Medical Laboratory Technicians may continue their education at the college level and become Medical Technologists.

Entrance Requirements

Students must make formal application for the Medical Laboratory Technician (MLT) Program to Hawkeye Community College. Students may prepare for the program and complete two semesters of the MLT Program while attending NIACC.

Applicants must be high school graduates or the equivalent to be eligible for admission to the MLT Program. Applicants must then satisfy at least one of the following routes of requirements for entry into the program.

Route 1: Score at least the following standard score on each COMPASS assessment (43 on Algebra, 82 on Reading, and 65 on Writing) or receive a standard score of 19 on each of the ACT subtests of Math, Reading, and English. Students must also have completed one year of high school algebra, chemistry, and biology.

Route 2: Successfully complete the following NIACC courses with a 2.00 GPA.

BIO-102 Introductory Biology AND
BIO-103 Introductory Biological Lab
ENG-015 Elements of Writing
MAT-063 Elementary Algebra
RDG-125 College Reading Strategies

Route 3: Successfully complete 4 out of the following 6 courses at HCC or NIACC with a minimum grade point average of 2.75.

MLT-101 (NIACC) Intro to Lab Science
MAT-110 (NIACC) Math for Liberal Arts
HSC-120 (NIACC) Medical Terminology I
MLT-120 (NIACC) Urinalysis
MT150U (HCC) Fundamental Lab Techniques
MT154U (HCC) Hematology I

Career Opportunities

Medical Laboratory Technicians work for:

- Hospitals and medical laboratories
- Offices and clinics of physicians
- Blood banks
- Health maintenance organizations
- Public health agencies
- Pharmaceutical firms
- Research and testing laboratories
- The Federal Government

The required related courses may be taken prior to enrolling or during the time the student is enrolled in the program. However, it is recommended that the curriculum be followed once the student is enrolled.

Students who withdraw from the program will be readmitted on a space-available basis. Preference will be given to those students who have been academically successful.

Required Courses/Suggested Schedule

First Year

First Term - NIACC

BIO-206	Anatomy and Physiology I	4 s.h.
CHM-122	Introduction to General Chemistry	4 s.h.
ENG-102	Composition & Speech I	3 s.h.
MLT-101**	Intro to Lab Science	2 s.h.
SOC-110	Introduction to Sociology	3 s.h.
	OR PSY-111 Introduction to Psychology (3 s.h.)	
		16 s.h.

Second Term - NIACC

BIO-186	Microbiology	4 s.h.
BIO-207	Anatomy and Physiology II	4 s.h.
HSC-120	Medical Terminology	3 s.h.
MLT-120**	Urinalysis I	3 s.h.
SPC-111	Public Speaking	2 s.h.
		16 s.h.

Summer Session - Hawkeye

150**	Fundamental Lab Techniques	3 s.h.
154	Hematology I	3 s.h.
156	Clinical Microbiology I	4 s.h.
		10 s.h.

Second Year

First Term - Hawkeye

214**	Advanced Hematology	3 s.h.
216	Immunohematology I	4 s.h.
218	Hemostasis & Thrombosis	2 s.h.
219	Clinical Chemistry I	7 s.h.
220**	Parasitology	1 s.h.
222	Immunology and Serology	2 s.h.
		19 s.h.

Second Term - Area II Clinical Sites*

(24-week term, clinical internship)

226	Immunohematology II	2 s.h.
229	Clinical Chemistry II	4 s.h.
230	Immunology and Serology II	1 s.h.
232	Lab Survey & Review	1 s.h.
234	Hematology II	4 s.h.
236	Clinical Microbiology	4 s.h.
244	Urinalysis	1 s.h.
		17 s.h.

Total Program Hours

78 s.h.

*As identified in the curriculum, this program is offered over a two-year period of time. The first two semesters are taken at NIACC. The next summer session and fall semester are taken at Hawkeye Community College in Waterloo, Iowa. The final semester is a 24-week clinical internship. NIACC and Hawkeye will attempt to secure clinical experiences in the NIACC area (not guaranteed).

**Courses may be taken prior to acceptance into the MLT Program at Hawkeye Community College.

Associate Degree Nursing

Associate Degree Nursing is designed to prepare men and women for general staff registered nursing positions which involve direct care of patients. There are two routes of entry into the program; one for beginning students and one for Licensed Practical Nurses. Individuals considering enrollment or currently enrolled in the nursing program should be aware that prior felony convictions may prohibit eligibility for licensure upon completion of the program.

Entrance Requirements

The applicant must complete the application process through the health professions counselor located in the Student Services Office. The ADN Program offers two starts: Summer Term II and Fall Semester. A ranking process will be used by the admissions committee in the review of ADN applications. Applicants will receive points for the requirements met and applicants will be ranked by the number of points earned.

All applicants must complete a high school diploma or equivalency program. The date of formal application to the program will be the date the applicant submits a complete application to the ADN Program. Final acceptance to the program will be when the applicant has been selected according to the ranking process and has successfully completed all of the prerequisites for the ADN Program. The date of application will be factored in if two or more applicants tie for the same rank. Completed applications are reviewed starting in November for the next academic year.

Applicants will be ranked by the following criteria:

1. One point will be earned for graduating in the upper half of a high school class or for achieving a GED average standard score of 530 or above.
2. One point will be earned for graduating from high school with at least a 3.00 GPA.
3. One point will be earned for an ACT composite score of 20. Students who have not taken the ACT should contact the Admissions Office or go to ACT's web site (www.ACT.org) for information about the test. Some students may have COMPASS or ASSET or SAT scores that were used for initial placement in NIACC courses; these tests will not be used for the ACT ranking points. If an ADN applicant wants to earn this point, then the applicant must take the ACT exams.
4. One point will be earned for achieving a 2.25 GPA with completion of at least 12 credit hours of the prescribed support courses in the Associate Degree Nursing curriculum. If a student has exceeded 12 credit hours from the prescribed curriculum, these courses will also be included in the calculation of the GPA.,
OR
two points will be earned for achieving a 3.00 GPA with completion of at least 12 credit hours of the prescribed support courses in the Associate Degree Nursing curriculum. If a student has exceeded 12 credit hours from the prescribed curriculum, these courses will also be included in the calculation of the GPA.

Career Opportunities

- Hospitals, nursing facilities, and clinics
- Health maintenance organizations
- Private offices and clinics of doctors and dental surgeons
- Government agencies and the military
- Visiting nurse associations
- Community Healthcare agencies
- Temporary staff agencies
- Entrepreneurial ventures

5. One point will be earned for the completion of an Associate in Arts or an Associate in Science Degree,
OR
two points will be earned for the completion of a Bachelor's Degree.

Applicants who do not meet requirements or those with a poor academic history may meet entrance requirements by successfully completing approved college courses. These options should be discussed with the health professions counselor. Applicants who do not secure a position in the class must reapply on an annual basis and will be ranked the following year with all new applicants.

Prerequisites:

The following required courses must be completed with a C grade or better.

Mathematics:

1. Two full-year courses (2 semesters each year) of math in high school (e.g., Algebra I, Algebra II, Geometry)
OR
two semesters of college equivalent math (e.g., MAT-063, Elementary Algebra; MAT-102, Intermediate Algebra)

Science:

1. Chemistry: two semesters of high school/college preparatory chemistry
OR
one semester of college chemistry (e.g., CHM-122 Intro to General Chemistry)
2. Biology: two semesters of high school/college preparatory biology
OR
one semester of a college biology course (e.g., BIO-102, Introductory Biology and lab or BIO-157, Human Biology and lab)

Computer Technology:

Since the NCLEX-RN licensing exam is a computerized test, two semesters of high school computer classes or one semester of a computer application class are also strongly recommended.

It is recommended that 4-6 semesters of high school English and 4-6 semesters of social studies be taken. An application to the ADN Program, high school transcript, GED scores (if applicable), all college transcripts, and results of the ACT must be in the applicant's folder before the admissions committee takes action on acceptance into the Associate Degree Nursing Program. Upon acceptance, a physical examination providing evidence of current immunization and sound physical and mental health is required.

The prescribed course requirements scheduled for the freshman year must be taken in the sequence and time lines indicated. However, the support courses (noted with an * in the curriculum) may be taken prior to enrolling or during the time the student is in the nursing program. Note: If support courses are being taken in the sequence with a nursing course, both the support courses and the nursing course must be successfully completed to continue in the program.

Associate Degree Nursing (Continued)

Students must attain a C grade in all nursing courses and prescribed courses. An overall 2.00 GPA in the prescribed curriculum and a minimum overall cumulative college grade point average of 2.00 is required for graduation from the ADN Program.

Students who withdraw from the program must make formal application for reentry and upon acceptance will be considered on a space-available basis. Readmission criteria is addressed in the ADN Student Handbook. A student may reenter the nursing curriculum one time. Reentry requirements include current physicals/immunization records, current CPR certification, current evidence of TB testing within the academic year. Options will be discussed on an individual basis for students unsuccessful at any level of the program.

Upon satisfactory completion of the prescribed curriculum, the student is awarded an Associate in Applied Science Degree and is eligible for the NCLEX-RN exam. After passing this examination, the graduate receives registered nurse status. The program is approved by the Iowa Board of Nursing and accredited by the National League for Nursing Accrediting Commission, 61 Broadway - 33rd Floor, New York, NY 10006, (212-363-5555, ext. 153).

Further information regarding progression in the program and specific program policies is provided to the ADN student in the individual program handbook distributed during the first ADN class. Students are referred to this handbook throughout the program.

Students should be aware that they will travel a distance for various clinical experience and that some clinical experiences will be scheduled during evening/night hours and weekends.

Drug testing may be required by individual agencies. Criminal background checks and adult/dependent abuse checks will be required for all incoming students. Results of the background and abuse checks will be reviewed by the State Department of Human Services to determine eligibility for clinical enrollment in the program. Costs for requirements will be the responsibility of the student.

For graduates wishing to obtain a baccalaureate degree in nursing, the ADN Program articulates into other BSN programs in Iowa. The University of Iowa College of Nursing offers its satellite RN to BSN Progression Program on the NIACC campus. Through this program RNs may complete all course work for their BSN locally.



Required Courses/Suggested Schedule

First Term (Summer - 6 weeks or Fall - 8 weeks)

ADN-101	Introduction to Nursing	1 s.h.
BIO-186	Microbiology*	4 s.h.
ENG-105	Composition I*	3 s.h.
		8 s.h.

Second Term

ADN-102	Nursing I	7 s.h.
BIO-206	Anatomy and Physiology I*	4 s.h.
PSY-111	Introduction to Psychology*	3 s.h.
PSY-121	Developmental Psychology*	3 s.h.
		17 s.h.

Third Term

ADN-103	Nursing II	10 s.h.
BIO-151	Nutrition*	3 s.h.
BIO-207	Anatomy and Physiology II*	4 s.h.
		17 s.h.

Fourth Term

ADN-603	Nursing III	12 s.h.
SOC-110	Introduction to Sociology*	3 s.h.
		15 s.h.

Fifth Term

ADN-604	Nursing IV	12 s.h.
ENG-106	Composition II*	3 s.h.
		15 s.h.

Total Program Hours

72 s.h.

* Courses which may be taken prior to entering the nursing program. Once in the nursing program, courses must be taken in the identified sequence and successfully completed with a C or higher grade for a student to progress in the program.

NOTE: A current "Healthcare Provider (CPR) Certification" offered by the American Heart Association is required. The current certification/renewal needs to be completed prior to Nursing I or any reentry into the program. A yearly TB test is also required prior to Nursing I or any reentry into the program. Students must be current with these requirements or will not be allowed in the clinical area.

Students seeking entrance into the nursing program should be aware that nursing courses with a clinical component may not be taken by a person

- who has been denied licensure by the Iowa Board of Nursing;
- whose licensure is currently suspended, surrendered or revoked in any United States jurisdiction;
- whose license/registration is currently suspended, surrendered or revoked in another country due to disciplinary action.

ADN Option for Licensed Practical Nurses

A limited number of Licensed Practical Nurses who meet the following criteria will be eligible to enter the Associate Degree Nursing Program on a space-available basis. Criteria include: graduation from an approved Practical Nursing Program with a 2.50 cumulative GPA in the nursing courses; a current, unencumbered license; have practiced nursing within the past two years; meet ADN Program prerequisites; and have completed the support courses required during the first year of the ADN Program. For proper placement in the program the student must also provide evidence of a curriculum that reflects sufficient theory, clinical hours, and experiences comparable to the first year of the program. If, as a practical nursing student, the cumulative GPA for the nursing classes is below 2.50, the returning student would be required to enroll in ADN-103, Nursing II. Therefore, the LPN candidate should apply at least a year before the desired date of entering Nursing III to allow for placement in Nursing II, if necessary. One year must transpire from completion of a Practical Nursing Program and entry into the ADN Program. In addition, the student must be employed as an LPN in at least a part-time status during the one-year interval. If entering Nursing II, at least 500 hours of employment must be documented by the employer and 1,000 hours are required prior to entering Nursing III. Individual consideration will be given to applicants who have not practiced nursing within the last two years or who have practiced in a nontraditional setting. This may include a challenge examination. A verification of current skills and total hours of employment from the employers will also be used to assess appropriate placement in the program. LPN to ADN students are admitted in the fall semester only.

Eighteen semester hours of first year nursing credit will be awarded upon successful completion of Nursing III, the first course with a clinical component. In the event a student is not successful in Nursing IIA or Nursing III, the student will be evaluated on an individual basis and may be required to apply for reentry into the program for the second semester of the freshman year on a space-available basis.

Students should be aware that they will travel a distance for clinical experience and that some clinical experiences will be scheduled during evening/night hours and weekends. Criminal background checks and adult/dependent abuse checks will be required. Drug testing may also be required by individual agencies. Results of these checks will be used by contracted clinical facilities to determine clinical eligibility. Costs for requirements will be the responsibility of the student.



Career Opportunities

- Hospitals, nursing facilities, and clinics
- Health maintenance organizations
- Private offices and clinics of doctors and dental surgeons
- Government agencies and the military
- Visiting nurse associations
- Community Healthcare agencies
- Temporary staffing agencies
- Entrepreneurial ventures

Prerequisites:

The following required courses must be completed with a grade of C or better.

Mathematics:

1. Two full-year courses (2 semesters each year) of math in high school (e.g., Algebra I, Algebra II, Geometry)
OR
two semesters of college equivalent math (e.g., MAT-063, Elementary Algebra, MAT-102, Intermediate Algebra)

The curriculum will also be evaluated for:

Science:

1. Chemistry: two semesters of high school/college preparatory chemistry
OR
one semester of college chemistry, CHM-122, Introduction to General Chemistry
2. Biology: two semesters of high school/college preparatory biology
OR
one semester of a college biology course, BIO-102, Introductory Biology and lab or BIO-157, Human Biology and lab
3. Anatomy & Physiology: college level A&P for two semesters (e.g., BIO-206 Anatomy and Physiology I and BIO-207 Anatomy and Physiology II). Anatomy and Physiology I and II must be completed within five years of beginning the Nursing II or III course.

Computer Technology:

Since the NCLEX-RN exam is a computerized test, computer competencies are strongly recommended.

Other elements of the selection process include high school and college GPA and ACT scores. All criteria for the ADN Program apply and should be reviewed. This information must be in the applicant's file before the admissions committee will act on the application. Upon acceptance, a physical examination providing evidence of current immunization and sound physical and mental health is required. Criminal background checks and adult/dependent abuse checks will be required at student expense. Drug testing may also be required by individual agencies and the cost will be the responsibility of the student. Results of those checks will be used by contracted facilities to determine clinical eligibility.

Since the applicant's progress toward meeting prerequisites and admission requirements must be tracked, applicants to the Licensed Practical Nursing to Associate Degree Nursing Program must complete the application process through the health professions counselor located in the Student Services Office. Expected date of graduation will determine when the application to the program must be submitted.

Students must attain a C grade in all ADN courses and prescribed support courses to continue in the ADN Program. An overall 2.00 GPA in the prescribed curriculum and a minimum overall cumulative college grade point average of 2.00 is required for graduation from this program.

ADN Option for Licensed Practical Nurses (Continued)

Further information regarding progression in the program and specific program policies is provided to the ADN student in the individual program handbook. Students are provided this handbook during the first ADN class day. Students are referred to this handbook throughout the program.

Required Courses/Suggested Schedule

The following are the support courses required prior to beginning the nursing aspect of the curriculum. These courses must be completed with a minimum of a C grade.

BIO-186	Microbiology	4 s.h.
BIO-151	Nutrition	3 s.h.
ENG-105	Composition I	3 s.h.
PSY-111	Introduction to Psychology	3 s.h.
PSY-121	Developmental Psychology	3 s.h.

Prescribed Curriculum

First Term (Summer - one week, end of August)

ADN-104	Nursing IIA	1 s.h.
		1 s.h.

Second Term (Fall)

ADN-603	Nursing III	12 s.h.
SOC-110	Introduction to Sociology*	3 s.h.
		15 s.h.

Third Term (Spring)

ADN-604	Nursing IV	12 s.h.
ENG-106	Composition II*	3 s.h.
		15 s.h.

* Prescribed support courses which may be taken prior to entering the program.

NOTE: A current "Healthcare Provider (CPR) Certification" offered by the American Heart Association. The current certification/renewal needs to be completed prior to entry into the program. A yearly TB test is also required prior to entry into the program. Students must be current with these requirements or will not be allowed in the clinical area.

Students seeking entrance into the nursing program should be aware that nursing courses with a clinical component may not be taken by a person

- who has been denied licensure by the Iowa Board of Nursing;
- whose licensure is currently suspended, surrendered or revoked in any United States jurisdiction;
- whose license/registration is currently suspended, surrendered or revoked in another country due to disciplinary action.

Practical Nursing

Practical Nursing is designed to prepare individuals to work in nursing situations which are relatively stable and unchanging. They are also prepared to assist experienced registered nurses and physicians in nursing situations that are complex and changing. Individuals considering enrollment or currently enrolled in the nursing program should be aware that prior felony convictions may prohibit eligibility for licensure upon completion of the program.

Students should be aware they may need to travel a distance for clinical experience and that some clinical experiences will be scheduled during evening/night hours and weekends. Criminal background checks and adult/dependent abuse checks will be required. Drug testing may also be required by individual agencies. Results of these checks will be used by contracted clinical facilities to determine clinical eligibility. Costs for requirements will be the responsibility of the student.

Entrance Requirements

The applicant must complete the application process through the health professions counselor located in the Student Services Office. Entrance requirements include the following criteria:

1. Completion of a high school diploma or equivalency program.
2. Completion of high school with a grade point average of 2.00 or higher.
3. Satisfactory COMPASS assessment test results in reading, writing, and math (these are administered by NIACC).
4. Approved applicants are accepted into the program chronologically, based on the date of application. Completed applications are reviewed beginning in October of the year prior to the June start date and completed by the end of January of each year.

Applicants who do not meet requirements or those with a poor academic history may meet entrance requirements by successfully completing approved college courses and/or increasing assessment test results in an approved manner. This should be discussed with the health professions counselor.

Biology, general math (Essentials of Math, Math for Liberal Arts, Algebra), and six semesters of English are recommended prior to applying to the program. Since the NCLEX-PN exam is a computerized test, a computer class is strongly recommended. An application to the Practical Nursing Program, high school transcript, GED scores (if applicable), and all college transcripts must be in the applicant's folder before

the Admissions Committee takes action on acceptance into the Practical Nursing Program. After acceptance, a physical examination providing evidence of current immunization and sound physical and mental health is required.

Applicants who have been previously enrolled in an approved nursing program may request consideration for advanced standing.

Students must complete all course requirements in the first two terms before enrolling in the third term. Students should be aware they may need to travel a distance for clinical experience and that some clinical experiences will be scheduled during evening hours and weekends.

Students who withdraw from the program must make formal application for reentry and upon acceptance will be considered on a space-available basis. After being accepted into the program, a student may delay entrance into the program no more than two (2) years. A student will be required to reapply to the program after this period of time. Readmission criteria is addressed in the PN Student Handbook. A student may reenter the nursing curriculum one time.

Students must attain a C grade in all nursing courses and at least a C- in prescribed support courses to continue sequential progression in the PN Program. However, an overall 2.00 GPA in the prescribed curriculum and a minimum overall cumulative college grade point average of 2.00 is required for graduation from the PN Program. If the student wishes to later seek application to the ADN Program, a cumulative GPA of 2.50 in the nursing courses must be attained, as well as a C grade in all support courses required for the ADN Program. If the student has not attained a 2.50 cumulative nursing course GPA, the student will be required to enroll in Nursing II, ADN-103, of the ADN Program.

Upon satisfactory completion of the prescribed curriculum, a diploma is awarded and the graduate is eligible for the NCLEX-PN exam. After passing this examination, the graduate receives licensed practical nurse status and is prepared to work in a beginning licensed practical nurse position under the supervision of qualified personnel. The program is approved by the Iowa Board of Nursing.

Students seeking entrance into the nursing program should be aware that nursing courses with a clinical component may not be taken by a person

- a) who has been denied licensure by the Iowa Board of Nursing;
- b) whose licensure is currently suspended, surrendered or revoked in any United States jurisdiction;
- c) whose license/registration is currently suspended, surrendered or revoked in another country due to disciplinary action.

Career Opportunities

Licensed Practical Nurses work indoors for:

- Hospitals, nursing homes, clinics, and other healthcare facilities
- Health maintenance organizations
- Private doctors' offices
- Public health agencies
- Home healthcare services
- Government agencies
- Welfare and religious organizations
- Nurses registries and temporary health agencies
- Private duty

Licensed Practical Nurses work with:

- Patients and their families
- Thermometers, stethoscopes, and other medical equipment
- Bandages, catheters, and other medical supplies
- Patients' records and charts
- Various types of medication
- Physicians' orders
- Appointment books

Practical Nursing (Continued)

Required Courses/Suggested Schedule

First Year

First Term (Summer - 6 weeks)

ENG-105	Composition I*	3 s.h.
HSC-150	Body Structure and Function**	4 s.h.
	OR Anatomy and Physiology I and II	
PNN-603	Practical Nursing I	4 s.h.
		11 s.h.

**Body Structure and Function must be completed within five years of beginning the nursing component of the curriculum.

Second Term (Fall)

PNN-604	Practical Nursing II	13 s.h.
PSY-111	Introduction to Psychology*	3 s.h.
		16 s.h.

Third Term (Spring)

PNN-607	Practical Nursing III	13 s.h.
PSY-121	Developmental Psychology*	3 s.h.
		16 s.h.

Total Program Hours **43 s.h.**

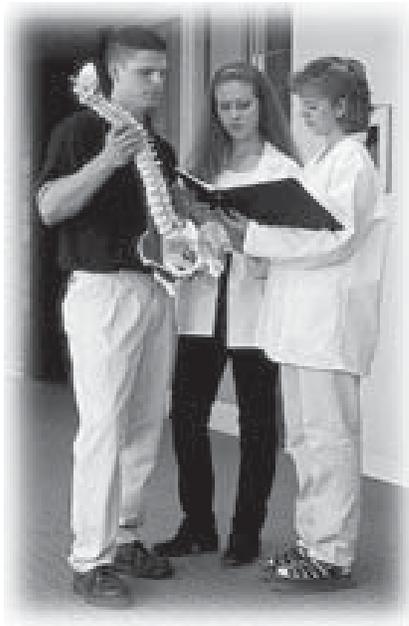
* Courses which may be taken prior to entering the nursing program.

NOTE: A current "Healthcare Provider (CPR) Certification" offered by the American Heart Association is required. The current certification/renewal needs to be completed prior to the fall term or any reentry into the program. A yearly TB test is also required prior to the Fall term or any reentry into the program. Students must be current with these requirements or will not be allowed in the clinical area.

Physical Therapist Assistant

The Physical Therapist Assistant Program is designed to prepare individuals to work under the supervision of a Physical Therapist in the delivery of physical therapy services. Responsibilities include: implementing treatment programs according to the Physical Therapist's plan of care, training patients in exercises and activities of daily living, administering modalities such as ultrasound, electrical stimulation, and other treatment procedures, and communicating with the Physical Therapist on the patient's progress.

The program is two academic years in length including one summer. Students must attain a C grade in all PTA courses, achieve a "pass" grade in all clinical assignments, and a C- grade in all support courses to progress through the program. Although the program has specific requirements regarding the program completion, in order to be eligible for graduation from the College, all students must achieve a minimum overall cumulative GPA of 2.00. Upon completion of the curriculum, the student is awarded an Associate in Applied Science Degree. In order for the graduate to practice physical therapy, a license is required in most states. The program is accredited by the Commission on Accreditation in Physical Therapy Education (111 N. Fairfax Street, Alexandria, VA 22314, Telephone (703)706-3245) and, therefore, graduates of the program are eligible to take the national licensure examination.



Entrance Requirements

The applicant must complete the application process through the health professions counselor located in the Student Services Office. Entrance requirements include the following criteria:

1. Have a high school diploma or its equivalent.
2. Meet two of the three following criteria:
 - a. Graduated in the upper half of the high school class.
 - b. Graduated from high school with a minimum of a 3.00 GPA.
 - c. Achieved an ACT composite score of 20 or higher.

Applicants who do not meet the above requirements or those with a poor academic history may meet entrance requirements by successfully completing approved college courses with a cumulative GPA of 2.00. This should be discussed with the health professions counselor.

3. Documented evidence of 24 hours of observation time in a physical therapy setting.

An applicant's file will not be reviewed until all application criteria have been submitted.

Prerequisites:

The following courses must be completed with a grade of C- or better:

Mathematics:

Four semesters of high school preparatory math (e.g., Algebra I, Algebra II, Geometry)

OR

Two semesters of college math (e.g., MAT-063, Elementary Algebra, MAT-102, Intermediate Algebra)

Science:

Two semesters of high school/college preparatory biology

OR

One semester of college biology (e.g., BIO-102/103, Introductory Biology and lab or BIO-157, Human Biology and lab)

Two semesters of high school/college preparatory chemistry or physics

OR

One semester of college chemistry (e.g., CHM-122, Introduction to General Chemistry) or physics (e.g., PHY-106, Survey of Physics)

Computer Technology:

The student must provide evidence of knowledge of basic computer hardware and software functions, including proper use of e-mail and the Internet.

After acceptance, a physical examination documenting current immunization and abilities to perform program requirements is needed. Students are also required to obtain CPR certification for the adult, child, and infant. CPR certification must be kept current while in the program. In addition, criminal background checks and adult/dependent abuse checks will also be required. Results of these checks will be used by contracted clinical facilities to determine clinical eligibility. Costs for requirements will be the responsibility of the student.

Students who withdraw from the program must make formal application for reentry and upon acceptance will be considered on a space-available basis. Readmission criteria is addressed in the PTA Student Handbook. A student may reenter the PTA program once. After being accepted into the program, a student may delay entrance into the program no more than two (2) years. A student will be required to reapply to the program after this period of time.

Further information regarding progression in the program and specific program policies is provided to the PTA student in the individual program handbook. Students are provided this handbook the first week of classes. Students are encouraged to refer to this handbook throughout the program.

Physical Therapist Assistant (Continued)

Required Courses/Suggested Schedule

First Year

First Term (Fall)

BIO-206*	Anatomy and Physiology I	4 s.h.
HSC-120*	Medical Terminology	3 s.h.
	OR PTA-100*, PTA Terminology (1 s.h.)++	
PSY-111*	Introduction to Psychology++	3 s.h.
PTA-101	Introduction to PTA	2 s.h.
PTA-110	Fundamentals of PTA	3 s.h.
00:000*	Humanities Elective++	3 s.h.
		16-18 s.h.

Second Term (Spring)

BIO-207*	Anatomy and Physiology II	4 s.h.
ENG-105*	Composition I	3 s.h.
	OR ENG-102* Composition & Speech I (4 s.h.)	
PTA-120*	Kinesiology	3 s.h.
PTA-141*	Developmental Processes	3 s.h.
PTA-190	Physical Agents	4 s.h.
PTA-300**	Introduction to the Clinic (1 week)	1 s.h.
PTA-301**	PTA Clinic I (2 weeks)	2 s.h.
		20-21 s.h.

Third Term (Summer - 7 weeks)

PTA-150	Pathophysiology	3 s.h.
PTA-162	PTA Assessment Procedures	3 s.h.
PTA-302	PTA Clinic II	2 s.h.
		8 s.h.

Second Year

Fourth Term (Fall)

ENG-106*	Composition II	3 s.h.
	OR ENG-103* Composition & Speech II (4 s.h.)	
PTA-210	Orthopedics	3 s.h.
PTA-231	Therapeutic Exercise for PTA	3 s.h.
PTA-241	Neurology for PTA	4 s.h.
PTA-250	PTA Career Essentials	2 s.h.
		15-16 s.h.

Fifth Term (Spring)

PTA-280	PTA Seminar	1 s.h.
PTA-400	PTA Clinic III (8 weeks)	7 s.h.
PTA-401	PTA Clinic IV (6 weeks)	5 s.h.
		13 s.h.

Total Program Hours

73-76 s.h.

* Courses which may be taken prior to entering the program, but prerequisites may need to be taken. Note that Anatomy and Physiology must be taken within five years of beginning the program, and Kinesiology must be taken within three years of starting the program.

++Once enrolled in the program, courses must be taken in the identified sequence with the exception of the following. Medical Terminology or PTA Terminology must be completed prior to Term III. (It is noted that during Term II, only Medical Terminology would be available.) Introduction to Psychology must be completed prior to Term IV. Humanities elective may be taken any time prior to Term V.

** These clinical courses extend outside the standard weeks of the term. See individual course descriptions.

The student should be aware that the clinical experience hours necessitate travel to various hospitals and clinics and may necessitate housing expenses. Each individual clinical site may have specific requirements that vary (e.g., 10-hour days, background checks, drug testing, agency specific orientations, urinalysis tests). The student is responsible for all costs and must comply with clinical requirements in order to be provided with an affiliation.

Career Opportunities

Physical Therapist Assistants are employed at a variety of settings including but not limited to the following: hospitals, skilled nursing facilities, clinics, private practice clinics, rehabilitation centers, intermediate care facilities, residential facilities for children with disabilities, home health agencies, sports injury clinics, long-term care facilities, outpatient facilities, research centers, industrial settings, health maintenance organizations, academic institutions, and schools. Physical Therapist Assistants work with: prostheses (artificial limbs), orthoses (artificial supports); braces, canes, crutches, and walkers; wheelchairs; traction equipment, exercise equipment such as lifts, weights, and parallel bars; medical records.

Regional Health

Career Programs

A.A.S. Paramedic

- Emergency Medical Technician Basic (EMT-B)
- Emergency Medical Technician Paramedic (EMT-P)

Regional Health Programs

Nurse Aide

REGIONAL HEALTH

Marge Wasicek, Director
Regional Health Education Center
(641) 422-7100

The Regional Health Education Center is a partnership with NIACC and North Iowa Mercy Health Care Center.

A.A.S. PARAMEDIC

**Emergency Medical Technician
Basic (EMT-B)**

**Emergency Medical Technician
Paramedic (EMT-P)**

NURSE AIDE



A.A.S. Paramedic

The Paramedic Program is composed of three levels of training and certification. The three levels are: Emergency Medical Technician-Basic (EMT-B), Emergency Medical Technician-Intermediate (EMT-I), and Emergency Medical Technician-Paramedic (EMT-P). The courses are developed in a ladder sequence. The EMT-B courses are offered as needed at various locations. The EMT-I courses are offered yearly, and EMT-P courses are offered as needed. The courses are offered evenings and weekends. All levels require completion of clinical experience. The EMT-I and EMT-P courses require completion of field experience with an advanced emergency medical service.

Students must maintain an 80 percent overall average within the EMT-B and the EMT-P courses and have met the completion requirements listed in the student handbook to be eligible for EMS certification in the state of Iowa.

Program graduates may obtain employment or volunteer with public or private agencies employing emergency medical personnel who have successfully passed state and/or national certification examinations. Employers may also require psychological and physical dexterity examinations as a prerequisite for such employment. The College assumes no responsibility for paying for such examinations.

Upon successful completion of the two-year program, the graduate is awarded an Associate in Applied Science Degree.

Individuals who have completed the EMT-B, EMT-I, or EMT-P course prior to college credit approval and are currently certified in the state of Iowa may receive college credit. This college credit may be obtained for a nominal fee upon program completion and certification, upon submission of a qualification statement and supporting evidence of current certification and continuing education, and upon successful completion of the NIACC final test (80 percent or higher score).

ENTRANCE REQUIREMENTS FOR EMT-B:

1. Be at least 17 years of age at the time of enrollment.
2. Be proficient in writing, reading, and speaking English.
3. Be physically and emotionally capable of performing basic emergency care skills.
4. Current certification card in CPR.

Note: Criminal background checks and adult/dependent abuse checks will be required. Drug testing may also be required by individual agencies. Results of these checks will be used by contracted clinical facilities to determine clinical eligibility. Costs for requirements will be the responsibility of the student.

ENTRANCE REQUIREMENTS FOR EMT-I AND EMT-P:

1. Be at least 17 years of age at the time of enrollment.
2. High school diploma or general education equivalent.
3. Maturity of judgment, sound moral character and health status to provide reasonable assurance that the student will meet the physical and mental demands of the occupation.

4. Evidence of current certification card in CPR.
5. Evidence of successful completion of a course of training for EMT-Basic.
6. Evidence of certification as an EMT-Basic for the state of Iowa.
7. A recommendation by the Advance Care Training Admission Committee attesting to the applicant's attitude, professionalism, motivation, dependability, and desire to follow instructions and orders with reliability.

****Note:** Criminal and adult abuse checks will be required and the cost will be the responsibility of the student.

A physical examination by a physician or a physician extender and immunization record are required prior to beginning hospital clinicals at all levels of course work. The immunization requirements include receiving the hepatitis B vaccine or signing a waiver.

EMS - Related Courses

EMS-220	EMT-Basic I.....	4 s.h.
EMS-224	EMT-Basic II.....	2 s.h.
EMS-411	EMT-Paramedic: Part I.....	6 s.h.
EMS-412	EMT-Paramedic: Part II.....	7 s.h.
EMS-413	EMT-Paramedic: Part III.....	3 s.h.
EMS-414	EMT-Paramedic Part IV.....	3 s.h.
		25 s.h.

The required related courses may be taken prior to enrolling, during the time the student is enrolled in the program, or after completion of the sequential curriculum.

Required Courses

BIO-206	Anatomy and Physiology I.....	4 s.h.
BIO-207	Anatomy and Physiology II.....	4 s.h.
ENG-102	Composition & Speech I.....	4 s.h.
ENG-103	Composition & Speech II.....	4 s.h.
MAT-110	Math for Liberal Arts.....	3 s.h.
PSY-111	Introduction to Psychology.....	3 s.h.
PSY-121	Developmental Psychology.....	3 s.h.

Other Recommended Related Electives

BCA-101	Introduction to Computers and Information Systems.....	3 s.h.
BUS-161	Human Relations.....	3 s.h.
MGT-101	Principles of Management.....	3 s.h.
EMS-311	EMT Intermediate 85.....	4 s.h.

Nurse Aide

The Nurse Aide course prepares individuals to work in long-term care facilities (LTC) and hospitals.

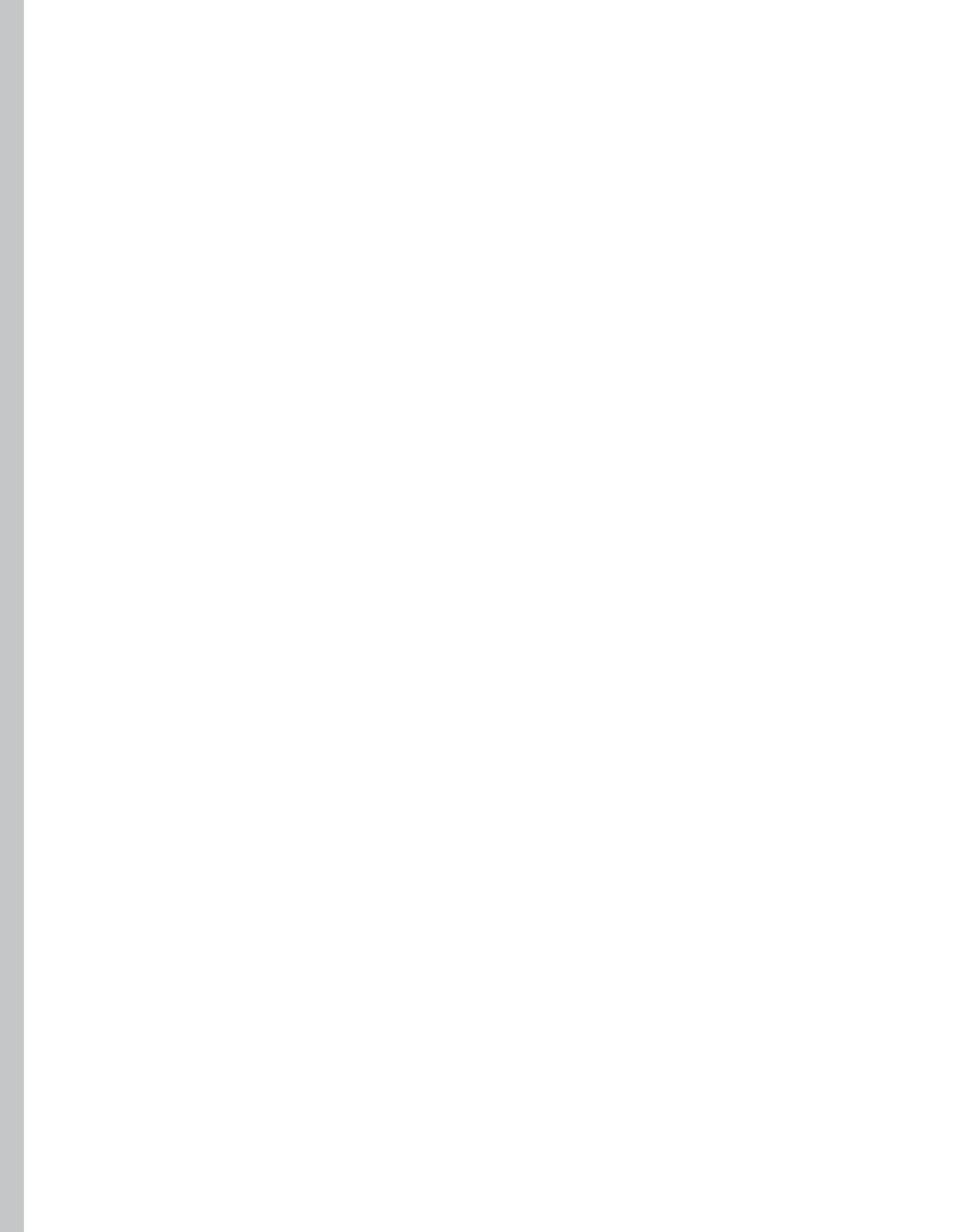
Nurse Aide classes are offered monthly in the NIACC area. Upon completion of the Nurse Aide course, a state written test and a skills demonstration test must be completed with a score of 70 percent or better. Passing these tests is required in order to be placed on the Department of Inspections and Appeals Nurse Aide Registry. Placement on the Iowa Nurse Aide Registry is necessary to be employed as a nurse aide in long-term care in Iowa; this includes nursing facilities and skilled nursing units in hospitals.

ENTRANCE REQUIREMENTS FOR NURSE AIDE

1. Must be 16 years or older.
2. High school diploma or GED. (Note: if you are currently in high school, you must submit a letter of acknowledgment from your high school counselor.)
3. Strength and endurance to meet the requirements in performing skills such as lifting and moving residents.
4. Physical exam by a physician or a physician extender. This must be completed prior to the clinical portion of the course.
5. Current immunization records are required prior to beginning clinical. The immunization requirements include Rubella titer, TB test, hepatitis B vaccine, or signing a waiver for the hepatitis vaccine.

****Note:** Criminal and adult abuse checks may also be required by individual agencies and the cost will be the responsibility of the student.

For further information, contact the health professions counselor at 1-888 GO NIACC, Ext. 4207 or 641-422-4207.



Public Service

Transfer Degree

Certificate

Criminal Justice

Public Service Programs

Fire Science

PUBLIC SERVICE



Criminal Justice

William Basler, Program Leader
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 baslewil@niacc.edu

The NIACC Criminal Justice curriculum was developed with the assistance of the Iowa Law Enforcement Academy and a local advisory committee of professionals employed in various criminal justice fields. The curriculum prepares students for careers in Criminal Justice in both the public and private sector.

Program graduates may obtain immediate employment with public or private agencies concerned with public safety, crime prevention, security, or the apprehension and rehabilitation of criminals. A person convicted of a crime may have limited job opportunities in some criminal justice careers.

Many program graduates choose to continue their education in the area of Criminal Justice by transferring to a four-year academic institution or university. NIACC's articulation agreements facilitate the transfer of NIACC credit to many institutions.

A person considering employment with a public agency should check to determine the necessity of successfully passing psychological examinations, as well as meeting standards related to physical fitness and eyesight capabilities, as a prerequisite to such employment. The College assumes no responsibility for paying for such examinations.

Upon successful completion of an Associate in Arts Degree and the required courses, the graduate is awarded a NIACC Criminal Justice Certificate.

REQUIRED CORE COURSES

CRJ-100	Introduction to Criminal Justice.....	3 s.h.
CRJ-105	Foundations in Criminal Justice.....	3 s.h.
CRJ-110	Patrol Procedures.....	3 s.h.
CRJ-130	Criminal Law.....	3 s.h.
CRJ-141	Criminal Investigation.....	3 s.h.
CRJ-230	Evidence.....	3 s.h.

REQUIRED GENERAL EDUCATION COURSES

BIO-102	Introductory Biology. (3 s.h.*).....	3-5 s.h.
	OR BIO-152 Health and Nutrition (3 s.h.)	
	OR PHS-125 Physical Science (4 s.h.*)	
	OR PHY-106 Survey of Physics (4 s.h.*)	
	OR CHM-122 Introduction to General Chemistry (4 s.h.*)	
	OR CHM-153 College Chemistry I*	
ENG-102	Composition & Speech I*.....	4 s.h.
ENG-103	Composition & Speech II*.....	4 s.h.
	Humanities Elective(s).....	5 s.h.
PHI-105	Introduction to Ethics.....	3 s.h.
POL-111	American National Government (3 s.h.*).....	3 s.h.
	OR POL-112 American State & Local Government*	
PSY-111	Introduction to Psychology*.....	3 s.h.
	Mathematics*.....	3-4 s.h.
SOC-110	Introduction to Sociology*.....	3 s.h.
SOC-115	Social Problems (3 s.h.*).....	3 s.h.
	OR SOC-120 Marriage & Family (3 s.h.*)	
	OR PSY-121 Developmental Psychology	

SUGGESTED COURSES

SDV-210	Cooperative Education Internship.....	1-5 s.h.
PEH-140	First Aid (Required for jobs in private sector).....	1 s.h.

*General Education courses must total at least 40 semester hours to meet A.A. degree requirements. A minimum of 60 semester hours are needed for graduation.

Career Opportunities

Successful graduates can find job opportunities in the following occupational areas:

•Police Departments	•Narcotics Bureaus
•Highway Patrols	•Crime Prevention Laboratories
•Correctional Institutions	•Private Investigation Services
•Industry	•Immigration Service
•Court Systems	•Border Patrol
•Sheriff's Offices	

For specific information contact the North Iowa Career Center.

During the 1998-99 school year, an articulation agreement was reached with the Iowa Law Enforcement Academy. This agreement allows up to 15 hours of credit earned at the Academy to be awarded at NIACC.

Fire Science

John Sjolinder, Program Leader

(641) 422-4202

sjolijoh@niacc.edu

The NIACC Fire Science curriculum was developed with the assistance of the Mason City Fire Department as an articulation program. The curriculum is intended for those persons already employed by fire departments who wish to obtain further education for professional advancement, as well as for those who desire advanced study in fire science. Courses are provided and scheduled as needed and may not follow a traditional two-year cycle. Please consult an academic advisor prior to registration.

Upon successful completion of the program, the graduate is awarded an Associate in Arts Degree and a NIACC Fire Science Certificate.

REQUIRED COURSES

EMS-220	EMT Basic I.....	4 s.h.
EMS-224	EMT Basic II.....	2 s.h.
FIR-155	Fire Protection Technology	4 s.h.
FIR-184	Hazardous Material Technician.....	3 s.h.
FIR-210	Incident Command System.....	1 s.h.
FIR-231	Fire Behavior and Investigation	4 s.h.
FIR-281	Fire Instructor I.....	2 s.h.
		20 s.h.

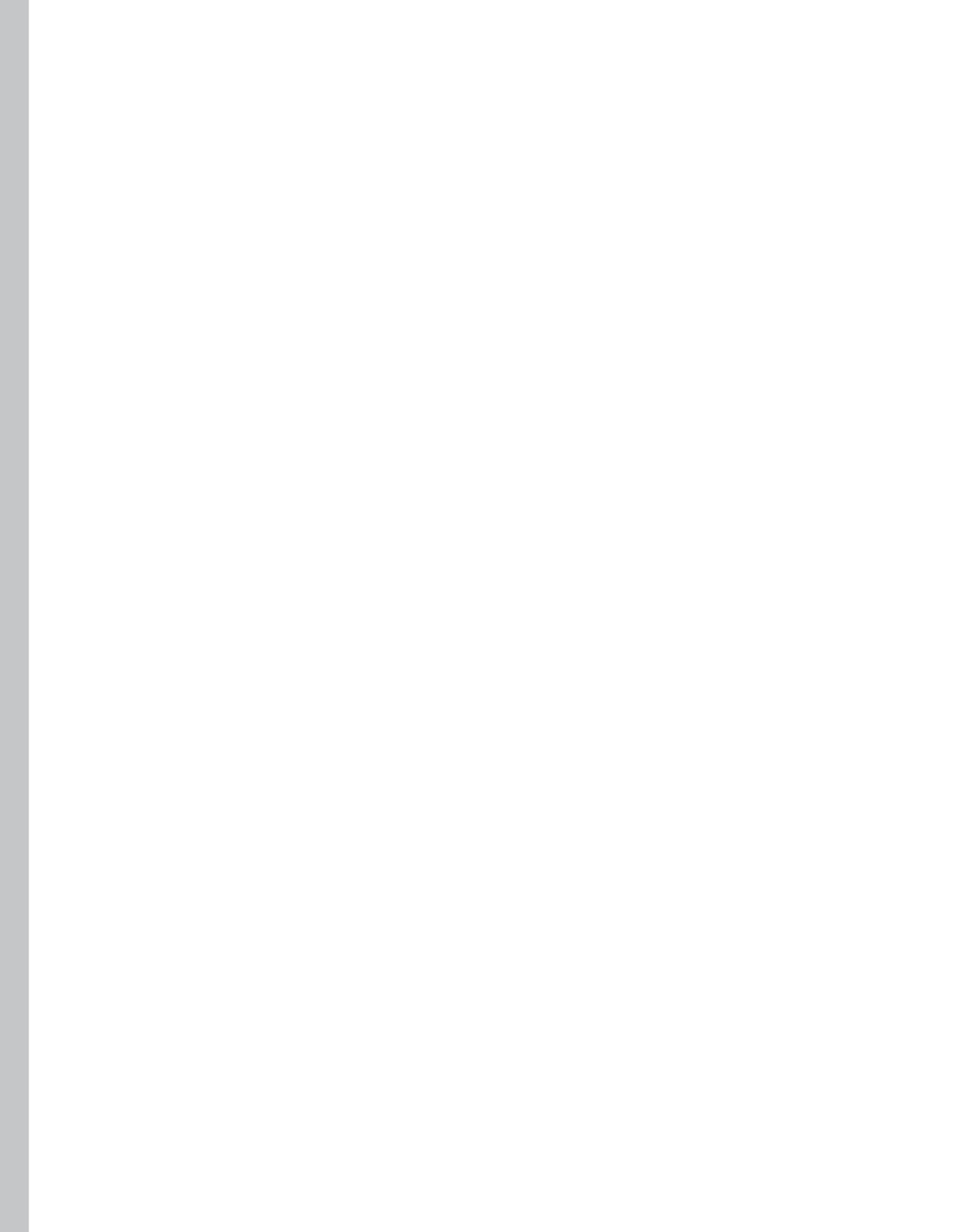
GENERAL EDUCATION REQUIREMENTS

Communication.....	8 s.h.
Humanities	8 s.h.
Social Sciences	8 s.h.
Natural Science/Mathematics.....	8 s.h.
Distributed Requirement.....	8 s.h.
	40 s.h.

Career Opportunities

Graduates may obtain immediate employment with fire departments and perform duties as required. They may also choose to transfer to a senior institution for further study.

For specific information contact the North Iowa Career Center or the NIACC Industrial Division.



Industrial Division

Transfer Degree

Career Programs

Construction Technology

- Building Trades

Precision Production Technology

- General Machinist Diploma
- Tool and Die Technology Degree
- Welding Certificate

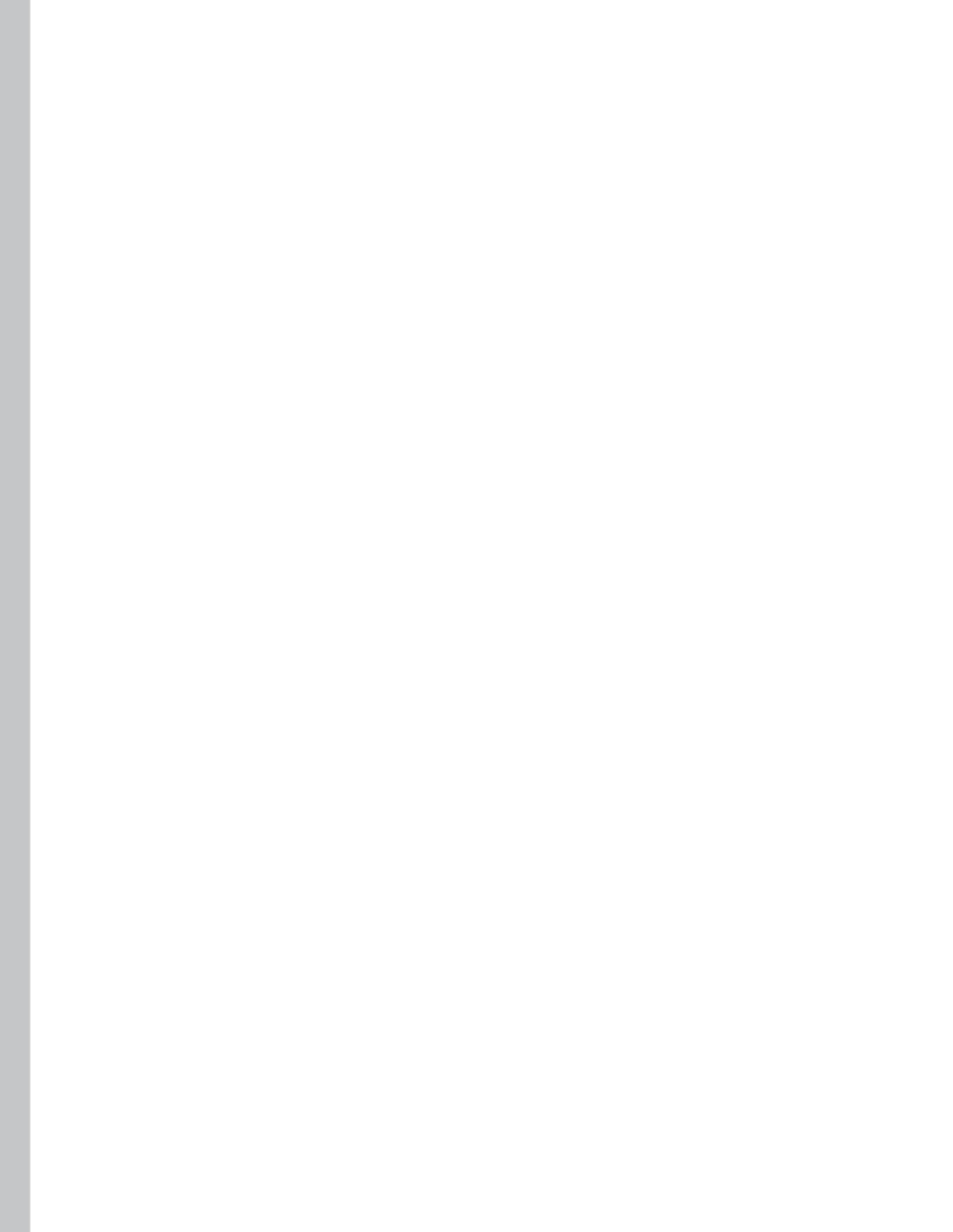
Industrial Program Clusters

Mechanical Technology

- Automotive Service Diploma
- Automotive Service Technology Degree
- Climate Control Mechanics Diploma
- Climate Control Technology Degree

Engineering Related Technology

- Electromechanical Systems
Technology
- Industrial Technology



INDUSTRIAL TECHNOLOGY

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 sjolijoh@niacc.edu

CONSTRUCTION TECHNOLOGY

Building Trades

MECHANICAL TECHNOLOGY

Automotive Service Diploma
Automotive Service Technology Degree
Climate Control Mechanics Diploma
Climate Control Technology Degree

PRECISION PRODUCTION TECHNOLOGY

General Machinist Diploma
Tool and Die Technology Degree
Welding Certificate

ENGINEERING RELATED TECHNOLOGY

Electromechanical Systems Technology
Industrial Technology



INDUSTRIAL DIVISION

University of Northern Iowa

NIACC's Industrial Division and the University of Northern Iowa's Department of Industrial Technology have teamed up to provide excellent transfer and articulation agreements for students wishing to pursue a four-year degree. These four-year programs include: Construction Management, Electrical and Information Engineering Technology, Graphic Communications, Technology Management, Technology Education, and Manufacturing Technology.

The transfer options include both the Associate in Arts (A.A.) and Applied Science (A.A.S.) Degrees from NIACC. Differences in liberal arts and technical courses with these degrees will affect the remaining four-year degree requirements at UNI.

The articulation agreement, sometimes referred to as a 2+2 agreement, has been developed for many of the technology-related A.A.S. programs at NIACC. The agreement provides details on transfer of A.A.S. credits into Technology Management as well as other majors in the Department of Industrial Technology at UNI.

For more details on these transfer options, please refer to the College Transfer Programs section of the NIACC catalog or contact our academic advisor.

Automotive Service Technology

Automotive Service Technology is a 4 1/2 semester Associate in Applied Science (A.A.S.) Degree Program. The program is ASE/NATEF Master Certified. All eight instructional areas meet industry and educational standards as identified by Automotive Service Excellence and evaluated by the National Automotive Technicians Education Foundation:



- Engine Repair
- Automatic Transmission/Transaxle
- Manual Drive Train and Axles
- Suspension and Steering
- Brakes
- Electrical/Electronic Systems
- Heating and Air Conditioning
- Engine Performance

A.A.S. Degree Requirements:

Completion of required curriculum, with a cumulative grade point average of 2.00 (C).

Diploma Option Requirements:

An Automotive Service diploma is granted to a student who has completed the first three terms of the automotive curriculum and SDV-135, Job Seeking Skills. A minimum cumulative grade point average of 2.00 (C) is required. Developmental courses are not used in calculating the cumulative grade point average for graduation.

Entrance Advising:

Due to the highly technical nature of the Automotive programs and NIACC's commitment to giving students the best possible opportunity for success, students will be scheduled for advisement sessions with counselors and program personnel. In these sessions, the student's career plans, previous background, transcriptions, test scores, life experiences, and motivation will aid in designing a positive educational experience.

Career Opportunities

Technicians are employed at automotive dealerships and independent service/repair facilities as general (line) technicians or as specialty technicians.



2004 National Winner of ASE Award of Excellence

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

AUT-104	Introduction to Automotive Technology	3 s.h.
AUT-115	Automotive Shop Safety	1 s.h.
AUT-403	Automotive Suspension and Steering.....	3 s.h.
AUT-503	Automotive Brake Systems.....	3 s.h.
ELT-115	Electronic Concepts	3 s.h.
MAT-770	Applied Math	2 s.h.
MAT-771	Applied Math II	2 s.h.
		17 s.h.

Second Term (Spring Semester)

AUT-163	Automotive Engine Repair	3 s.h.
AUT-303	Automotive Manual Drive Train & Axles.....	3 s.h.
AUT-612	Automotive Electrical Systems I.....	3 s.h.
ELT-745	Maintenance Shop Operations	3 s.h.
ENG-701	Communications I	3 s.h.
		15 s.h.

Third Term (Summer)

AUT-703	Automotive Heating & Air Conditioning.....	3 s.h.
AUT-840	Automotive Computerized Controls	3 s.h.
		6 s.h.

Second Year

Fourth Term (Fall Semester)

AUT-205	Automotive Automatic Trans & Transaxles	5 s.h.
AUT-657	Automotive Electrical Systems II.....	5 s.h.
AUT-832	Automotive Fuel Delivery Systems	3 s.h.
BUS-161	Human Relations	3 s.h.
		16 s.h.

Fifth Term (Spring Semester)

AUT-857	Advanced Engine Performance	6 s.h.
AUT-865	Automotive Engine Performance Testing.....	5 s.h.
ENG-702	Communications II	3 s.h.
SDV-135	Job Seeking Skills.....	1 s.h.
		15 s.h.

Total Program Hours 69 s.h.

Automotive Program Goal

Prepare individuals for employment in the automotive service industry by:

- Maintaining an environment that is conducive to learning.
- Offering curriculum that reflects current industry requirements.
- Delivering classroom instruction that encourages analytical thinking.
- Providing laboratory experience that utilizes technical and problem-solving skills.
- Promoting workmanship that meets or exceeds industry standards.

Building Trades

Building Trades is a diploma program designed for individuals interested in a career in residential, commercial, or industrial building construction. Residential construction involves the building or remodeling of houses, condominiums, or apartment complexes. These structures are primarily wood frame construction. Commercial construction involves the building of single-story office buildings, stores, or restaurants. These structures often use light gauge metal framing in addition to wood construction. Industrial construction includes the building of factories, hospitals, schools, or multistory office buildings. These structures may be constructed of concrete, masonry, structural steel, or a combination of materials.

Building Trades Program students learn and develop skills through a combination of classroom-structured units, manipulative lab projects, and mentored job experiences. Classroom units provide students with necessary information on safety, blueprint reading, and craft work processes. Manipulative projects provide students the opportunity to learn craft skills at their own pace in a mock job site setting. The Building Trades Lab is a state-of-the-art facility where students learn in an individualized, competency-based setting, mastering skills by constructing manipulative projects. Mentored job experiences provide students the opportunity to apply learned skills as well as develop new skills while working under the guiding supervision of skilled contractors on job sites around North Iowa.

Incoming students are eligible to compete for scholarships through the Tom and Linda Schaefer Endowment Fund, which provides twelve \$ 1,000 scholarships each year for NIACC Building Trades students. Graduating students are eligible to compete for a \$ 500 scholarship awarded each semester by the Contractors' Advisory Association and the North Iowa Area Builders Exchange. The Contractors' Advisory Association has also created a financial assistance agreement to enable a contractor to repay a portion of a student's educational costs after the student has completed the program requirements. In exchange for a commitment to work for a Contractors' Advisory Association member contractor after graduation, a student may receive full or partial tuition assistance from the contractor. A diploma will be awarded upon successful completion of the prescribed curriculum with a grade point average of 2.00 (C) or better.

Courses are structured so that students may enter the Building Trades Program at any semester. For further information on the program, check out our web site at: <http://staff.niacc.edu/awermes/btrades/>.



Required Courses/Suggested Schedule

4-Semester Open-Entry Program - Students may enter Summer, Fall, or Spring. Below is the Summer entry course sequence. Fall and Spring entry contain same courses, but sequence may vary slightly.

First Year

First Term (Summer)

BCA-118	Introduction to the PC	1 s.h.
CON-110	Construction Drawing	1 s.h.
CON-211	Carpentry Fundamentals I	3 s.h.
CON-212	Carpentry Fundamentals II	3 s.h.
SDV-210	Cooperative Education Internship	2 s.h.
		10 s.h.

Second Term (Fall Semester)

CON-107	Construction Safety	2 s.h.
CON-144	Carpentry I and Lab	8 s.h.
SDV-135	Job Seeking Skills	1 s.h.
SDV-210	Cooperative Education Internship	2 s.h.
		13 s.h.

Third Term (Spring Semester)

CON-145	Carpentry II and Lab	8 s.h.
ENG-701	Communications I	3 s.h.
SDV-210	Cooperative Education Internship	2 s.h.
		13 s.h.

Fourth Term (Summer)

CON-112	Blueprint Reading and Estimating	3 s.h.
CON-117	Building Codes and Standards	2 s.h.
MAT-763	Building Trades Math	3 s.h.
SDV-210	Cooperative Education Internship	2 s.h.
		10 s.h.

Total Program Hours **46 s.h**

Recommended Elective Masonry Courses

The Masonry courses listed below are designed to teach cross-craft masonry skills to construction workers. Masonry skills are a valuable and necessary additional skill in many North Iowa contractors' operations. Courses include working with block, brick, stone, and manufactured materials, learning to mix and handle mortar, and developing and practicing skills to build walls and other solid and veneered masonry structures.

MAS-111	Masonry Lab I	3 s.h.
MAS-211	Masonry Lab II	3 s.h.

Career Opportunities

Completion of this program prepares graduates to enter the construction industry as carpenters, with the basic skills to work in residential, commercial, or industrial construction. You will learn the skills necessary to perform work processes in:

- Concrete Framework
- Framing
- Exterior Finish
- Interior Finish
- Interior Systems

For specific information, contact NIACC at 641-423-1264 or 1-888-GO NIACC, and ask for the Industrial Division or Admissions.

Climate Control Technology

Climate Control (Residential/Commercial Heating and Air-Conditioning)

Today's Climate Control Technician installs, maintains, analyzes, and modifies heating and air-conditioning systems. The Climate Control curriculum provides opportunities to develop the skills necessary for entry into the HVAC (heating, ventilation, air-conditioning) industry.

The Climate Control curriculum allows the students to choose between completing a program in Climate Control Mechanics, which leads to a diploma with an emphasis in residential heating and air-conditioning or a program in Climate Control Technology, which leads to an Associate in Applied Science degree with an emphasis in commercial heating and air-conditioning. Both programs are designed around a common group of courses. A diploma will be awarded upon successful completion of the prescribed curriculum with a grade point average of 2.00 (C) or better. This recognition is granted to a person who has completed the first two terms of the Climate Control curriculum and SDV-135, Job Seeking Skills.

The Climate Control Mechanics diploma program is designed to provide graduates with the basic knowledge and skills necessary for installing and servicing residential heating and air-conditioning systems. Theory of operation, as well as installation and service techniques, for several types of residential heating and air-conditioning systems is covered.

The Climate Control Technology Program prepares students for entry into the commercial and industrial heating, ventilation, and air-conditioning industry.

The program does this by training the student in the following areas: designing, testing, troubleshooting, and servicing residential, commercial, institutional, and industrial heating, ventilation, and air-conditioning systems.

Entrance Advising

Due to the highly technical nature of this program and NIACC's commitment to giving students the best possible opportunity for success, students will be scheduled for advisement sessions with counselors and program personnel. In these sessions, the student's career plans, previous background, transcripts, test scores, life experiences, and motivation will aid in designing a positive education experience.

Career Opportunities

Completion of the diploma program prepares graduates to enter the Climate Control Technology degree program or to enter the following occupations:

- Residential Heating/Air-Conditioning Service Mechanic
- Heating/Air-Conditioning Installer
- Heating/Air-Conditioning Parts Salesperson

Completion of the degree program prepares graduates to enter the following occupations:

- Commercial Heating/Air-Conditioning Service Technician
- Heating/Air-Conditioning Lab Technician
- Heating/Air-Conditioning Sales Engineer
- Heating/Air-Conditioning Parts Manager
- Manufacturer's Field Service Representative

For specific information contact the North Iowa Career Center or the NIACC Industrial Division.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

ELT-115	Electronic Concepts	3 s.h.
ENG-701	Communications I	3 s.h.
HCR-115	Residential Heating Systems	4 s.h.
HCR-155	Troubleshooting Heating Systems	3 s.h.
MAT-770	Applied Math	2 s.h.
MAT-771	Applied Math II	2 s.h.
		17 s.h.

Second Term (Spring Semester)

HCR-205	Air-Conditioning Principles	2 s.h.
HCR-210	Residential Air-Conditioning Systems	4 s.h.
HCR-240	Troubleshooting Air-Conditioning Systems	3 s.h.
PHY-720	Career Physics	4 s.h.
		13 s.h.

Second Year**

Third Term (Fall Semester)

BCA-215	Computer Business Applications	3 s.h.
	OR BCA-101 Introduction to Computers and Information Systems (3 s.h.)	
HCR-150	Commercial Heating Systems	5 s.h.
HCR-510	Sheet Metal Fabrication	2 s.h.
HCR-705	Technical Graphics	2 s.h.
HCR-808	Advanced Control Systems	4 s.h.
		16 s.h.

Fourth Term (Spring Semester)

BUS-161	Human Relations	3 s.h.
ENG-702	Communications II	3 s.h.
HCR-505	Air Distribution	3 s.h.
HCR-235	Commercial Air-Conditioning Systems	5 s.h.
HCR-810	Energy Management	3 s.h.
SDV-135	Job Seeking Skills*	1 s.h.
		18 s.h.

Total Program Hours 64 s.h.

**The second year program (in its current form) will be phased out effective June 1, 2007.



Electromechanical Systems Technology

Electromechanical Systems Technology is an Associate in Applied Science Degree Program designed to prepare the graduate for immediate employment as electronic, electrical, and mechanical maintenance personnel in manufacturing settings.

Certifications

Students may earn recognition as a Certified Electronic Technician Associate Level (CETa) by the Electronic Technicians Association (ETA). To earn such recognition, the student must pass the National Certified Electronic Technician exam. The cost of the exam (\$ 60) is the student's responsibility.

Entrance Requirements

Students must either have completed Essentials of Math or higher OR score 16 or higher on ACT math OR have a COMPASS score at the Beginning Algebra level.

Self-Paced Courses

Several courses in the Electromechanical Systems Technology Program are offered in an instructor-supervised/student-paced format. See course descriptions for details concerning specific course status. Much of the instruction in these courses is computer-based using software available only in the Electromechanical Systems Technology Labs on campus. Students enrolled in such courses should expect to spend 25-30 hours in the Electromechanical Systems Technology Lab for each semester hour of the course. For example, ELT-382, Electronic Circuit Analysis is a 3-semester-hour course. The student enrolled in that course should expect to spend 75-90 hours (5-6 hours per week) in the Electromechanical Systems Technology Lab to complete the course. While a suggested schedule appears on this page, the use of instructor-supervised/student-paced course work allows the student much more flexibility in scheduling.

College Transfer Option

Through an articulation agreement with the University of Northern Iowa, graduates of the Electromechanical Systems Technology Program may continue their education by transferring to baccalaureate programs in such industrial technology fields as manufacturing, electromechanical systems, engineering technology, or supervision and management. Help of a NIACC counselor or program instructor is advised.



Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

BUS-161	Human Relations	3 s.h.
	OR PSY-111 Introduction to Psychology (3 s.h.)	
ELT-190	Introduction to Tech Computing & CAD	3 s.h.
ELT-382	Electronic Circuit Analysis	3 s.h.
ELT-790	Fluid Power	3 s.h.
ENG-701	Communications I	3 s.h.
	OR ENG-105 Composition I (3 s.h.)	
MAT-770	Applied Math	2 s.h.
MAT-771	Applied Math II	2 s.h.
	OR MAT-121 College Algebra (4 s.h.)	
		19 s.h.

Second Term (Spring Semester)

ELT-210	Motor Control Circuits	3 s.h.
ELT-550	Analog Devices	4 s.h.
ELT-309	Digital Circuits	3 s.h.
ENG-702	Communications II	3 s.h.
	OR ENG-106 Composition II (3 s.h.)	
		13 s.h.

Third Term (Summer)

ELT-895	Electromechanical Internship	2 s.h.
		2 s.h.

Second Year

Fourth Term (Fall Semester)

ELT-124	Advanced PLCs and System Integration	3 s.h.
ELT-133	Electric Motor Drives	2 s.h.
ELT-170	Introduction to PLC's	3 s.h.
ELT-734	Industrial Instrumentation	4 s.h.
PHY-162	College Physics I	4 s.h.
	OR PHY-106 Survey of Physics (4 s.h.)	
	OR CHM-122 Introduction to General Chemistry (4 s.h.)	
		16 s.h.

Fifth Term (Spring Semester)

ELT-710	Computer Automated Manufacturing	3 s.h.
ELT-745	Maintenance Shop Operations	3 s.h.
ELT-750	Facilities Maintenance	4 s.h.
PHY-172	College Physics II	4 s.h.
	OR PHY-106 Survey of Physics (4 s.h.)	
	OR CHM-122 Introduction to General Chemistry (4 s.h.)	
SDV-135	Job Seeking Skills	1 s.h.
		15 s.h.

Total Program Hours

65 s.h.

Career Opportunities

Completion of this program prepares graduates to enter the following occupations:

- Electromechanical Technician
- Industrial Maintenance Technician
- Electronics Technician
- Industrial Process Control Technician
- Instrumentation Technician
- Control Systems Technician
- Computer Automated Process Control Technician

For specific information contact the North Iowa Career Center or the NIACC Industrial Division.

General Machinist

General Machinist is a two-semester diploma program designed to provide in-depth study and considerable hands-on skills in the machine processing of a variety of metals. This one-year program provides the foundation for the Associate in Applied Science Program, Tool & Die Technology.

Students become proficient in the operation of manual mills, lathes, grinders, drills, and saws as they complete increasingly complex projects while holding tight tolerances. Various pieces of precision measuring equipment (optical comparator, coordinate measuring machine, etc.) are used to check quality. Additional work in blueprint reading, heat-treating, and computer numerical controlled (CNC) machining is required to complete the General Machinist Program.

Upon satisfactory completion of this program, students are awarded a NIACC diploma. Program graduates have the option to continue into the A.A.S. Tool and Die Technology Program or immediately begin employment in an area of machine shop or manufacturing facility producing a wide variety of machine parts.



Tool and Die Technology

Tool and Die Technology is a five-semester degree program which is a continuation of the General Machinist Diploma Program. The Tool and Die Technology Program builds upon the previous studies with an in-depth study of high-precision industrial dies and die components, progressive dies, and plastics industry molds. A portion of the program is devoted to producing computer-aided drawings (CAD) of molds and dies, and then using computer-aided manufacturing (CAM) software to generate computer numerical control (CNC) machine language. Students operate CNC machine tools to produce many of their second year projects.

Upon satisfactory completion of this program, students are awarded an Associate in Applied Science Degree. Program graduates are prepared to work in the "tool room" of area manufacturers or to work for a specialty tool and die shop producing dies and molds for a large variety of production machines in our area.

Entrance Advising

Due to the highly technical nature of this program and NIACC's commitment to giving students the best possible opportunity for success, students are scheduled for advisement sessions with counselors and/or program personnel. In these sessions, the student's career plans, previous background, transcripts, test scores, life experiences, and motivation aid in designing a positive educational experience.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

BCA-119	Computer Orientation.....	1 s.h.
ENG-701	Communications I	3 s.h.
MAT-770	Applied Math	2 s.h.
MAT-771	Applied Math II	2 s.h.
MFG-120	Machine Trade Print Reading I	1 s.h.
MFG-245	Machine Theory and Operations I	9 s.h.
		18 s.h.

Second Term (Spring Semester)

MFG-130	Machine Trade Print Reading II	1 s.h.
MFG-248	Machine Theory and Operations II	7 s.h.
MFG-302	CNC Fundamentals.....	3 s.h.
PHY-720	Career Physics.....	4 s.h.
		15 s.h.

Third Term (Summer)

MFG-108	Computer-Aided Drafting (CAD)	2 s.h.
MFG-110	3-D Modeling.....	2 s.h.
MFG-380	EDM Fundamentals	2 s.h.
MFG-423	Jig and Fixtures.....	5 s.h.
MFG-500	Statistical Process Control (SPC)	1 s.h.
		12 s.h.

Second Year

Fourth Term (Fall Semester)

BUS-161	Human Relations	3 s.h.
MFG-320	Computer-Aided Manufacturing (CAM).....	3 s.h.
MFG-408	Basic Die Making	8 s.h.
SDV-135	Job Seeking Skills.....	1 s.h.
WEL-334	Trade and Industry Welding.....	2 s.h.
		17 s.h.

Fifth Term (Spring Semester)

ENG-702	Communications II	3 s.h.
MFG-312	Advanced CNC	2 s.h.
MFG-459	Injection Mold Making	9 s.h.
MFG-460	Plastics Materials	1 s.h.
		15 s.h.

Total Program Hours **77 s.h.**

Career Opportunities

General Machinist

- Operate and set up CNC mills and lathes
- Maintenance work
- Operate and set up manual equipment

Tool and Die Technology

- Mold builder
- Operate/set up complex CNC equipment
- Tool maker
- Die maker
- CNC programmer
- Quality Control Inspector
- Gage maker
- Instrument maker
- CAD/CAM technician

Industrial Technology

The A.A.S. degree graduate in Industrial Technology provides a broad technical background in a variety of disciplines related to industry. Industrial technologists work with management teams, entry-level supervisors, and technicians in providing manufacturing process and production solutions to ensure the success of our industries. The broad-based programming further provides the student the mobility to move throughout a variety of industrial areas. Graduates of this program have the option of employment upon graduation or articulation of the program to a four-year institution.

Upon completion of the first year of the program, students may be awarded a NIACC diploma. To be awarded a diploma, students must successfully complete a 30-semester-hour program of study, to include English and Mathematics general education requirements.

Upon completion of the two-year curriculum with a grade point average of 2.00 (C), the student is awarded an Associate in Applied Science in Industrial Technology. Students who know they wish to pursue a four-year degree and want to meet general education requirements of transfer institutions should pursue the A.A. degree. This will necessitate a slightly different curriculum.

The schedule shown on this page is a suggested program of study. Students may choose to change the sequence of courses to suit their needs. Please consult with a NIACC Counselor to develop a program of study that works for you.

Career Opportunities

The intent of this program is to provide a flexible framework targeted primarily to individuals interested in or already employed in the manufacturing field. Many individuals taking this course work are focusing their efforts toward employment in the area of Industrial Maintenance and Repair. Others pursue careers in direct manufacturing.

The program enables the individual to tailor a diploma and/or associate degree program based on his/her skill needs and the needs of the company.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

CON-107	Construction Safety.....	2 s.h.
ENG-102	Composition and Speech I.....	4 s.h.
	OR ENG-701 (3 s.h.) and ENG-702 (3 s.h.)	
MAT-121	College Algebra.....	4 s.h.
	OR MAT-770 (2 s.h.) and MAT-771 (2 s.h.)	
MFG-108	Computer-Aided Drafting	2 s.h.
WEL-334	Trade and Industry Welding.....	2 s.h.
		14 s.h.

Second Term (Spring Semester)

ELT-115	Electronic Concepts	3 s.h.
ELT-790	Fluid Power	3 s.h.
MFG-195	Manufacturing Processes I	2 s.h.
PHY-720	Career Physics	4 s.h.
	OR PHY-162 (4 s.h.)	
		12 s.h.

Second Year

Third Term (Fall Semester)

Industrial Technology Electives**	9 s.h.
Electives	8 s.h.
	17 s.h.

Fourth Term (Spring Semester)

Industrial Technology Electives**	9 s.h.
Electives	8 s.h.
	17 s.h.

Total Program Hours 60-62 s.h.

** Industrial Technology Electives to be taken from existing programs in NIACC's Industrial Technology Division. Students must meet existing course prerequisites. Students may also elect a specialization by taking all electives from a single program. Specializations include:

- Electromechanical Systems Technology
- Tool & Die Technology
- Climate Control Technology
- Building Trades
- Automotive Technology

Students must have approval of program faculty for specializations.

Welding - Evening Program

The Welding Program is designed for industry and individuals seeking personal skill development. Students are first exposed to theory and demonstrations, along with laboratory experiences. This is followed with an open lab to allow students additional laboratory experience in order to achieve the program's outlined competencies. Upon satisfactory completion of the prescribed curriculum with an average grade point of 2.00 (C), the student is awarded a certificate.



Required Courses/Suggested Schedule

A student may take the program in either order.

First Year

First Term

WEL-110	Welding Blueprint Reading	2 s.h.
WEL-138	Oxyacetylene Welding/Gas Tungsten Arc Welding	3 s.h. 5 s.h.

Second Term (Spring Semester)

WEL-112	Welding Blueprint Reading Advanced.....	2 s.h.
WEL-153	Shielded Metal & Gas Metal Arc Welding (SMAW and GMAW)	3 s.h. 5 s.h.

Total Program Hours **10 s.h.**

Career Opportunities

Those currently involved in the following areas will benefit from the program:

- Maintenance
- Farm or Ag Related
- Automotive
- Construction
- General Industrial
- Hobbies or Backyard

Family and Human Services

Transfer Degree

Diploma

Early Childhood Education

Family
& Human
Service
Programs

Human Services

FAMILY AND HUMAN SERVICES

John Schmaltz, Division Chair
 (641)422-4323
 schmajoh@niacc.edu

Early Childhood Education - Diploma

(Pending approval by the Iowa Department of Education)

The Early Childhood Education Diploma program is designed to provide an introduction to the physical, social, emotional, and intellectual development of children from birth through age 8. This program helps prepare students for a rewarding career nurturing the growth and development of young children. Students learn about child development, the child care field, and appropriate practices while working with children. In addition, this program addresses the competencies and functional areas necessary for students to begin the assessment and testing process for the Child Development Associate National Credential administered by the Council for Early Childhood Professional Recognition.

Students can enter employment in an early childhood area upon completion of the program. Additionally, students have the option to continue their education and earn an associate and/or bachelor degree.

Upon satisfactory completion of the prescribed curriculum (at least 30 semester hours) with an average grade point of 2.00 (C), the student is awarded a diploma.

Required Courses

ECE-103	Introduction to Early Childhood Education.....	3 s.h.
ECE-131	Home and School Relationships in Early Childhood ...	3 s.h.
ECE-133	Child Health, Safety, and Nutrition	3 s.h.
ECE-150	Curriculum for Young Children	3 s.h.
ECE-176	Child Development.....	3 s.h.
EDU-235	Children's Literature	3 s.h.
ECE-243	Early Childhood Guidance	3 s.h.
EDU-246	Educational Measurement & Evaluation	3 s.h.

Suggested Electives - 6 s.h. needed

ART-102	Art for Elementary Education	3 s.h.
BIO-123	Inquiry Into Life Science	3 s.h.
EDU-216	Introduction to Teaching.....	3 s.h.
MAT-112	Math for Elementary Teachers I.....	3 s.h.
MAT-113	Math for Elementary Teachers II.....	3 s.h.
PSY-223	Child and Adolescent Psychology.....	3 s.h.
PSY-281	Educational Psychology	3 s.h.

Career Opportunities

Successful graduates can find job opportunities in the following occupational areas:

- Child Care Centers
- Preschools
- In-home Day Care Centers

Human Services

(Pending approval by the Iowa Department of Education)



Students interested in careers in Human Services may graduate from NIACC with an Associate of Arts Degree with a Human Services certificate. The Human Services program prepares students for entry-level jobs or for transfer to a four-year degree program. The program emphasizes skills needed in working with consumers such as interviewing, completing an assessment of individual/family needs, making appropriate referrals, and assisting with counseling. By the end of the program, students will be able to interact effectively with consumers in a human services agency such as public/private social services agencies, treatment centers, group homes, supported living and work programs, and state or county departments of social services.

Upon completion of the two-year curriculum with a grade point average of 2.00 (C), the student is awarded an Associate in Arts Degree with a Human Services certificate.

Career Opportunities

- Social Work Associate
- Case Aide
- Parent-skill Worker
- Family Support Advocate
- Residential Treatment Associate
- Long-term Care Facility Associate

General Education Core Requirements

ENG-102	Composition and Speech I.....	4 s.h.
ENG-103	Composition and Speech II.....	4 s.h.
PSY-111	Introduction to Psychology.....	3 s.h.
PSY-121	Developmental Psychology.....	3 s.h.
SOC-110	Introduction to Sociology.....	3 s.h.
SOC-115	Social Problems.....	3 s.h.
SOC-120	Marriage and Family.....	3 s.h.
	Biological Sciences, Physical Sciences, Health and Nutrition, or Nutrition.....	3-5 s.h.
	Humanities Electives.....	8 s.h.
	Mathematics*.....	3-4 s.h.
	Additional general education course.....	0-3 s.h.

*General Education courses must total at least 40 semester hours to meet A.A. degree requirements.

Human Services Core Requirements

BCA-215	Computer Business Applications.....	3 s.h.
HSV-152	Introduction to Counseling.....	3 s.h.
HSV-153	Professional Ethics.....	3 s.h.
PSY-223	Child and Adolescent Psychology.....	3 s.h.
	OR ECE-176 Child Development (3 s.h.)	
SDV-210	Cooperative Education Internship.....	1 s.h.
	OR SOC-949A Special Topics in Social Science (1 s.h.)	
SOC-150	Introduction to Human Services.....	3 s.h.
SOC-215	Prime for Life.....	1 s.h.



School Partnerships

ARTICULATION

POST SECONDARY ENROLLMENT OPTIONS

ON SITE CLASSES

CAREER READINESS COUNCIL

COLLEGE TECH PREP AND TECH PREP ACADEMIES



SCHOOL PARTNERSHIPS

NIACC is currently developing cooperative programs with high schools in our service area to identify career program prerequisites, to reward students for previous learning experiences, to provide a challenging educational experience for each student, and to ensure a smoother transition for students into postsecondary degree programs.

Articulation

Articulation is a process whereby students can receive tuition-free college credits toward graduation for successfully completing certain high school career and technical courses identified to have college-level material. NIACC faculty members meet with high school teachers to carefully compare their course offerings and identify areas of content overlap. The result is a savings of time and financial resources for the student interested in a time-shortened degree or increased competence and employment potential for the student interested in an advanced skills degree. Contact your counselor to obtain a list of high school courses that articulate into NIACC Career programs.

Post Secondary Enrollment Options (PSEO)

The Post Secondary Enrollment Options Act provides high school juniors and seniors with the opportunity to take college courses prior to high school graduation. The Act has a dual purpose: 1) to provide a constant challenge for students by promoting rigorous educational pursuits; and 2) to provide a wider variety of options for students. Students may earn high school and college credit for courses taken. Post secondary credits earned are transferable to other colleges and universities depending on degree requirements at that institution. Contact your high school counselor for further information on Post Secondary Enrollment Options.

On Site Contracted Classes

Many school districts offer NIACC classes taught at the high school during the regular school day. High school instructors, who meet NIACC teaching qualifications, teach the courses. NIACC textbooks and course outlines are utilized. The result is a savings of time and resources for the student. Contact your high school counselor for a list of NIACC courses taught in your district.

Career Readiness Council

The Career Readiness Council—a group comprised of representatives from high schools, Workforce Development, business and industry, labor, the Area Education Agency, the Transition Advisory board, and NIACC—has established career education goals for Area 267 - Clear Lake Region:

- Develop and enhance shared programs.
- Support local districts in their comprehensive school improvement goals.
- Strengthen career counseling and career education programs

- Foster business, industry, and professional connections for our students, teachers, and employers.
- Meet increased needs associated with diversity and globalization.

As a member of the Career Readiness Council, NIACC collaborates with the representatives to implement these broad-based career education goals.

Career Academies

Career Academies are a partnership between secondary schools, post secondary institutions, business and industry, and other community groups that focus on providing students with the skills necessary to perform in today's workforce. A major component of the program is an applied (hands-on) curriculum that recognizes the widely varying learning styles of students. It involves the creation of a carefully designed sequence of high school and college courses leading to an associate degree in a number of fields. Student career exploration and planning, along with a parental community awareness of workforce needs and employment opportunities, are vital components of a Career Academy program.

In addition to the on-campus programs, Career Academies are located across North Iowa. Students from surrounding high schools travel to the Career Academy where they complete up to one year of college credit during their senior year.

NIACC has established Career Academies at the following sites:

Automotive Service Technology - NIACC Main Campus

Health Careers - West Hancock High School and Hancock County Memorial Hospital; Belmond-Klemme High School and Belmond Medical Center.

Information Technology - Mason City High School and Garner-Hayfield High School

Business and Information Technology - Charles City High School and Hampton-Dumont High School

Teacher Academy - Forest City High School

Tool & Die Technology - Murphy Manufacturing Technology Center on the NIACC main campus

For information about the Career Academy programs available at your high school, contact your high school counselor or contact the NIACC School Partnership Department at (641) 422-4175 or 1-888-GO NIACC, Ext. 4175. E-mail: byrmejos@niacc.edu, degrofra@niacc.edu or ostrajea@niacc.edu.



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.

Division Chairs:

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Larry Eichmeier, Agriculture
(641) 422-4225

Patrick Gallart, Natural Science
(641) 422-4100

John Groninga, Communication
(641) 422-4228

Donna Orton, Health
(641) 422-4216

Kathy Rogotzke, Mathematics
(641) 422-4154

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

John Sjolinder, Industrial
(641) 422-4202

Transfer Relations
(641) 422-4205



Accounting

Grand View College

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

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.....	3 s.h.*
Two-Dimensional Design	3 s.h.*
Painting I and II.....	6 s.h.*
Introduction to Computer-Aided Graphic Design.....	3 s.h.*
Computer-Aided Images.....	3 s.h.*

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

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

Simpson College

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

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

Upper Iowa University

RESIDENTIAL CAMPUS

Students should consider taking the following courses to meet requirements.

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

Art Education**Upper Iowa University**

RESIDENTIAL CAMPUS

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

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

Athletic Trainer**Iowa State University**

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

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

Simpson College

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

Kinesiology	4 s.h.
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Biology**Grand View College**

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

College Algebra	4 s.h.
Environmental Science	3 s.h.
Microbiology	4 s.h.
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	6 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.
Human Biology*	*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.

* Human Biology, 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.
General Insurance	3 s.h.
Business Statistics	3 s.h.
Calculus (not for Accounting).....	3 s.h.
Principles of Marketing	3 s.h.
Introduction to Accounting or Principles of Accounting I.....	3 s.h.
Principles of Accounting II.....	6 s.h.
Managing the Entrepreneurial Venture OR	
Seminar in Entrepreneurship	3 s.h.
Managing Human Resources	3 s.h.
On-The-Job Training	3 s.h.

University of Iowa (Min. 2.75 GPA)

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

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

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

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

The University of Iowa College of Business will require second level proficiency in a single foreign language to graduate, 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

Finite Math	3 s.h.
Business Statistics	3 s.h.

BUSINESS TEACHING MAJOR

Introduction to Teaching.....	3 s.h.
Developmental Psychology.....	3 s.h.
Finite Math	3 s.h.
Business Statistics	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.
Operating Systems.....	3 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.
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For specific Drake curriculum (general education) requirements, students should access the Drake curriculum web site at <http://www.drake.edu/dc/> or contact the Office of Admissions 1-800-44-DRAKE, ext. 3181. It is recommended that NIACC students save their NIACC course syllabi for in-depth review for Drake curriculum outcomes fulfillment upon transfer.

Grand View College

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

Engineering Problems with FORTRAN.....	3 s.h.
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 and II	8 s.h.
Business Statistics	3 s.h.

COMPUTER INFORMATION SYSTEMS

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

Business Statistics	3 s.h.
Calculus I and II	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.
Introduction to Accounting or	
Principles of Accounting I	3 s.h.

University of Northern Iowa

COMPUTER SCIENCE

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

B.A. Degree: (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 II8 s.h.
- Select two of the following:
- Calculus I
- Calculus II
- Introduction to Statistics7-8 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 II8 s.h.
- American National Government OR
- American State and Local Government3 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 Problems3 s.h.
- American Government.....3 s.h.
- Criminal Law3 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 Sociology3 s.h.
- Social Problems3 s.h.
- Computer Business Applications3 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 Statistics3 s.h.
 - Introduction to Ethics3 s.h.

WITH JUSTICE CONCENTRATION:

- Criminal Law3 s.h.
- Social Problems3 s.h.
- Criminal Investigation.....3 s.h.

WITH ADMINISTRATION CONCENTRATION:

- Introduction to Accounting or
- Principles of Accounting I3 s.h.
- Introduction to Business or
- Principles of Management.....3 s.h.
- Managing Human Resources3 s.h.
- Criminal Investigation.....3 s.h.

WITH CORRECTIONS CONCENTRATION:

- Social Problems3 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 Sociology3 s.h.
- Social Problems3 s.h.
- Criminal Law3 s.h.

Dentistry

University of Iowa

Each applicant for the College of Dentistry at the University of Iowa must present three years of credit comprising not less than 90 semester hours of work. Preference for admission is given to students who have completed a standard baccalaureate degree or who are pursuing a combined program in which they will earn the baccalaureate degree while completing 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 II8 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 Sylvan Testing Centers.

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

Education

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

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

Buena Vista University

ELEMENTARY EDUCATION

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	3 s.h.
*Biology	3 s.h.
Composition & Speech I and II.....	8 s.h.
Mathematics for Elementary Teachers I and II.....	6 s.h.
Literature course	3 s.h.
Introduction to Teaching.....	3 s.h.
Educational Media and Classroom Computing Techniques	3 s.h.
Educational Psychology and Developmental Psychology OR Child and Adolescent Psychology.....	3 s.h.

* Must include one lab.

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

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

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

Endorsements available in Reading, Pre-K, Middle School and Instructional Strategist I.

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	3 s.h.
Composition & Speech I and II.....	8 s.h.
Educational Psychology and Developmental Psychology OR Child and Adolescent Psychology.....	3 s.h.
Introduction to Teaching.....	3 s.h.
Educational Media and Classroom Computing Techniques	3 s.h.

1. Secondary Education requires major in content area.
2. Students seeking admission into the Teacher Education Program at Buena Vista University need a minimum GPA of 2.50. Students are also required to take the PRAXIS I (pre-professional skills test) and receive minimum scores of 171 (Math), 173 (Reading), and 172 (Writing). The PRAXIS may be taken before transferring to Buena Vista University.
3. All Incompletes must be completed prior to beginning student teaching.
4. Communications I and II (8 s.h.) waives public speaking course requirement.

Drake University

EDUCATION

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

Both Elementary and Secondary Education majors complete the following courses:

Composition & Speech I and II.....	8 s.h.
Mathematics for Elementary Teachers I and II (elementary only).....	6 s.h.
American History.....	6 s.h.
American Government.....	3 s.h.
Public Speaking	2 s.h.
Inquiry Into Life Science	3 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.
Educational Measurement & Evaluation	2 s.h.
Ed Media & Classroom Computing Techniques	3 s.h.
Including Exceptional Students.....	3 s.h.

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

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

Grand View College

ELEMENTARY EDUCATION

Introduction to Psychology.....	3 s.h.
Educational Psychology.....	3 s.h.
Developmental Psychology.....	3 s.h.
Art Appreciation.....	3 s.h.
Art in the Elementary School.....	3 s.h.
Children's Literature.....	3 s.h.
Mathematics for Elementary Teachers I and II.....	6 s.h.
College Algebra.....	4 s.h.
Introduction to Teaching.....	3 s.h.
Educational Measurement and Evaluation.....	2 s.h.
Including Exceptional Students.....	3 s.h.
Educational Media.....	3 s.h.

ELEMENTARY/SECONDARY ART EDUCATION

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

SECONDARY EDUCATION/BUSINESS ADMINISTRATION

Introduction to Psychology.....	3 s.h.
Educational Psychology.....	3 s.h.
Developmental Psychology.....	3 s.h.
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.
Educational Measurement and Evaluation.....	2 s.h.
Including Exceptional Students.....	3 s.h.
Educational Media and Classroom Computing Techniques.....	3 s.h.

Iowa State University

HIGH SCHOOL TEACHER EDUCATION (SECONDARY TEACHER EDUCATION)
Students entering ISU for secondary education licensure are admitted into

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

ELEMENTARY EDUCATION

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

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

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

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

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

Minnesota State University - Mankato

SECONDARY EDUCATION (High School Teaching)

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

ELEMENTARY EDUCATION

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

of the requirements for elementary education at Minnesota State University, Mankato:

Composition & Speech I and II.....	8 s.h.
Math for Liberal Arts.....	3 s.h.
Mathematics for Elementary Teachers I and II.....	6 s.h.
Inquiry Into Life Science.....	3 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.
Introduction to Acting.....	3 s.h.

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

Simpson College

EDUCATION

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

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

EDUCATION

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

Elementary Only:

Art in the Elementary School.....	3 s.h.
Math for Elementary Teachers I and II.....	6 s.h.
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.
<u>One of the following:</u>	
Inquiry Into Life Science.....	3 s.h.
Introductory Biology and Lab.....	3 s.h.
Environmental Science.....	3 s.h.
Biology I.....	4 s.h.
Biology II.....	4 s.h.
Human Biology.....	4 s.h.

AND

One of the following:

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

College Physics I.....	4 s.h.
Classical Physics I.....	5 s.h.

University of Iowa

EDUCATION

Students planning to transfer into the College of Education at The University of Iowa need a minimum of a 2.70 cumulative GPA and at least 30 semester hours of credit (40 semester hours beginning October 2006). Admission is highly competitive and is based on an achievement profile which includes: GPA; PRAXIS I (minimum 522 composite, with no sub score lower than 170). In addition, students should have completed an approved 10-hour volunteer practicum.

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

ELEMENTARY AND SECONDARY EDUCATION

NIACC students should complete:

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

ADDITIONAL SECONDARY EDUCATION REQUIREMENTS

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

APPLICATION DEADLINES:

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

University of Northern Iowa

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

ELEMENTARY EDUCATION

Elementary Education * K-6 should consider:

Art in the Elementary School.....	3 s.h.
Composition & Speech I and II.....	8 s.h.
Children's Literature.....	3 s.h.
Mathematics for Elementary Teachers I and II.....	6 s.h.
Inquiry Into Life Science.....	3 s.h.
Biology and Physical Science.....	8 s.h.
One course in Life Science and one in Physical Science (at least one must have a lab, if A.A. is not earned)	
Child and Adolescent Psychology (not required).....	3 s.h.
Developmental Psychology.....	3 s.h.
Introduction to Teaching.....	3 s.h.
Ed Media/Classroom Computer Techniques.....	3 s.h.
Educational Psychology.....	3 s.h.
Ed Measurement and Evaluation.....	2 s.h.
Including the Exceptional Student.....	2 s.h.

EARLY CHILDHOOD EDUCATION

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

- Mathematics for Elementary Teachers I and II6 s.h.
- Educational Media and Classroom Computing Techniques3 s.h.
- Children’s Literature3 s.h.
- Composition & Speech I and II8 s.h.
- Introduction to Teaching3 s.h.
- Developmental Psychology3 s.h.
- Educational Psychology3 s.h.
- Ed Measurement & Evaluation3 s.h.
- Including the Exceptional Student3 s.h.
- Nutrition3 s.h.

- Including the Exceptional Student3 s.h.
- Educational Media3 s.h.

Elementary Education majors may also take:

- Children’s Literature3 s.h.

Prekindergarten-Grade 3 majors may also take:

- Children’s Literature3 s.h.
- Introduction to Early Childhood3 s.h.
- Early Childhood Guidance3 s.h.

TECHNOLOGY EDUCATION AND TRAINING

Integrated Technology Education majors should consider:

- Composition & Speech I and II8 s.h.
- College Physics I4 s.h.
- Introduction to Teaching3 s.h.
- Developmental Psychology
 - OR Child & Adolescent Psychology3 s.h.
- Educational Psychology3 s.h.
- Including the Exceptional Student2 s.h.
- Educational Measurement & Evaluation2 s.h.

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.

SECONDARY EDUCATION

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

- Educational Media and Classroom Computing Techniques3 s.h.
- Introduction to Teaching3 s.h.
- Developmental Psychology
 - OR Child & Adolescent Psychology3 s.h.
- Educational Psychology3 s.h.
- Educational Measurement & Evaluation2 s.h.
- Including the Exceptional Student2 s.h.

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 course4 s.h.
- *Inquiry Into Life Science course3 s.h.
- OR *Biological Science course4 s.h.
- Public Speaking2 s.h.
- Developmental Psychology3 s.h.
- Introduction to Teaching3 s.h.
- Including Exceptional Students3 s.h.
- Educational Media3 s.h.
- Children’s Literature (Elementary Education only)3 s.h.
- Educational Psychology3 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.

* Only Elementary Education needs two sciences.

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 Humanities6 s.h.
- Communication9 s.h.
(Composition I, Composition II, and Speech)
- Mathematics3 s.h.
(Math for Liberal Arts)
- Computer Skills3 s.h.
(Introduction to Computers and Information Systems)
- Natural Science6 s.h.
(Inquiry Into Life Science or Biology - 3 s.h. and Physical Science - 3 s.h.)
- Social Science6 s.h.
(History, Political Science, Economics or Sociology - 3 s.h. and Psychology - 3 s.h.)

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

SCIENCE CONCENTRATION

- Physical Science course4 s.h.
- Biological Science course4 s.h.
- One Additional Lab Science4 s.h.

MATHEMATICS CONCENTRATION

- Intermediate Algebra4 s.h.
- College Algebra4 s.h.
- Calculus I4 s.h.

SPANISH CONCENTRATION

Complete at least 12 credits from the following:

- Elementary Spanish I and II8 s.h.
- Intermediate Spanish I and II6 s.h.
- Advanced Spanish I and II6 s.h.

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

THEATRE CONCENTRATION

- Introduction to Theatre, TV, Film3 s.h.
- Acting I3 s.h.

An additional course and practicums to be completed at Waldorf College.

EDUCATION

- Developmental Psychology3 s.h.
- Educational Psychology3 s.h.

COACHING AUTHORIZATION/ENDORSEMENT

Care and Prevention of Athletic Injuries	2 s.h.
Coaching Ethics Techniques and Theory	1 s.h.
Introduction to Anatomy and Physiology for Coaching	1 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.
Educational Media and Classroom Computing Techniques	3 s.h.
Composition & Speech I and II	8 s.h.
Children's Literature	3 s.h.
Introductory Biology AND	3 s.h.
Introductory Biology Laboratory	1 s.h.
OR Inquiry Into Life Science	3 s.h.
Introduction to Psychology	3 s.h.
Developmental Psychology	3 s.h.
Public Speaking	2 s.h.

SECONDARY EDUCATION

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

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

Other Colleges and Universities

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

Engineering**Iowa State University**

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

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

Composition & Speech I and II	8 s.h.
Calculus I, II, and III	12 s.h.
Differential Equations with Laplace Transforms	3 s.h.
General Chemistry	5-10 s.h.
Classical Physics	5-10 s.h.
Orientation to Engineering	0 s.h.
Engineering Problems with FORTRAN	3 s.h.
Socio-Humanistic electives	16-18 s.h.

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

Engineering Graphics and Design	3 s.h.
Statics for Engineering	3 s.h.
Mechanics of Materials	3 s.h.
Organic Chemistry I and II	5-10 s.h.

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

Minnesota State University - Mankato

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

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

Composition I	3 s.h.
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.

University of Iowa

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

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

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

Composition and Speech I and II	8 s.h.
Calculus I, II, and III.....	12 s.h.
Differential Equations with Laplace Transforms.....	3 s.h.
General Chemistry.....	5-10 s.h.
Classical Physics	5-10 s.h.
Engineering Graphics and Design.....	3 s.h.
Engineering Problems with FORTRAN.....	3 s.h.
Statics for Engineering.....	3 s.h.
Social Sciences/Humanities.....	9 s.h.

(www.engineering.uiowa.edu/records)

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

Mechanics of Materials	3 s.h.
Organic Chemistry I and II.....	5-10 s.h.

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

English

Waldorf College

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

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

Environmental Science/Environmental Policy

Drake University

An interdisciplinary program, this 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.
Digital Illustration.....	3 s.h.
2-D Design.....	3 s.h.

History

Waldorf College

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

ALL HISTORY MAJORS

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.....	3 s.h.
Western Civilization: Early Modern to Present.....	3 s.h.

HISTORY - POLITICAL SCIENCE MAJOR

Principles of Macroeconomics.....	3 s.h.
Western Civilization: Ancient to Early Modern.....	3 s.h.
Western Civilization: Early Modern to Present.....	3 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.....	3 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 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
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, 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-156 Introduction to Statistics*
MAT-210 Calculus I*
MAT-216 Calculus II*
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-734 Industrial Instrumentation
ELT-790 Fluid Power
HCR-810 Energy Management
NET-157 Network Design I
NET-158 Network Design II
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

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

Transferable NIACC Courses:

EDU-216 Introduction to Teaching
PSY-110 Developmental Psychology
PSY-281 Educational Psychology
EDU-242 Educational Measurement and Evaluation
EDU-246 Including Exceptional Students

MANUFACTURING TECHNOLOGY

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

Transferable NIACC Courses:

- 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 teach 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.

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.

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.

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/Undecided

Associate in Arts — purpose of the degree includes:

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

Requirements for the degree follow:

1. Completion of sixty (60) semester hours of work consisting of courses in which the principal design is for a baccalaureate program.
2. One half of the required semester hours must be completed in residence at North Iowa Area Community College including 15 of the last 30 semester hours.
3. A minimum cumulative grade point average of 2.00 (C). Includes transfer work from other institutions.
4. Completion of the following general education core with a minimum of 40 semester hours.
 - a. Composition and Speech.....8 s.h.
This requirement can be satisfied by baccalaureate-oriented communication or speech courses with a minimum of two courses in English composition.
 - b. Social Sciences8 s.h.
 - c. Humanities8 s.h.
 - d. Natural Science/Mathematics8 s.h.
Must include one math and one science course
 - e. Distributed Requirement8 s.h.
To be taken from among the four divisions above.

Marketing

Simpson College

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

Principles of Microeconomics	3 s.h.
Business 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.

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.....	16 s.h.
Applied Music.....	4-8 s.h.
Choir and/or Band.....	4-8 s.h.
Western Civilization.....	8 s.h.
Math/Science.....	8 s.h.
American Government.....	3 s.h.
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.....	4 s.h.
Music Theory II.....	4 s.h.
Music Theory III.....	4 s.h.
Music Theory IV.....	4 s.h.
Applied Music Piano.....	1-2 s.h.
Applied Music Voice.....	1-2 s.h.
Applied Music Instrumental.....	1-2 s.h.
Concert Chorus.....	1-4 s.h.
Band.....	1-4 s.h.
Jazz Band.....	1-4 s.h.

Waldorf College

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

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

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

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

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

University of Iowa

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

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

Composition & Speech I and II.....	8 s.h.
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.

A minimum GPA of 2.70 is required to apply for admission. Admission deadlines are January 15 for summer (R.N. program only), April 1 for fall, and October 1 for spring. Admission is highly competitive.

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

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

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

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

Occupational Therapy

St. Ambrose University

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

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.

All professional-program applicants must complete the application offered by the Pharmacy College Application Service (PharmCAS), which is only available at www.PharmCAS.org. Drake's application deadline is February 1, 2007, and early application, preferably in the fall, is strongly recommended. Applicants must sit for the PCAT no later than January 2007 and have the score submitted directly to PharmCAS at code 104. A minimum cumulative grade point average of 3.0 from all institutions attended and a minimum PCAT score at the 50th percentile, which is a raw score of approximately 200, are required for admission consideration. The College of Pharmacy and Health Services will select and invite qualified applicants to interview for a place in the class.

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.

University of Iowa

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

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

Biology I and II	8 s.h.
Composition & Speech I and II	8 s.h.
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.
Developmental Psychology	3 s.h.
Psychology	3 s.h.
American History or American Government	3 s.h.
Care and Prevention of Athletic Injuries	2 s.h.
Educational Media and Classroom Computing Techniques	3 s.h.
Health and Nutrition	3 s.h.
Humanities Elective(s)	8 s.h.
Educational Psychology	3 s.h.

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

Iowa State University

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

GENERAL EDUCATION

Anatomy and Physiology	4 s.h.
Introduction to Computers and Information Systems (non-teacher ed only)	3 s.h.
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.
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 Human Biology OR Anatomy and Physiology	8 s.h.

Upper Iowa University**RESIDENTIAL CAMPUS**

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

FITNESS MAJOR

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

SPORTS SCIENCE MAJOR

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**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.
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**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	10 s.h.
Precalculus	4 s.h.
Physics.....	8 s.h.
Foreign Language.....	0-16 s.h.
Biology I and II.....	8 s.h.

General education to complete Associate in Arts Degree.

Physician Assistant**University of Iowa**

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

Composition & Speech I and II.....	8 s.h.
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:

Finite Math OR	
Intermediate Algebra.....	3-4 s.h.
Introduction to Psychology.....	3 s.h.
Developmental Psychology.....	3 s.h.
Child and Adolescent Psychology (elective).....	3 s.h.
Introductory Biology I and Lab.....	4 s.h.
Composition & Speech I and II.....	8 s.h.

Complete additional courses to satisfy A.A. Degree.

Upper Iowa University

RESIDENTIAL CAMPUS

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

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

Public Relations

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

Radiology

(Four-Year Degree)

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

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

Philosophy	3 s.h.
College Physics	8 s.h.
Chemistry.....	8 s.h.
Social Science Elective(s)	6 s.h.

Recreation

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

Composition & Speech I and II	8 s.h.
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 Media and Classroom Computing Techniques	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.
Newswriting & 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.....	3 s.h.
2-D Design.....	3 s.h.
Encounters in Humanities.....	2 s.h.
Art Appreciation.....	3 s.h.
Ceramics.....	3 s.h.
Graphic Design.....	3 s.h.
Painting I and II.....	6 s.h.
Digital Illustration.....	3 s.h.

Wellness

Waldorf College

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

Nutrition.....	3 s.h.
Anatomy and Physiology I.....	4 s.h.
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 Exceptional Children.....	3 s.h.
Educational Media.....	3 s.h.

Online Courses Leading to an Associate Degree

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

Degree Requirement	Semester Hours
Communication	8 s.h.
<i>Composition I (ENG-105)</i>	3 s.h.
<i>Composition II (ENG-106)</i>	3 s.h.
<i>Public Speaking (SPC-111)</i>	2 s.h.
Humanities	8 s.h.
<i>Art History I (ART-203)</i>	3 s.h.
<i>Art History II (ART-204)</i>	3 s.h.
<i>U.S. History to 1877 (HIS-151)</i>	3 s.h.
<i>U.S. History Since 1877 (HIS-152)</i>	3 s.h.
<i>Poetry/Drama (LIT-170)</i>	3 s.h.
<i>Short Story/Novel (LIT-160)</i>	3 s.h.
Natural Science/Mathematics	8 s.h.
<i>Introductory Biology (BIO-102)</i>	3 s.h.
<i>Nutrition (BIO-151)</i>	3 s.h.
<i>Introduction to General Chemistry (CHM-122)</i>	4 s.h.
<i>Math for Liberal Arts (MAT-110)</i>	3 s.h.
<i>Introduction to Statistics (MAT-156)</i>	3 s.h.
Social Science	8 s.h.
<i>Personal Finance (ECN-115)</i>	3 s.h.
<i>Principles of Macroeconomics (ECN-120)*</i>	3 s.h.
<i>Principles of Microeconomics (ECN-130)*</i>	3 s.h.
<i>American National Government (POL-111)*</i>	3 s.h.
<i>International Relations (POL-121)</i>	3 s.h.
<i>Introduction to Psychology (PSY-111)</i>	3 s.h.
<i>Developmental Psychology (PSY-121)</i>	3 s.h.
Distributed Requirement Choose from courses above (under Communication, Humanities, Natural Science/ Mathematics, and Social Sciences)	8 s.h.
Electives	
<i>Cultural Anthropology (ANT-105)</i>	3 s.h.
<i>Principles of Accounting I (ACC-121)</i>	3 s.h.
<i>Principles of Accounting II (ACC-122)</i>	3 s.h.
<i>Introduction to Keyboarding (ADM-105)*</i>	1 s.h.
<i>Keyboarding Skill Development (ADM-108)*</i>	1 s.h.
<i>Computer Literacy (BCA-100)</i>	1 s.h.
<i>Introduction to Computers and Information Systems (BCA-101)</i>	2 s.h.
<i>Management Information Systems (BCA-103)</i>	3 s.h.
<i>Basic Word Processing (BCA-129)</i>	2 s.h.
<i>Electronic Spreadsheets (BCA-152)</i>	3 s.h.
<i>Microsoft Access (BCA-163)</i>	1 s.h.
<i>Personal Information Management (BCA-170)</i>	2 s.h.

Degree Requirement	Semester Hours
<i>Basic Presentation Software (BCA-174)</i>	1 s.h.
<i>Introduction to Microsoft Publisher 2002 (BCA-182)</i>	1 s.h.
<i>Computer Business Applications (BCA-215)</i>	3 s.h.
<i>Learn to Buy and Sell on e-Bay (BCA-270)</i>	1 s.h.
<i>Introduction to QuickBooks (BCA-280)</i>	1 s.h.
<i>Business Communications (BUS-121)</i>	3 s.h.
<i>Introduction to E-Commerce (BUS-151)</i>	3 s.h.
<i>Internet Law (BUS-158)</i>	3 s.h.
<i>Human Relations (BUS-161)</i>	3 s.h.
<i>Business Law I (BUS-185)</i>	3 s.h.
<i>Business Law II (BUS-186)</i>	3 s.h.
<i>Introduction to Insurance (BUS-260)</i>	3 s.h.
<i>Property and Casualty Insurance (BUS-266)</i>	3 s.h.
<i>Life, Health, and Disability Insurance (BUS-267)</i>	3 s.h.
<i>Media Experience (CIS-210)</i>	3 s.h.
<i>Introduction to Early Childhood Education (ECE-103)</i>	3 s.h.
<i>Home and School Relationships in Early Childhood (ECE-131)</i>	3 s.h.
<i>Child Health, Safety, and Nutrition (ECE-133)</i>	3 s.h.
<i>Curriculum for Young Children (ECE-150)</i>	3 s.h.
<i>Early Childhood Guidance (ECE-243)</i>	3 s.h.
<i>Introduction to PLC's (ELT-170)</i>	3 s.h.
<i>Elements of Writing (ENG-015)</i>	4 s.h.
<i>Principles of Banking (FIN-101)</i>	3 s.h.
<i>Analysis and Valuation of Stocks (FIN-210)</i>	1 s.h.
<i>Stocks, Bonds, and Investing (FIN-214)</i>	1 s.h.
<i>Online Investing (FIN-217)</i>	1 s.h.
<i>Visual Communication (GRA-108)</i>	3 s.h.
<i>Medical Terminology I (HSC-120)</i>	3 s.h.
<i>Medical Terminology II (HSC-121)</i>	3 s.h.
<i>Business and Financial Math (MAT-710)</i>	2 s.h.
<i>Principles of Marketing (MKT-110)</i>	3 s.h.
<i>PTA Terminology (PTA-100)</i>	1 s.h.
<i>Speed Reading (RDG-161)</i>	1 s.h.
<i>Orientation to College (SDV-100)</i>	0 s.h.
<i>Job Seeking Skills (SDV-135)</i>	1 s.h.
<i>Career Decision Making (SDV-160)</i>	2 s.h.
<i>Listen to Your Heart and Success Will Follow (SDV-177)</i>	1 s.h.
* Open enrollment courses. All others start and end on the regular semester dates.	

GENERAL EDUCATION AND OTHER TRANSFER COURSES

North Iowa Area Community College considers education to be the foundation of a democratic society. At the core of the educational experience is general education, an ongoing endeavor that engages students in acquiring the knowledge and tools necessary to understand their environment and contribute to their communities.

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

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

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

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

Listed as follows are the general education courses for the **Associate in Arts, Associate in Science, and Associate in Science (Business)** degrees.

COMMUNICATION

ENGLISH COMPOSITION

ENG-102	Composition & Speech I	4 s.h.
ENG-103	Composition & Speech II	4 s.h.
ENG-105	Composition I	3 s.h.
ENG-106	Composition II	3 s.h.

SPEECH

SPC-111	Public Speaking	2 s.h.
SPC-131	Group Communication	2 s.h.

HUMANITIES

ART

ART-101	Art Appreciation	3 s.h.
ART-102	Art for Elementary Education	3 s.h.
ART-115	Graphic Design	3 s.h.

ART-120	Two-Dimensional Design	3 s.h.
ART-127	Digital Illustration	3 s.h.
ART-133	Drawing	3 s.h.
ART-173	Ceramics	3 s.h.
ART-187	Creative Photography	3 s.h.
ART-188	Creative Photography II	3 s.h.
ART-203	Art History I	3 s.h.
ART-204	Art History II	3 s.h.

DRAMA

DRA-119	Introduction to Theatre-TV-Film	3 s.h.
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FOREIGN LANGUAGE

FLS-141	Elementary Spanish I	4 s.h.
FLS-142	Elementary Spanish II	4 s.h.
FLS-241	Intermediate Spanish I	4 s.h.
FLS-242	Intermediate Spanish II	4 s.h.
FLS-261	Advanced Spanish I	3 s.h.
FLS-262	Advanced Spanish II	3 s.h.

HISTORY

HIS-112	Western Civilization: Ancient to Early Modern	4 s.h.
HIS-113	Western Civilization: Early Modern to Present	4 s.h.
HIS-151	U.S. History to 1877	3 s.h.
HIS-152	U.S. History since 1877	3 s.h.

HUMANITIES

HUM-115	Encounters in Humanities	2 s.h.
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JOURNALISM

JOU-115	Intro to Journalism	3 s.h.
JOU-121	News Writing & Reporting	3 s.h.

LITERATURE

EDU-235	Children's Literature	3 s.h.
LIT-170	Poetry/Drama	3 s.h.
LIT-160	Short Story/Novel	3 s.h.
LIT-130	African American Literature	3 s.h.
LIT-131	Native American Literature	3 s.h.
LIT-132	Women of Color	3 s.h.
DRA-145	Oral Interpretation	3 s.h.
LIT-150	World Literature I	3 s.h.
LIT-151	World Literature II	3 s.h.

MUSIC

MUS-100	Music Appreciation	3 s.h.
MUS-122	Music Theory I	4 s.h.
MUS-123	Music Theory II	4 s.h.
MUS-140	Concert Choir	1 s.h.
MUS-144	Orchestra	1 s.h.
MUS-145	Concert Band	1 s.h.
MUS-150	Chamber Ensemble	1 s.h.
MUS-152	Voice Ensemble (NIACC Singers)	1 s.h.
MUS-163	Instrumental Jazz Ensemble	1 s.h.
MUS-222	Music Theory III	4 s.h.
MUS-223	Music Theory IV	4 s.h.
MUA-120	Applied Piano	1 s.h.
MUA-285	Applied Vocal	1-2 s.h.
MUA-286	Applied Flute	1-2 s.h.
MUA-287	Applied Oboe	1-2 s.h.
MUA-288	Applied Clarinet	1-2 s.h.
MUA-289	Applied Bassoon	1-2 s.h.
MUA-290	Applied Saxophone	1-2 s.h.
MUA-291	Applied Trumpet	1-2 s.h.
MUA-292	Applied French Horn	1-2 s.h.
MUA-293	Applied Trombone	1-2 s.h.

MUA-294	Applied Euphonium	1-2 s.h.
MUA-295	Applied Tuba	1-2 s.h.
MUA-296	Applied Percussion	1-2 s.h.
MUA-297	Applied Drum Set.....	1-2 s.h.
MUA-298	Applied Guitar	1-2 s.h.
MUA-299	Applied Piano II.....	1-2 s.h.

PHILOSOPHY/ETHICS

PHI-101	Introduction to Philosophy.....	3 s.h.
PHI-105	Introduction to Ethics	3 s.h.

NATURAL SCIENCE/MATHEMATICS

BIOLOGICAL SCIENCES

BIO-102	Introductory Biology	3 s.h.
BIO-103	Introductory Biology Lab	1 s.h.
BIO-123	Inquiry into Life Science.....	3 s.h.
BIO-151	Nutrition.....	3 s.h.
BIO-152	Health and Nutrition	3 s.h.
BIO-157	Human Biology.....	4 s.h.
BIO-186	Microbiology	4 s.h.
BIO-202	Biology I	4 s.h.
BIO-203	Biology II	4 s.h.
BIO-206	Anatomy & Physiology I.....	4 s.h.
BIO-207	Anatomy & Physiology II.....	4 s.h.
ENV-110	Environmental Science	3 s.h.

PHYSICAL SCIENCES

CHM-122	Introduction to General Chemistry	4 s.h.
CHM-153	College Chemistry I.....	5 s.h.
CHM-154	College Chemistry II.....	5 s.h.
CHM-166	General Chemistry I	5 s.h.
CHM-176	General Chemistry II	5 s.h.
CHM-263	Organic Chemistry I	5 s.h.
CHM-273	Organic Chemistry II	5 s.h.
PHS-125	Physical Science	4 s.h.
PHS-142	Principles of Astronomy	3 s.h.
PHY-106	Survey of Physics	4 s.h.
PHY-162	College Physics I	4 s.h.
PHY-172	College Physics II	4 s.h.
PHY-212	Classical Physics I	5 s.h.
PHY-222	Classical Physics II	5 s.h.

MATH

MAT-110	Math for Liberal Arts.....	3 s.h.
MAT-112	Math for Elementary Teachers I.....	3 s.h.
MAT-113	Math for Elementary Teachers II.....	3 s.h.
MAT-121	College Algebra.....	4 s.h.
MAT-128	Precalculus.....	4 s.h.
MAT-134	Trigonometry & Analytic Geometry	3 s.h.
MAT-140	Finite Math	3 s.h.
MAT-156	Introduction to Statistics	3 s.h.
MAT-161	Business Statistics	3 s.h.
MAT-165	Calculus	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.

SOCIAL SCIENCES

ECONOMICS

ECN-115	Personal Finance	3 s.h.
ECN-120	Principles of Macroeconomics	3 s.h.
ECN-130	Principles of Microeconomics	3 s.h.

GEOGRAPHY

GEO-124	Regional Geography of the Nonwestern World	3 s.h.
GEO-125	Regional Geography of the Developed World	3 s.h.
GEO-131	Physical Geography.....	3 s.h.

GOVERNMENT/POLITICAL SCIENCE

POL-111	American National Government.....	3 s.h.
POL-112	American State and Local Government.....	3 s.h.
POL-121	International Relations	3 s.h.

PSYCHOLOGY

PSY-111	Introduction to Psychology.....	3 s.h.
PSY-121	Developmental Psychology.....	3 s.h.
PSY-223	Child and Adolescent Psychology.....	3 s.h.
PSY-281	Educational Psychology.....	3 s.h.

SOCIOLOGY

SOC-110	Introduction to Sociology.....	3 s.h.
SOC-115	Social Problems	3 s.h.
SOC-120	Marriage & Family.....	3 s.h.

ELECTIVES

BUSINESS COURSES

ACCOUNTING

ACC-111	Introduction to Accounting.....	3 s.h.
ACC-121	Principles of Accounting I.....	3 s.h.
ACC-122	Principles of Accounting II.....	3 s.h.
ACC-161	Payroll Accounting	3 s.h.
ACC-311	Computer Accounting.....	3 s.h.

COMPUTER TECHNOLOGY

ADM-105	Introduction to Keyboarding	1 s.h.
ADM-108	Keyboarding Skill Development.....	1 s.h.
ADM-123	Document Formatting	3 s.h.
ADM-131	Office Calculators	1 s.h.
ADM-145	Advanced Desktop.....	3 s.h.
BCA-100	Computer Literacy.....	1 s.h.
BCA-101	Introduction to Computers and Information Systems.....	3 s.h.
BCA-103	Management Information Systems	3 s.h.
BCA-129	Basic Word Processing	2 s.h.
BCA-152	Electronic Spreadsheets	3 s.h.
BCA-163	Microsoft Access	1 s.h.
BCA-170	Personal Information Management.....	2 s.h.
BCA-174	Basic Presentation Software	1 s.h.
BCA-184	Comprehensive Web Page Design Software	3 s.h.
BCA-185	Beginning Web Page Development	3 s.h.
BCA-203	E-Commerce Cases.....	4 s.h.
BCA-215	Computer Business Applications	3 s.h.
BCA-601	Create a Website	1 s.h.
BCA-602	Microsoft Excel.....	1 s.h.
BCA-603	Microsoft Access for the Workplace.....	1 s.h.
BUS-151	Introduction to E-Commerce	3 s.h.
CFR-100	Computer Forensics I.....	3 s.h.
CIS-119	Introduction to Programming.....	4 s.h.

CIS-125	Intro to Programming Logic with Language	3 s.h.
CIS-155	Introduction to Video Game Testing.....	3 s.h.
CIS-156	Testing Concepts	3 s.h.
CIS-172	Java.....	4 s.h.
CIS-210	Web Development I	3 s.h.
CIS-211	Web Development II	3 s.h.
CIS-224	Server Side Scripting	4 s.h.
CIS-246	Intermediate Testing Concepts	4 s.h.
CIS-275	Advanced Testing Concepts	3 s.h.
CIS-276	Testing Cases	4 s.h.
CIS-332	Database and SQL.....	3 s.h.
GRA-108	Visual Communication	3 s.h.
GRA-117	Principles of Illustration	3 s.h.
GRA-151	Web Design.....	3 s.h.
GRA-166	Web Animation	3 s.h.
GRA-173	Typography	3 s.h.
GRA-194	Design Studio Applications	3 s.h.
GRA-299	Electronic Portfolio	3 s.h.
NET-112	Technology Essentials	3 s.h.
NET-113	IT Essentials.....	4 s.h.
NET-133	Operating System Software Basics	4 s.h.
NET-135	Operating Systems I	3 s.h.
NET-136	Operating Systems II	3 s.h.
NET-160	Network Design and Documentation	3 s.h.
NET-201	Network LANs & WANs	4 s.h.
NET-213	CISCO Networking.....	4 s.h.
NET-223	CISCO Routers	4 s.h.
NET-246	Perimeter Defense	3 s.h.
NET-247	Internal Defense.....	3 s.h.
NET-260	Advanced Routing/Switching	6 s.h.
NET-264	CISCO WAN Remote Access	4 s.h.
NET-284	CISCO Support	4 s.h.
NET-301	Network Cases (Voice over IP).....	4 s.h.
NET-304	Windows Workstation Operating Systems.....	4 s.h.
NET-314	Windows Server.....	4 s.h.
NET-324	Windows Network Management	4 s.h.
NET-375	Cyber Security Design Cases.....	3 s.h.
NET-490	Inter/Intra - Applications	4 s.h.
NET-613	Information Data Assurance.....	3 s.h.
NET-635	Ethical Hacking	3 s.h.
NET-690	Emerging Network Access Technologies.....	4 s.h.
NET-743	Fundamental Project Management.....	4 s.h.
NET-782	Computer Users Support	3 s.h.

ED-to-GO COURSES

(limited to 3 s.h. maximum of these courses)

BCA-182	Introduction to Microsoft Publisher 2002	1 s.h.
BCA-270	Learn to Buy and Sell on eBay	1 s.h.
BCA-280	Introduction to Quickbooks	1 s.h.
FIN-210	Analysis and Valuation of Stocks.....	1 s.h.
FIN-214	Stocks, Bonds, and Investing: Oh My!.....	1 s.h.

INTERNSHIPS

BUS-107	Business Careers.....	1 s.h.
BUS-225	Business Internships.....	1-5 s.h.
MGT-225	Internship in Sport Management.....	1-3 s.h.
NET-815	PC Technician Internship	3 s.h.

MANAGEMENT

BUS-102	Introduction to Business.....	3 s.h.
BUS-134	The Successful Entrepreneur	2 s.h.
BUS-136	Creativity, Innovation and Opportunity Analysis.....	2 s.h.
BUS-142	Planning the Entrepreneurial Venture.....	2 s.h.
BUS-158	Internet Law	3 s.h.
BUS-161	Human Relations	3 s.h.
BUS-185	Business Law I.....	3 s.h.
BUS-186	Business Law II.....	3 s.h.

BUS-194	Advanced Professional Leadership Development	1 s.h.
BUS-255	60-Hour Real Estate Pre-licensure	3 s.h.
BUS-260	Introduction to Insurance	3 s.h.
BUS-266	Property/Casualty Insurance.....	3 s.h.
BUS-267	Life, Health & Disability Insurance	3 s.h.
BUS-298	Seminar in Entrepreneurship	3 s.h.
FIN-101	Principles of Banking	3 s.h.
MGT-101	Principles of Management	3 s.h.
MGT-130	Principles of Supervision.....	3 s.h.
MGT-170	Human Resources Management	3 s.h.
MGT-220	Introduction to Sport Management	3 s.h.
MGT-221	Current Issues in Sport	3 s.h.

MARKETING

MKT-110	Principles of Marketing.....	3 s.h.
MKT-140	Principles of Selling.....	3 s.h.
MKT-150	Principles of Advertising.....	3 s.h.

PROFESSIONAL ADMINISTRATIVE SERVICES

ADM-162	Office Procedures	4 s.h.
ADM-205	Legal Office Procedures	5 s.h.
ADM-215	Medical Office Procedures.....	3 s.h.
BCA-136	Advanced Word Processing.....	3 s.h.
BUS-121	Business Communications.....	3 s.h.
HIT-210	Basic Medical Insurance & Coding	2 s.h.
HIT-630	Medical Transcription I	3 s.h.
HIT-631	Medical Transcription II.....	3 s.h.
HIT-632	Medical Transcription III	3 s.h.
HSC-120	Medical Terminology I	3 s.h.
HSC-121	Medical Terminology II	3 s.h.

OTHER ELECTIVE COURSES**CAREER/ACADEMIC SUCCESS**

RDG-125	College Reading Strategies	3 s.h.
SDV-111	Success Seminar	1 s.h.
SDV-113	Strategies for Academic Success	2 s.h.
SDV-120	Individualized Educational Planning & Assessment	1 s.h.
SDV-135	Job Seeking Skills.....	1 s.h.
SDV-160	Career Decision Making.....	2 s.h.

COACHING ENDORSEMENT

PEC-110	Coaching Ethics Techniques and Theories	1 s.h.
PEC-115	Athletic Development and Human Growth.....	1 s.h.
PEC-122	Introduction to Anatomy & Physiology for Coaching.....	1 s.h.
PEC-127	Care & Prevention of Athletic Injuries	2 s.h.

COOPERATIVE EDUCATION INTERNSHIPS

SDV-210	Cooperative Education Internship.....	1-5 s.h.
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CRIMINAL JUSTICE

CRJ-100	Introduction to Criminal Justice.....	3 s.h.
CRJ-105	Foundations of Criminal Justice.....	3 s.h.
CRJ-110	Patrol Procedures	3 s.h.
CRJ-130	Criminal Law	3 s.h.
CRJ-141	Criminal Investigation.....	3 s.h.
CRJ-230	Evidence	3 s.h.

ED-to-GO COURSES

RDG-161	Speed Reading	1 s.h.
SDV-177	Listen to Your Heart and Success Will Follow	1 s.h.

EDUCATION

ECE-103	Introduction to Early Childhood Education.....	3 s.h.
ECE-131	Home & School Relationships in Early Childhood.....	3 s.h.
ECE-133	Child Health, Safety and Nutrition.....	3 s.h.
ECE-150	Curriculum for Young Children.....	3 s.h.

ECE-176	Child Development.....	3 s.h.
ECE-243	Early Childhood Guidance.....	3 s.h.
EDU-216	Introduction to Teaching.....	3 s.h.
EDU-242	Educational Measurement & Evaluation.....	2 s.h.
EDU-246	Including Exceptional Students.....	3 s.h.
EDU-250	Educational Media and Classroom Computing Techniques.....	3 s.h.

ENGINEERING

EGT-102	Orientation to Engineering.....	0 s.h.
EGT-119	Mechanics of Materials.....	3 s.h.
EGT-129	Statics for Engineering.....	3 s.h.
EGT-181	Engineering Problems with FORTRAN.....	3 s.h.
EGT-192	Engineering Graphics & Design.....	3 s.h.

FIRE SCIENCE

FIR-155	Fire Protection Technology.....	4 s.h.
FIR-184	Hazardous Material Technician.....	3 s.h.
FIR-210	Incident Command System.....	1 s.h.
FIR-231	Fire Behavior & Investigation.....	4 s.h.
FIR-281	Fire Instructor I.....	2 s.h.

INTERCOLLEGIATE ATHLETICS

PEV-115	Varsity Baseball.....	1 s.h.
PEV-120	Varsity Basketball.....	1 s.h.
PEV-130	Varsity Cross Country.....	1 s.h.
PEV-133	Varsity Track & Field.....	1 s.h.
PEV-135	Varsity Football.....	1 s.h.
PEV-140	Varsity Golf.....	1 s.h.
PEV-150	Varsity Soccer.....	1 s.h.
PEV-160	Varsity Softball.....	1 s.h.
PEV-170	Varsity Volleyball.....	1 s.h.

NURSE AIDE/EMT

EMS-110	EMS First Responder.....	2 s.h.
EMS-220	EMT Basic I.....	4 s.h.
EMS-224	EMT Basic II.....	2 s.h.
EMS-311	EMT Intermediate 85.....	4 s.h.
EMS-411	EMT-Paramedic Part I.....	6 s.h.
EMS-412	EMT-Paramedic Part II.....	7 s.h.
EMS-413	EMT-Paramedic Part III.....	3 s.h.
EMS-414	EMT-Paramedic Part IV.....	3 s.h.
HSC-171	Nurse Aide Theory.....	2 s.h.
HSC-174	Nurse Aide Clinical.....	1 s.h.

PHYSICAL EDUCATION/ACTIVITIES

PEA-100	Aerobics/Tae-Bo I.....	1 s.h.
PEA-116	Bowling I.....	1 s.h.
PEA-146	Physical Fitness I.....	1 s.h.
PEA-147	Physical Fitness I Lab.....	1 s.h.
PEA-187	Weight Training I.....	1 s.h.
PEA-190	Yoga/Stretching I.....	1 s.h.
PEC-166	Sports Officiating: Fall and Winter Sports.....	2 s.h.
PEC-168	Sports Officiating: Spring and Summer Sports.....	2 s.h.
PEH-140	First Aid.....	1 s.h.
PEH-161	Introduction to Physical Education.....	2 s.h.
PEH-180	Rape Education and Self Defense.....	2 s.h.

STUDENT SENTATE/LOGOS

JOU-145	Logos.....	1 s.h.
SDV-195	Student Senate.....	1 s.h.

OTHER ELECTIVES

AGS-109	Animal Science I.....	3 s.h.
AGS-110	Animal Science I Lab.....	1 s.h.
AGS-209	Animal Science II.....	3 s.h.

AGS-210	Animal Science II Lab.....	1 s.h.
ANT-105	Cultural Anthropology.....	3 s.h.
ART-116	Graphic Design II.....	3 s.h.
ART-131	Digital Publication Design.....	3 s.h.
ART-143	Painting I.....	3 s.h.
ART-144	Painting II.....	3 s.h.
ART-186	Digital Photography.....	3 s.h.
BIO-922	Field Studies in Biology.....	1-4 s.h.
ENG-221	Creative Writing.....	3 s.h.
HIS-254	American Indian History.....	3 s.h.
HIS-257	African American History.....	3 s.h.
HSC-108	Introduction to Health Professions.....	2 s.h.
HSV-152	Introduction to Counseling.....	3 s.h.
HSV-153	Professional Ethics.....	3 s.h.
HUM-130	British Life and Culture.....	3 s.h.
MAT-102	Intermediate Algebra.....	4 s.h.
MLT-101	Introduction to Laboratory Science.....	2 s.h.
MLT-120	Urinalysis.....	3 s.h.
MUS-105	Introduction to Music Theory.....	2 s.h.
PTA-120	Kinesiology.....	3 s.h.
SDV-287	Phi Theta Kappa Leadership Development Studies.....	2 s.h.
SOC-150	Introduction to Human Services.....	3 s.h.
SOC-215	Prime for Life.....	1 s.h.

NOTE: UP TO 16 SEMESTER HOURS OF CAREER COURSES CAN BE USED AS ELECTIVE CREDIT. SEE COURSE DESCRIPTIONS FOR A COMPLETE LIST OF CAREER COURSES.

DEVELOPMENTAL

(Does not count toward Associate Degree)

ENG-015	Elements of Writing.....	4 s.h.
ENG-046	Communication Through Reading and Writing Enrichment.....	4 s.h.
ENG-047	Communication Through Reading and Writing II, Enrich.....	4 s.h.
ENG-068	Developmental Writing.....	1 s.h.
MAT-030	Enrich Math I.....	2 s.h.
MAT-031	Enrich Math II.....	2 s.h.
MAT-053	Pre-Algebra.....	4 s.h.
MAT-063	Elementary Algebra.....	4 s.h.
SDV-065	Personal Management.....	3 s.h.
SDV-066	Career Decisions.....	3 s.h.
SDV-068	Skills for Job Seekers.....	3 s.h.

PLEASE CHECK WITH A COUNSELOR TO VERIFY YOUR DEGREE REQUIREMENTS!

NOT ALL COURSES ARE OFFERED EVERY SEMESTER.

COURSE CATALOG NUMBERING SYSTEM

The three-letter prefix stands for the discipline or department of study.

Three numbers:

000-099 = Developmental Courses

100-899 = College Transfer and Career/
Technical Courses

900-999 = Special Topics** and OJT

BUS-102 Introduction to Business	(3 s.h.)
Description _____	
_____ (45-0)	
<i>Equivalent to 15-101, BUSN-101.</i>	

← The credit value of the course.

← Total lecture/lab hours

← Previous course numbers

ACC	Accounting	HCM	Hospitality, Culinary & Management
ADM	Administrative Assistant	HCR	Heating and Air Conditioning
ADN	Associate Degree Nursing	HIS	History
AGA	Agriculture - Agronomy	HIT	Health Information Technology
AGB	Agriculture - Farm Management	HSC	Health Sciences
AGC	Agriculture - Comprehensive-Miscellaneous	HSV	Human Services
AGE	Agriculture - Equine	HUM	Humanities
AGM	Agriculture - Mechanics	IND	Industrial Technology
AGP	Agriculture - Precision Agriculture	JOU	Journalism
AGS	Agriculture - Animal Science	LIT	Literature
ANT	Anthropology	MAP	Medical Assistant
ART	Art	MAS	Masonry
AUT	Automotive Technology	MAT	Mathematics
BCA	Business Computer Application	MFG	Manufacturing
BIO	Biology	MGT	Management
BMA	Building Maintenance	MKT	Marketing
BUS	Business	MLT	Medical Lab Tech
CFR	Computer Forensics	MUA	Music - Applied
CHM	Chemistry	MUS	General Music
CIS	Computer Programming	NET	Computer Networking
CON	Construction	PEA	Physical Education Activities
CRJ	Criminal Justice	PEC	Coaching Officiating
DRA	Film and Theatre	PEH	General Physical Education and Health
ECE	Early Childhood Education	PEV	Intercollegiate Physical Education
ECN	Economics	PHI	Philosophy
EDU	Education	PHS	Physical Science
EGT	Engineering Technology	PHY	Physics
ELT	Electronics	PNN	Practical Nursing
EMS	Emergency Medical Services	POL	Political Science
ENG	English Composition	PSY	Psychology
ENV	Environmental Science	PTA	Physical Therapist Assistant
FIN	Finance	RDG	Reading
FIR	Fire Science	SDV	Student Development
FLS	Foreign Language - Spanish	SOC	Sociology
GEO	Geography	SPC	Speech
GRA	Graphic Communications	WEL	Welding

****XXX-949A-C Special Topics**

1-3 s.h.

Special Topics courses are offered in each discipline. Students may submit a proposal for a special project to an instructor. With the instructor's approval and the consent of the Division Chair and the Vice President for Academic Affairs, credit may be given upon satisfactory completion of the project. Course may be repeatable for credit. (15 to 45-0) *Equivalent to XXXX-900A-C.*

Course Descriptions--

ACC-111 Introduction to Accounting (3 s.h.)
A basic understanding of the process of collecting and using financial information in a business. (45-0) *Equivalent to 15-109, ACCT-101.*

ACC-121 Principles of Accounting I (3 s.h.)
A financial accounting course: analyzing transactions, matching principle, adjusting and closing entries, financial statements, receivables, inventories, fixed assets and intangible assets, current liabilities, corporations (capital stock transactions, dividends, income and taxes, stockholder's equity, investment in stocks), bonds payable, investment in bonds. (45-0) *Equivalent to 15-150, ACCT-120.*

ACC-122 Principles of Accounting II (3 s.h.)
Prerequisite: ACC-121, Principles of Accounting I, or equivalent. A managerial accounting course that covers Statement of Cash Flows, financial statement analysis, job order and process cost systems, cost behavior, budgeting, standard costing, differential analysis and product pricing, capital investment analysis, activity-based costing, and just-in-time manufacturing. Emphasis is on management's use of accounting information. (45-0) *Equivalent to 15-151, ACCT-121.*

ACC-161 Payroll Accounting (3 s.h.)
Prerequisite: ACC-111, Introduction to Accounting or ACC-121, Principles of Accounting I with a grade of C or above. A study of basic business taxes. Emphasis on payroll taxes including social security taxes, income taxes, and unemployment taxes; completion of quarterly and annual reports and a payroll simulation project. (45-0) *Equivalent to 15-155, ACCT-105.*

ACC-311 Computer Accounting (3 s.h.)
Prerequisite: ACC-111, Introduction to Accounting or ACC-121, Principles of Accounting I with a grade of C or above. Designed to provide students with realistic experience with automated accounting consisting of five systems: general ledger, accounts payable, accounts receivable, depreciation, and payroll. Students will simulate taking an accounting position in a company already using a computerized accounting system. (45-0) *Equivalent to 15-160, ACCT-106.*

ADM-105 Introduction to Keyboarding (1 s.h.)
Prerequisite: None. This course covers the development of keyboarding techniques using the touch method on the computer keyboard to learn/review the alphabetic keys. The keyboarding goal is a minimum rate of 20 words a minute with 3 or fewer errors on a two-minute timing. Students with little or no keyboarding skill would begin at this level. This course has been designated as a pass/no pass course. (0-30) *Equivalent to BUSN-102, 15-112.*

ADM-108 Keyboarding Skill Development (1 s.h.)
Prerequisite: ADM-105, Introduction to Keyboarding, OR ability to keyboard at 20 words a minute. This course covers the development of the touch method on the computer keyboard to learn/review the alphabetic, numeric, and symbol keys. The keyboarding goal is a minimum rate of 30 words a minute with 3 or fewer errors on a three-minute timing. This course has been designated as a pass/no pass course. (0-30) *Equivalent to 15-113, BUSN-103.*

ADM-123 Document Formatting (3 s.h.)
Prerequisite: ADM-105, Introduction to Keyboarding, and/or ADM-108, Keyboarding Skill Development, OR keyboarding skill of 30 wpm (words a minute) with 3 or fewer errors on a 3-minute timed writing. This course covers the continued development of speed and accuracy on the alphabetic, numeric, and symbol keys. Students develop skills in formatting, producing, and proofreading the following documents: memos, letters, envelopes, tables, reports, and other miscellaneous business documents. (30-30) *Equivalent to 15-107, OFFC-701.*

ADM-131 Office Calculators (1 s.h.)
Study of the 10-key, electronic calculator following current trends in office technology. Course emphasizes use of the touch method, explains common calculator features, and practices mathematical skills necessary in business calculations. This course has been designated as a pass/no pass course. (5-20) *Equivalent to 15-110, OFFC-702.*

ADM-145 Advanced Desktop (3 s.h.)
Prerequisite: BCA-101, Introduction to Computers and Information Systems. Advanced topics in desktop computer applications will be studied in this course. Students will also examine integrated software packages such as Microsoft Office Professional in this class. They will utilize integrated software to solve several business problems presented to them allowing them to gain an understanding of integrated software, as well as other desktop applications, through hands-on experience. The course will be project-based, providing the student with a collaborative environment. (30-30) *Equivalent to 15-176, COMP-206.*

ADM-162 Office Procedures (4 s.h.)
Prerequisite: BCA-129, Basic Word Processing; and BUS-121, Business Communications. Office procedures and techniques necessary to perform general office duties. Includes using a word processor, developing transcription skills, using the Internet to access information, filing, handling telephone services, discussing professionalism, applying grammar rules, and taking care of general office administration. Students are expected to spend time outside of class working in the computer lab. (20-80) *Equivalent to 15-218, OFFC-830.*

ADM-205 Legal Office Procedures (5 s.h.)
Prerequisite: BCA-129, Basic Word Processing, and BUS-121, Business Communications. Management of a lawyer's office that includes topics covering general legal documents, personal and real property, business organizations and meetings, bankruptcies, wills and estates, civil cases, and family law. Includes using a word processor, developing transcription skills, using the Internet to access information, filing, handling telephone services, discussing professionalism, applying grammar rules, and taking care of general office administration. Students are expected to spend time outside of class working in the computer lab. (60-30) *Equivalent to 15-122, OFFC-810.*

ADM-215 Medical Office Procedures (3 s.h.)
Prerequisite: BCA-129, Basic Word Processing, and BUS-121, Business Communications. Management of a medical office that includes preparing correspondence and patient records, using the Internet to access information, filing, handling telephone services,

making and keeping appointments, developing transcription skills, composing letters, discussing professionalism, applying grammar rules, and taking care of general office duties. Also includes medical ethics and etiquette, medical law, and use of a computer for word processing. Students are expected to spend time outside of class working in the computer lab. (45-0) *Equivalent to 15-259, OFFC-850.*

ADN-101 Introduction to Nursing (1 s.h.)

Prerequisite: Acceptance into the ADN Program is a requirement for entrance into this class. An introduction to the philosophy and conceptual framework of the NIACC Associate Degree Nursing Program. The course includes basic concepts related to legal and ethical aspects of nursing, nursing roles, and current trends in health care. The student is introduced to wellness-illness theory, the therapeutic nurse-patient relationship and effective communication techniques. An introduction to caring concepts is also included. This course has been designated as a pass/no pass course. (15-0) *Equivalent to 90-106, ADNS-701.*

ADN-102 Nursing I (7 s.h.)

Prerequisite: ADN-101, Introduction to Nursing; BIO-186, Microbiology; and ENG-105, Composition I. Nursing I utilizes the nursing process with emphasis on assessment and nursing diagnosis in meeting client needs resulting from impairments relating to safety and comfort throughout the life span. Pharmacological concepts, diet modification, psychosocial concepts, and health maintenance are integral considerations in the progressive development of the student's knowledge and skills. Clinical experiences include opportunities to apply nursing roles and the nursing process in long-term care, medical-surgical, and community settings. (60-105) *Equivalent to 90-108, ADNS-702.*

ADN-103 Nursing II (10 s.h.)

Prerequisite: BIO-206, Anatomy and Physiology I with Lab; ADN-102, Nursing I; PSY-121, Developmental Psychology; and PSY-111, Introduction to Psychology; ENG-105, Composition I; BIO-186, Microbiology; ADN-101, Introduction to Nursing. Nursing II utilizes the nursing process with emphasis on planning in meeting client needs resulting from impairments relating to self-esteem and mobility throughout the life span. Pharmacological concepts, diet modification, psychosocial concepts, and health maintenance are integral considerations in the progressive development of the student's knowledge and skills. Clinical experiences include opportunities to apply nursing roles and the nursing process in maternal-newborn, pediatrics, medical-surgical, and community settings. (105-135) *Equivalent to 90-111, ADNS-703.*

ADN-104 Nursing IIA (1 s.h.)

Prerequisite: Graduate of approved Practical Nursing Program; hold current, unencumbered practical nurse license, plus successful completion of all freshman nonnursing courses. Provides introduction to program, differentiates roles of LPN and RN, reviews nursing process, presents specific communication techniques, and reviews content in laboratory setting. Students must obtain a passing grade in this course to continue into Nursing III, ADN-603. If a passing grade is not attained, the student will be required to register for Nursing II, ADN-103. This course has been designated as a pass/no pass course. (14-2) *Equivalent to 90-113, ADNS-704.*

ADN-603 Nursing III (12 s.h.)

Prerequisite: ADN-103, Nursing II; or ADN-104, Nursing IIA, or consent of Associate Degree Nursing faculty, plus all freshman year nonnursing courses. Nursing III utilizes the nursing process with emphasis on implementation in meeting client needs resulting from impairments relating to interpersonal interaction, oxygenation, and nutrition throughout the life span. Pharmacological concepts, diet modification, psychosocial concepts, and health maintenance are integral considerations in the progressive development of the student's knowledge and skills. Clinical experiences will include opportunities to apply nursing roles and the nursing process in a variety of care settings. (105-225) *Equivalent to 90-210, ADNS-801.*

ADN-604 Nursing IV (12 s.h.)

Prerequisite: ADN-603, Nursing III, or consent of Associate Degree Nursing faculty, plus SOC-110, Introduction to Sociology. Nursing IV utilizes the nursing process with emphasis on evaluation in meeting client needs resulting from impairments relating to nutrition, elimination, and sensory stimulation throughout the life span. Pharmacological concepts, diet modification, psychosocial concepts, and health maintenance are integral considerations in the progressive development of the student's knowledge and skills to meet the diverse needs of the client. Concepts of management, legal, and ethical aspects of the nursing profession and issues related to current trends are presented. Clinical experiences will focus on clients with complex needs. The management experience is the culmination of the student's academic and clinical education in which the student will have an opportunity to care for a group of clients and apply basic skills in leadership and conflict management. Clinical experiences will include opportunities to apply nursing roles and the nursing process in a variety of care settings. (105-225) *Equivalent to 90-211, ADNS-802.*

AGA-114 Principles of Agronomy (3 s.h.)

Topics covered include: plant anatomy and physiology; plant classification and ID; pest classification and ID; and pesticides, pest management, application equipment, calibration, laws/regulations. Students will take the Iowa Core Manual examination as a requirement for this course. (38-15) *Equivalent to 90-160, AGAS-701.*

AGA-154 Fundamentals of Soil Science (3 s.h.)

Introduction to the physical, chemical, and biological properties of soils with an emphasis on the functions of the soil as a medium to support plant life. A review of the sources and functions of major and minor plant elements, fertilizers and their properties, soil acidity, liming materials, and soil conservation. (38-15) *Equivalent to 90-186, AGAS-703.*

AGA-852 Principles of Crop Production (3 s.h.)

Production and management practices for corn, soybeans, small grains, and legume crops common to North Iowa agriculture. (38-15) *Equivalent to 90-161, AGAS-702.*

AGA-854 Crop Production Lab (1 s.h.)

Problem-solving approach to crop management. Principles and practices of agricultural science are used in the discussion of management problems and operations related to crop production

at the NIACC Teaching Farm Lab. Students will participate in the management and operations of the NIACC Teaching Farm Lab. (0-30) *Equivalent to AGAS-805, 92-168.*

AGA-855 Site-Specific Crop Management (2 s.h.)

Prerequisite: AGA-154, Fundamentals of Soil Science, or its equivalent. Course covers advanced soil management. (30-0) *Equivalent to 92-261, AGPS-702.*

AGA-860 Soils and Crop Management (2 s.h.)

Prerequisite: AGA-154, Fundamentals of Soil Science, or its equivalent. Advanced plant nutrition, soil fertility, and nutrient management. (30-0) *Equivalent to 90-282, AGAS-801.*

AGB-101 Agricultural Economics (3 s.h.)

This course is designed for students seeking an Associate in Applied Science Degree in Agriculture. Students will study the role of agriculture in the American economy. Basic economic concepts, the composition and pricing of agricultural products, government and monetary policy will be discussed. A study of this country's agricultural economic policies with a look at how other countries' agricultural economic policies affect us. The economic decision-making process will be taught built upon the management function of planning, organizing, directing, and controlling. (45-0) *Equivalent to 90-183, AGBS-710.*

AGB-133 Introduction to Agricultural Business (3 s.h.)

Basic economic concepts, principles, and practices reflected in agriculture. An overview of the major components of an agricultural business organization and the economic fundamentals involved in organizing, operating, and managing an agricultural business. (45-0) *Equivalent to 90-170, AGBS-701.*

AGB-205 Introduction to Farm Operation (2 s.h.)

Introduction to Farm Operation is a unique study experience with hands-on-activities in the learning lab at NIACC. Students enrolled in this two-credit course participate in the management and operation of the NIACC Teaching Farm Lab. The primary objective of this course is to provide experience in the planning, purchasing, production, construction, maintenance, marketing, and investment decisions associated with a diversified Iowa farm operation. (8-45) *Equivalent to 90-264, AGCS-701.*

AGB-213 Ag Real Estate Evaluation (2 s.h.)

Farm appraisal is the systematic process of classifying and evaluating the characteristics of a farm in order to make a well-reasoned judgment of its value. This course provides students the opportunity to develop an understanding of real estate value and the application of the appraisal process to estimating the market value of agricultural and rural real estate. (30-0) *Equivalent to 92-189, AGBS-812.*

AGB-338 Salesmanship and Advertising (2 s.h.)

This course is designed for students seeking an Associate in Applied Science Degree in Agriculture. Sales presentations and advertising setups of agricultural goods and services will serve as a basis of discussion in this course. Students will study techniques of selling and advertising of agricultural goods and services, and have a first hand chance to sell products to student/consumers during the course of the semester. (30-0) *Equivalent to 90-189, AGBS-815.*

AGB-436 Grain Merchandising (2 s.h.)

Elements of producer marketing of major Midwest crops with emphasis on formulating marketing goals and plans. Marketing tools, futures and option markets, speculation, hedging, and risk management. (30-0) *Equivalent to 90-185, AGBS-801.*

AGB-438 Ag Futures and Futures Options (2 s.h.)

Prerequisite: AGB-436, Grain Merchandising. Advanced commodity marketing concepts, principles, and terminology. (30-0) *Equivalent to 92-263, AGPS-820.*

AGB-465 Ag Finance Management (2 s.h.)

Prerequisite: ACC-111, Introduction to Accounting. Principles of farm management. Emphasis is given to decision making, implementation, and control in farm operations using economic principles, farm records, enterprise analysis, financial reports, and investment analysis procedures. (30-0) *Equivalent to AGBS-810, 90-285.*

AGB-861 Employment Relations & Business Decisions (2 s.h.)

This course is designed for students seeking an Associate in Applied Science Degree in Agriculture. Provides students with a management and supervisory learning experience. The course emphasizes the role of management in today's agribusiness environment. Principles of managerial control, coordination, communication, motivation, and organization are discussed. The role of management supervision and its influence on employee productivity, satisfaction, and organizational effectiveness is a major part of the course. (30-0) *Equivalent to 92-272, AGBS-840.*

AGC-103 Agricultural Computer (3 s.h.)

This course is designed for students seeking an Associate in Applied Science Degree in Agriculture or for students transferring on to a four-year institution pursuing a degree in agriculture. Students will be involved in techniques that make the personal computer a more productive tool in agriculture. Students will also have the opportunity to see how computers enable better management decision-making and improved economic efficiency of agricultural operations. Major topic area of instruction is the Microsoft Office 2000 package. (30-30) *Equivalent to 90-182, COMP-703.*

AGE-116 Horse Essentials/Equine Management (2 s.h.)

General concepts of breed type and identification; the selection process; nutrition requirements; the reproduction cycle; the importance of genetics; general health; and management requirements will build a strong background for those interested in owning a horse of their own or pursuing a career in equine management. (30-0) *Equivalent to 92-264, AGES-701.*

AGM-120 Basic Agricultural Mechanics (2 s.h.)

Maintenance and management of agricultural machinery and power units. (23-45) *Equivalent to 92-273, AGMS-701.*

AGP-331 Precision Ag Technologies (2 s.h.)

Prerequisite: Computer Applications, Crop Science I, II, or demonstrated proficiency in each area. Precision agriculture is a management strategy that uses information technologies to bring data from multiple sources to bear on decisions associated with crop production. It should be viewed as a developing management system and not simply as an application of technology. GPS is considered the

enabling tool for the entire Precision Agriculture system. GPS is vital for yield monitoring, soil sampling, measuring field boundaries, and variable-rate application of crop nutrients and crop protection products. Students will be introduced to this and to other important technologies, with hands-on experience being provided using GPS receivers, scouting, navigation tools, and mapping software. (15-30) *Equivalent to AGPS-701, 90-267, AGP-333.*

AGS-109 Animal Science I (3 s.h.)

This course is designed to provide students with a general overview of the livestock industry. It identifies the ways in which domestic animals serve the basic needs of humans for food, fiber, shelter, protection, fuel and emotional well-being. Students will develop an understanding of and be able to apply the basic principles of animal selection, breeding, genetics, feeding, health, and husbandry practices. As a student, you will become familiar with the economic and social issues that confront the livestock industry. (45-0) *Equivalent to 70-112, AGSS-701.*

AGS-110 Animal Science I Lab (1 s.h.)

This course incorporates laboratory experiences designed to help students develop livestock husbandry skills, livestock facilities construction and maintenance skills, related livestock technology use skills, and group problem solving skills. This course is designed to be a companion for AGS-109, Animal Science I, and will provide students with hands-on experiences in each of the Animal Science units of study. Students will be able to apply the basic principles of animal selection, breeding, feeding, health, and husbandry practices. Students will coordinate specific animal improvement and marketing activities associated with the livestock species at NIACC. (0-30) *Equivalent to AGSS-701L.*

AGS-209 Animal Science II (3 s.h.)

This course applies advanced principles of livestock production and management. Areas of emphasis include: a review of animal husbandry practices, which result in greater performance and profit; livestock facilities requirements; production trends, animal health, and nutritional requirements for livestock produced in the Midwest; emphasis on swine and beef cattle production. (45-0) *Equivalent to 70-212, AGSS-702.*

AGS-210 Animal Science II Lab (1 s.h.)

This course incorporates laboratory experiences designed to help students develop livestock husbandry skills, livestock facilities construction and maintenance skills, related livestock technology use skills, and group problem solving skills. This course is designed to be a companion for AGS-209, Animal Science II, and will provide students with hands-on experiences in each of the Animal Science units of study. Students will be able to apply the basic principles of animal selection, breeding, feeding, health, and husbandry practices. Students will coordinate specific animal improvement and marketing activities associated with the livestock species at NIACC. (0-30) *Equivalent to AGSS-702L.*

AGS-227 Beef Cattle Production (2 s.h.)

This course is designed to help students identify the primary biological principles that contribute to raising productive beef cattle, to integrate biological and economic principles that comprise effective management decisions needed to produce profitable cattle, and to enhance the understanding and communication between all seg-

ments of the beef industry. The course material identifies the primary management principles and practices needed by commercial and seed stock producers to raise productive and profitable cattle that can meet the specifications needed by the beef industry. (30-0) *Equivalent to AGSS-810, 90-293.*

AGS-240 Animal Health (2 s.h.)

This course provides a basic overview of animal health principles and practices that enable students to identify the major diseases of livestock, prescribe treatment and properly administer treatment. The course includes a review of animal insects, parasites, and reproductive management. The course allows students to develop strategies aimed at disease prevention, disease treatment and improved animal performance while providing concern for the animal's well being. (30-0) *Equivalent to AGSS-801, 92-166.*

AGS-309A-B Livestock Production Lab I (1-2 s.h.)

Students will develop livestock husbandry skills associated with profitable beef and swine production. This hands-on experience emphasizes production practices that increase reproductive efficiency, insure herd health, increase pounds of market production, provide proper nutrition, and assure high market value. Students will assist in the selection, breeding, parturition, processing, feeding, fitting, and marketing of hogs and cattle. Students will evaluate, modify, and manage livestock facilities for maximum production efficiency. (0-30 to 60) *Equivalent to 92-270, AGSS-805A-B.*

AGS-310A-B Livestock Production Lab II (1-2 s.h.)

Students will develop livestock husbandry skills associated with profitable beef and swine production. This hands-on experience emphasizes production practices that increase reproductive efficiency, insure herd health, increase pounds of market production, provide proper nutrition, and assure high market value. Students will assist in the selection, breeding, parturition, processing, feeding, fitting, and marketing of hogs and cattle. Students will evaluate, modify, and manage livestock facilities for maximum production efficiency. (0-30 to 60) *Equivalent to 92-271, AGSS-806A-B.*

AGS-317 Animal Nutrition (2 s.h.)

Fundamentals of nutrition that deal with monogastric and ruminant animals. Materials covered will enable students to identify sources, composition and functions of various feedstuffs. Students will learn to evaluate and formulate livestock rations and will be able to make feeding recommendations based upon varying livestock, environment and management conditions. (30-0) *Equivalent to 90-171, AGSS-710.*

AGS-506 Swine Production (2 s.h.)

This course applies advanced principles of swine production and management. Areas of emphasis include: a review of swine husbandry practices, which result in greater performance and profit; livestock facilities requirements and maintenance, animal health, reproduction, and nutritional requirements. Students will have the opportunity to apply skills learned in the classroom to the swine operation at the NIACC Farm Lab. (30-0) *Equivalent to 90-169, AGSS-720.*

AGS-526A-C Swine A.I. Center Management (1-3 s.h.)

Students will be responsible for the operation and management of the Swine A.I. Center. During the period of instruction, students will

develop skills associated with the artificial insemination of swine. This hands-on experience utilizes NIACC's industry-leading swine lab facility which includes housing of gilts, sows and boars; bright and easily accessible training areas, a fully equipped laboratory for semen processing, evaluation, extension, packaging, and storage. The course emphasizes boar management, training, reproductive physiology, semen collection, handling and processing; sow reproductive physiology, semen evaluation and packaging, artificial insemination techniques, semen marketing, and business management. (15 to 45-30 to 90) *Equivalent to 92-262, AGSS-815A-C.*

AGS-811 Animal Technologies (1 s.h.)

It is highly recommended that students have a strong foundation in Computer Applications, Animal Science I and II, or demonstrated proficiency in each area. This course is designed for students seeking an Associate of Science Degree in Agriculture. Students will be involved with techniques and technologies that enable better management decision-making and improved economic efficiency of agricultural operations. Included in the course are Animal Reproductive Technologies, Embryo Transfer, Estrus & Ovulation Synchronization, Electronic Heat Detection, Quality Assurance Evaluation, and Food Safety. (10-15) *Equivalent to AGSS-816.*

ANT-105 Cultural Anthropology (3 s.h.)

This course embraces cultures from all continents; highlights major human subsistence patterns; and illustrates human adaptation to the environment, from the beginning of human history to the present. Individual studies enable students to experience cultures in-depth. The student's goal is to understand one's own culture from a historical perspective and to analyze the forces of today in terms of how those forces may affect the future of earth and mankind. (26-38) *Equivalent to SOCS-115, 80-160.*

ART-101 Art Appreciation (3 s.h.)

An introductory course designed to give a better understanding of art as an important force in present-day living. Aims to develop an appreciation of art and creative thinking through lectures, readings, and visual aids. Experimentation with a variety of tools, techniques, and materials is a meaningful part of the course. Recommended for nonart majors. Entry-level course. (45-0) *Equivalent to 10-101, ARTS-101.*

ART-102 Art for Elementary Education (3 s.h.)

Prerequisite: ART-101, Art Appreciation, or permission of instructor to remove prerequisite. This course is designed for elementary education majors or those who are planning to work with children pre-K to grade 6. Focuses on instructional planning for art studio and response activities with emphasis on interdisciplinary and multicultural approaches. Components are artistic development of children, peer teaching, field observation, and foundations of art education. (45-0) *Equivalent to 10-112, ARTS-103.*

ART-115 Graphic Design (3 s.h.)

Prerequisite: ART-120, Two-Dimensional Design, or permission of instructor. Creative problem solving through the exploration of aesthetic and technical aspects of graphic design using computer-aided design software. (20-50) *Equivalent to 10-202, ARTS-202.*

ART-116 Graphic Design II (3 s.h.)

Prerequisite: ART-115, Graphic Design. As a continuation of ART-115, Graphic Design, this course will emphasize the conceptual skills necessary to effectively integrate the principles of visual perception to design projects. Emphasis will be given to the role of color as it relates to visual communication. The theoretical, psychological and cultural aspects of color will be studied in the context of their application to appropriate graphic design decisions. Design software such as but not limited to Adobe InDesign, Photoshop, Illustrator and QuarkXpress will be utilized. (45-0)

ART-120 Two-Dimensional Design (3 s.h.)

Students/artists explore the process of visual problem solving through participation in class critiques of individual projects. Perception and structure: exploring visual order emphasizing two-dimensional concepts. (20-50) *Equivalent to 10-201, ARTS-201.*

ART-127 Digital Illustration (3 s.h.)

Prerequisites: ART-120, Two-Dimensional Design. Recommended: ART-187, Creative Photography or ART-115, Graphic Design. Creation and manipulation of digital imagery is explored in the context of creative expression. User interactivity, animation, full-color printing, and computer art theories are covered. The student completes visual projects with instructor guidance. (30-30) *Equivalent to 10-220, ARTS-220.*

ART-131 Digital Publication Design (3 s.h.)

Prerequisite: ART-115, Graphic Design, and GRA-173, Typography, or permission of instructor. Utilizing the skills gained in previous courses, Digital Publication Design will explore how to use conceptual design skills to systematically integrate photographs, type and illustration using page composition software, such as Adobe InDesign. The student will achieve an understanding of printing processes, pre-press, and post-press production, as well as paper specification. (45-0)

ART-133 Drawing (3 s.h.)

The development of visual perception in objective and subjective representation. Study of line, form, texture, and value in a variety of media stressing an individual's creative development. Entry-level course. (20-50) *Equivalent to 10-120, ARTS-120.*

ART-143 Painting I (3 s.h.)

Prerequisite: ART-120, Two-Dimensional Design; ART-133, Drawing; or ART-101, Art Appreciation. Beginning course planned to familiarize the student with the basic materials and tools of painting, the elements of pictorial organization, and the individual's creative development. Each student is encouraged to cultivate his or her own visual vocabulary. (45-0) *Equivalent to 10-210, ARTS-210.*

ART-144 Painting II (3 s.h.)

Prerequisite/Corequisite: ART-143, Painting I. Continuation of ART-143. Independent research, reading, and personal exploration of media and techniques. (45-0) *Equivalent to 10-211, ARTS-211.*

ART-173 Ceramics (3 s.h.)

An introductory course involving hand-building, wheel-throwing, glazing, and firing. Slides, lectures, and demonstrations. Ceramics facilities are located in the MacNider Museum, Mason City. (20-50) *Equivalent to 10-130, ARTS-130.*

ART-186 Digital Photography (3 s.h.)
Digital photography has rapidly become a critical part of journalism, graphic design, web-site design, and fine art. This course covers the anatomy of the digital camera and what features to look for before you buy, how to compose quality photos in a digital environment, adjusting/modifying photos on the computer using Adobe Photoshop and preparing photos for use in printed materials and on the Internet. (45-0)

ART-187 Creative Photography (3 s.h.)
An investigation into the relationship of basic photographic techniques to design, perception, and aesthetics. Each student is encouraged to cultivate his or her own visual vocabulary while working on photographic projects. (20-50) *Equivalent to 10-150, ARTS-150.*

ART-188 Creative Photography II (3 s.h.)
Prerequisite: ART-187, Creative Photography. Emphasis on exploring photographic materials in the development of a personal vision. Technical subject covered: lighting, advanced printing, and camera techniques. Only offered spring semesters. (20-50) *Equivalent to 10-151, ARTS-151.*

ART-203 Art History I (3 s.h.)
The study of the development of the visual arts of western civilization including painting, sculpture, architecture, and crafts from prehistoric origins through Gothic. (45-0) *Equivalent to 10-102, ARTS-104.*

ART-204 Art History II (3 s.h.)
The study of the development of the visual arts of western civilization including painting, sculpture, architecture, crafts, and photography from the Renaissance through the present time. (45-0) *Equivalent to 10-103, ARTS-105.*

AUT-104 Introduction to Automotive Technology (3 s.h.)
Prerequisite/Corequisite: AUT-115, Automotive Shop Safety. Instruction in service procedures, information and equipment. Classroom and laboratory activities emphasize routine vehicle maintenance in the care of fluids, tires, batteries, lighting, belts, hoses, filters, and cooling systems. (30-60) *Equivalent to AUTO-701, 98-144.*

AUT-115 Automotive Shop Safety (1 s.h.)
This course is designed to acquaint the student with the proper personal and shop safety procedures needed to function in an automotive shop. Tool identification, tool care, and maintenance will be covered along with careers and career options in the automotive industry. Policies, procedures and orientation will also be included in this course. (15-5)

AUT-163 Automotive Engine Repair (3 s.h.)
Prerequisite/Corequisite: AUT-104, Introduction to Automotive Technology. Instruction/laboratory procedures for engine repair diagnosis, removal, disassembly, inspection, overhaul and reassembly of automotive and/or light truck engines according to manufacturer's specifications. (15-90) *Equivalent to AUTO-711, 98-148.*

AUT-205 Automotive Automatic Trans/Transaxle (5 s.h.)
Prerequisite/Corequisite: ELT-115, Electronic Concepts, or instructor's permission. Instruction in diagnosis, maintenance, and overhaul of major automatic transmissions and transaxles in various makes of automobiles. (45-90) *Equivalent to AUTO-801, 98-179.*

AUT-303 Automotive Manual Drive Trains and Axles (3 s.h.)
Prerequisite/Corequisite: AUT-104, Introduction to Automotive Technology. Instruction/laboratory procedures for servicing, diagnosing, and repairing/replacing standard transmissions and clutches, transaxles, and differentials. (15-90) *Equivalent to AUTO-712, 98-149.*

AUT-403 Automotive Suspension & Steering (3 s.h.)
Prerequisite/Corequisite: AUT-104, Introduction to Automotive Technology. Instruction/laboratory service procedures for inspection, adjustments, alignment, repair and/or replacement of suspension and steering components. (15-90) *Equivalent to AUTO-703, 98-146.*

AUT-503 Automotive Brake Systems (3 s.h.)
Prerequisite/Corequisite: AUT-104, Introduction to Automotive Technology. Instruction in the theory and operating principles of drum, disc, hydraulic and anti-lock brake systems (ABS). Laboratory procedures for inspecting, testing, diagnosing, repairing and/or replacing conventional, power, and ABS brake system components. (15-90) *Equivalent to AUTO-702, 98-145.*

AUT-612 Automotive Electrical Systems I (3 s.h.)
Prerequisite/Corequisite: AUT-104, Introduction to Automotive Technology and ELT-115, Electronic Concepts. Instruction in the electrical and electronic principles and testing procedures as applied to automotive circuits and microprocessors. Laboratory procedures to include the utilization of wiring schematics and test equipment for diagnosing and repairing instrumentation, electrical accessory, and lighting systems. (30-60) *Equivalent to 98-147, AUTO-710.*

AUT-657 Automotive Electrical Systems II (5 s.h.)
Prerequisite/Corequisite: AUT-612, Automotive Electrical Systems I, or instructor's permission. Strong mechanical aptitude. Instruction in operation, service, and troubleshooting of automotive electronic/electrical circuits and systems; to include starting, charging, and ignition systems. (45-60) *Equivalent to AUTO-810, 98-209.*

AUT-703 Automotive Heating/Air Conditioning (3 s.h.)
Prerequisite/Corequisite: ELT-115, Electronic Concepts, or instructor's permission. Instruction in theory and operation of automotive heating and air-conditioning systems including heat transfer and pressures. Laboratory procedures for servicing and maintaining heating and air conditioning systems and controls utilizing approved refrigerant recovery/recycling equipment and methods. (30-60) *Equivalent to AUTO-715, 98-133.*

AUT-832 Automotive Fuel Delivery Systems (3 s.h.)
Prerequisite/Corequisite: ELT-115, Electronic Concepts, or instructor's permission; and strong mechanical aptitude. Instruction in the fundamentals of operation and service of complete fuel systems, including storage, delivery, and metering. (30-30) *Equivalent to AUTO-802, 98-208.*

AUT-840 Automotive Computerized Controls (3 s.h.)
Prerequisite/Corequisite: ELT-115, Electronic Concepts, or instructor's permission. Instruction in electronics theory as it applies to automotive computers, sensors, and control devices, with emphasis on developing an organized approach to diagnostics. (30-30) *Equivalent to AUTO-720, 98-180.*

AUT-857 Advanced Engine Performance (6 s.h.)
Prerequisite/Corequisite: AUT-840, Automotive Computerized Controls, or instructor's permission. Strong mechanical aptitude. Instruction in the theory and operating principles of automotive computerized engine control systems and other advanced electronic systems with emphasis on utilizing relevant vehicle data and service information, lab and oscilloscopes, DVOMs, and scan tools to test/diagnose/repair system malfunctions. (60-90) *Equivalent to AUTO-821, 98-212.*

AUT-865 Automotive Engine Performance Testing (5 s.h.)
Prerequisite/Corequisite: AUT-840, Automotive Computerized Controls, or instructor's permission. Strong mechanical aptitude. Instruction in the theory and operating principles of automotive emission systems with emphasis on utilizing relevant vehicle data and service information, lab and, oscilloscopes, DVOMs, and scan tools to test/diagnose/repair system malfunctions. (45-90) *Equivalent to AUTO-820, 98-211.*

BCA-100 Computer Literacy (1 s.h.)
Prerequisite: None. This course is intended to familiarize the student with Windows-based personal computers including introductory file control and management using Windows, exposure to different software, and basics on how to use the Internet. Students with little or no computer background are encouraged to take this course. This course has been designated as a pass/no pass course. (0-30) *Equivalent to 15-114, COMP-100.*

BCA-101 Intro to Computers and Information Systems (3 s.h.)
Emphasis on computer literacy and business applications of computer software. Students do business problems using electronic spreadsheets, word processing software, database management software, and presentation software. Students also are exposed to web use, file management, and simple web page development. (45-0) *Equivalent to 15-140, COMP-110.*

BCA-103 Management Information Systems (3 s.h.)
Prerequisite: BCA-101, Introduction to Computers and Information Systems, or permission of the instructor. The primary goal of MIS I is to prepare students to be productive participants in an information society. The course is designed to develop a broad understanding of business information systems, various ways to discern information from an information system, and look at ways to distribute this information. The student will also learn the basic principles and techniques for developing simple computer-based information systems for managerial decision support systems through an extensive group project component of the course. (45-0) *Equivalent to 15-141, COMP-111.*

BCA-118 Introduction to the PC (1 s.h.)
This course provides an introduction to the desktop PC, its parts and basic operation. The student learns how to operate the computer, work within the windows environment, and manipulate files.

Course exercises will include using the MS Office Suite, including Word, Excel, Access, and Outlook to process documents, lay out spreadsheets, compile databases, and send e-mail. Students also learn to explore the Internet to research information. (10-20) *Equivalent to COMP-701, 91-159.*

BCA-119 Computer Orientation (1 s.h.)
Introduction to basic computer hardware and software functions. Emphasis on using the computer as a tool to create personal and business documents. Introductory Windows, word processing, spreadsheet, presentation, and Internet units give students an opportunity to view software capabilities and use some of the features. (15-15) *Equivalent to 96-162, COMP-702.*

BCA-129 Basic Word Processing (2 s.h.)
This course is designed to introduce students to computers and the fundamentals of word processing. The students will progress from basic through intermediate features of word processing software. Also Open Entry. (20-20) *Equivalent to 15-211, COMP-105.*

BCA-136 Advanced Word Processing (3 s.h.)
Prerequisites: BCA-215, Computer Business Applications, and BCA-129, Basic Word Processing. Students will learn intermediate to advanced functions of Microsoft Word including customizing templates, recording macros, creating on-screen forms, managing long documents, creating hyperlinks, and publishing on the World Wide Web. Upon completion of the course, the students may be prepared to take the Microsoft Office Specialist expert exam. (30-30) *Equivalent to 15-136, COMP-207.*

BCA-152 Electronic Spreadsheets (3 s.h.)
Prerequisite: BCA-101, Introduction to Computers and Information Systems, or BCA-215, Computer Business Applications. Learn the fundamentals of spreadsheets, databases, and business graphics using appropriate software. (30-30) *Equivalent to 15-175, COMP-115.*

BCA-163 Microsoft Access (1 s.h.)
This course is designed to take students through the core competencies for Microsoft Access in preparation for the Microsoft Office Specialist (MOUS) certification test. (5-20) *Equivalent to 15-225, COMP-113.*

BCA-170 Personal Information Management (2 s.h.)
The course is designed to take students through the core competencies for Microsoft Outlook in preparation for the Microsoft Office Specialist certification test. (15-30) *Equivalent to 15-227, COMP-112.*

BCA-174 Basic Presentation Software (1 s.h.)
This course is designed to take students through the core competencies for Microsoft PowerPoint in preparation for the Microsoft Office Specialist (MOUS) certification test. (5-20) *Equivalent to 15-226, COMP-114.*

BCA-182 Intro to Microsoft Publisher 2002 (1 s.h.)
Introduction to Microsoft Publisher 2002 demonstrates layout and design techniques to create brochures, newsletters, and publish a web site to the Internet. This course has been designated as a pass/no pass course. (5-20) *Equivalent to 15-244, BUSN-252.*

BCA-184 Comprehensive Web Page Design Software (3 s.h.)

Prerequisite: CIS-224, Server Side Scripting, or permission of the instructor. This course will build on the students' prior Internet Programming knowledge and give them an overview of various web application development resources, tools, languages, and technologies. Students will be introduced to various current tools and technologies available to a Web Developer for development and begin to understand the situations each works best in. Emphasis will be on compare and contrast techniques, proper planning, relating the syntax and elements to other tools and languages, knowledge transfer, how interaction takes place, design, and developing an understanding and use of programming resources. (45-0) *Equivalent to 15-199, ECOM-225.*

BCA-185 Beginning Web Page Development (3 s.h.)

This class covers the basics of building a web page. Students will learn basic coding with HTML and explore web development products such as Nvu to build a web page. Students will also learn how to post a web page on web server to be seen on the Internet, add graphics, change fonts, add colors, develop navigation, and design tables. (45-0) *Equivalent to 15-137, ECOM-100.*

BCA-203 E-Commerce Cases (4 s.h.)

Prerequisite: Sophomore status in the E-Commerce, Web Design and Development program or permission of instructor. Investigate current E-Commerce basics and real life scenarios regarding electronic business practices. This capstone course will tie together previous E-Commerce courses to real life applications. (60-0) *Equivalent to 15-194, ECOM-220.*

BCA-215 Computer Business Applications (3 s.h.)

Emphasis on business applications of computer software. Students do business problems using word processing, electronic spreadsheet, and database management software. Students are also exposed to Windows operating systems, presentation software, and the Internet. (45-0) *Equivalent to 15-134, COMP-101.*

BCA-270 Learn to Buy and Sell on eBay (1 s.h.)

Learn to Buy and Sell on eBay demonstrates skills of entitling, creating advertisements, uploading photographs, conduct financial transactions and protect against fraud. This course has been designated as a pass/no pass course. (5-20) *Equivalent to 15-245, BUSN-253.*

BCA-280 Introduction to QuickBooks (1 s.h.)

Introduction to QuickBooks provides a traditional approach to small business accounting by creating a chart of accounts, reconciling checking accounts, creating invoices, receipts, statements, a payable registry, inventory, a receivables registry, and generating reports. This course has been designated as a pass/no pass course. (5-20) *Equivalent to BUSN-254, 15-246.*

BCA-601 Create a Website (1 s.h.)

Create a Website will demonstrate how to create, build, design, and implement a functional website for business, personal, and nonprofits. (8-14)

BCA-602 Microsoft Excel (1 s.h.)

Microsoft Excel demonstrates building a spreadsheet using mathematical formulas, functions, wizards, graphs, charts, and databases. (8-14)

BCA-603 Microsoft Access for the Workplace (1 s.h.)

Using Microsoft's powerful database, Access, business people can create, store, and locate any amount of information. Learn to create tables, forms, queries, reports, and relationships. (8-14)

BIO-102 Introductory Biology (3 s.h.)

Study of organismic biology including organization, metabolism, and reproduction of living systems. Includes evolutionary patterns, inheritance, growth, development, ecosystems, and structure-function relationships among organisms. (45-0) *Equivalent to BIOL-101, 70-101.*

BIO-103 Introductory Biology Lab (1 s.h.)

Prerequisite: Credit for or current enrollment in BIO-102, Introductory Biology. This is a lab component intended to supplement Introductory Biology. (0-30) *Equivalent to BIOL-102, 70-102.*

BIO-123 Inquiry Into Life Science (3 s.h.)

Prerequisite: EDU-216, Introduction to Teaching. This course is specifically designed for education majors. Topics include ecosystems, plants, gene, homeostasis, microbes and metabolism. These topics are presented while modeling effective pedagogy when it comes to teaching science. The course is modeled on the *Teaching Standards and Content Standards of the National Science Education Standards*. (30-30) *Equivalent to 70-190, BIOL-103.*

BIO-151 Nutrition (3 s.h.)

Prerequisite: three credit hours of high school inorganic chemistry. Physiology or biology helpful, but not essential. Basic math skills will be employed. Introduces the science of human nutrition and its application to the role of the nurse, other allied health professional or educator in promoting good nutrition throughout the life span. Emphasis is placed on the study of macro and micro nutrient needs; and the use of science-based evidence for evaluation of findings and adoption of applications promoting sound nutritional practices among patients, clients and the community at large. Some principles of diet modification are presented as they relate to common chronic health problems, such as heart disease and diabetes. (45-0) *Equivalent to 70-200, BIOL-205.*

BIO-152 Health and Nutrition (3 s.h.)

The science of health and its application to the individual, home, community, and school. Elementary physiology, nutrition, dependency, and current health problems of national concern. (45-0) *Equivalent to 70-110, BIOL-105.*

BIO-157 Human Biology (4 s.h.)

Course provides overview of human biology for nonscience majors. Includes study of cells, tissues, organs, and systems with emphasis on interrelatedness. Coverage also includes genetics, and aspects of various human diseases. (45-30) *Equivalent to 70-111, BIOL-108.*

BIO-186 Microbiology**(4 s.h.)**

Morphology, physiology, taxonomy, and relationship of microorganisms to disease. In-depth laboratory study and suitable lecture material with applications to agriculture, industry, and medicine. (45-30) *Equivalent to 70-109, BIOL-109.*

BIO-202 Biology I**(4 s.h.)**

Prerequisite/Corequisite: concurrent enrollment in CHM-153, College Chemistry I, or CHM-166, General Chemistry I, is strongly encouraged. This course, with the addition of BIO-203, Biology II, is a detailed study of the fundamental principles of biology, including the study of ecology and environmental issues, cell structure and function, energy transfer, inheritance, and evolution. (45-30)

Note: Students enrolling in Biology I or II should plan on taking both semesters of the sequence at NIACC, preferably during the same academic year. Problems may result for the student who takes one Biology semester at NIACC and the other semester at a different institution. *Equivalent to 70-105, BIOL-201.*

BIO-203 Biology II**(4 s.h.)**

Prerequisite: BIO-202, Biology I or permission of instructor. This course, with the addition of Biology I, is a study of evolution and the diversity of life. (45-30)

Note: Students enrolling in Biology I or II should plan on taking both semesters of the sequence at NIACC, preferably during the same academic year. Problems may result for the student who takes one Biology semester at NIACC and the other semester at a different institution. *Equivalent to 70-108, BIOL-202.*

BIO-206 Anatomy and Physiology I**(4 s.h.)**

Prerequisite: Human Biology or Introductory Biology highly recommended, but not required. A study of the human body emphasizing the complementary nature of structure and function, molecular and cellular interactions, homeostasis, and metabolic processes. Includes a study of cells, tissues, membranes, skeletal, muscular, and reproductive systems. (45-30)

Note: Students enrolling in Anatomy and Physiology I or II should plan on taking both semesters of the sequence at NIACC. Problems may result for the student who takes one A&P semester at NIACC and the other semester at a different institution. *Equivalent to 70-250, BIOL-220.*

BIO-207 Anatomy and Physiology II**(4 s.h.)**

Prerequisite: BIO-206, Anatomy and Physiology I, or permission of instructor. A continuation of BIO-206, Anatomy and Physiology I. Includes a study of the circulatory, respiratory, digestive, endocrine, urinary, and nervous systems. Cat heart, kidney, brain, and eye dissections are performed in the laboratory. (45-30)

Note: Students enrolling in Anatomy and Physiology I or II should plan on taking both semesters of the sequence at NIACC. Problems may result for the student who takes one A&P semester at NIACC and the other semester at a different institution. *Equivalent to 70-251, BIOL-221.*

BIO-922A-D Field Studies in Biology**(1-4 s.h.)**

Prerequisite: permission of the instructor. Field-based exploration of fundamental concepts of ecology and biology through active investigation. Use of nature centers, field professionals, parks, and the environment itself for learning and interpretation. Past trips include Belize, tropical ecology; Washington state, temperate rainforest and tide pool ecology; northern Minnesota, boreal forest ecology. (5-30 to 120) *Equivalent to 70-204, BIOL-922A-D.*

BMA-168 Steam Plant Operations I (Low Pressure Boilers)(2 s.h.)

This course presents principles of safe operation and maintenance of low-pressure boiler systems and prepares students for the state certification exam. (30-0)

BMA-169 Steam Plant Operations II (High Pressure Boilers)**(2 s.h.)**

This course provides an overview of high pressure boiler operations and is used as a preparatory course for the state boiler technician exam. (30-0)

BUS-102 Introduction to Business**(3 s.h.)**

An overview of the phases and functions of the business enterprise. Units of instruction include the organization, financing, production, and contemporary issues in business. The course provides an awareness and understanding of the complexities of the business world. (45-0) *Equivalent to 15-101, BUSN-101.*

BUS-107 Business Careers**(1 s.h.)**

A preparatory course that helps students plan for the world of work. Instruction focuses on: planning a career in business, searching for a job, preparing career search documents, interviewing, job securement, and job-keeping skills. This is a pass/no pass course. (15-0)

BUS-121 Business Communications**(3 s.h.)**

This course will help the student become an effective communicator in the business world. Basic written communication will be emphasized through practice in grammar structure, vocabulary building, and organization of thoughts. These skills will then be implemented when the student plans and writes business letters and interoffice memorandums. A secondary emphasis will be placed on oral communication, listening skills, and nonverbal communication. (45-0) *Equivalent to 15-212, ENGL-705.*

BUS-134 The Successful Entrepreneur**(2 s.h.)**

Students will learn the personal traits and characteristics necessary to succeed in the fast-paced environment. This course will examine the various skills and habits necessary for being a successful entrepreneur. Various case studies will be examined as to why some businesses fail while others succeed. Students will identify their individual strengths and weaknesses and will learn what area they need to work on to insure success in an entrepreneurial venture. Students will be exposed to many types of entrepreneurial ventures, and will generate personal preferences for the types of ventures they would like to own. (30-0)

BUS-136 Creativity, Innovation & Opportunity Analysis**(2 s.h.)**

This course will teach students to assess the current economic, social, and political climate for entrepreneurial ventures. Students will be able to explain how demographic, creativity, innovation, technology and social changes create business opportunities. Students

will assess the personal appropriateness of their business idea based on their strengths and skills, and professional and financial goals. An initial market assessment will be made and students will test their concepts through basic market research. (30-0)

BUS-142 Planning the Entrepreneurial Venture (3 s.h.)

Prerequisite: BUS-102, Introduction to Business; BUS-134, The Successful Entrepreneur; BUS-136, Creativity, Innovation and Opportunity Analysis; and, ACC-111, Introduction to Accounting or ACC-121, Principles of Accounting I. Planning the Entrepreneurial Venture is a blended-learning course designed to teach students how to research, develop, and write detailed start-up Business Plans, which can be used to create successful businesses. The blended-learning environment provides a dynamic, interactive experience that combines the flexibility of Internet-based e-learning with the benefits of face-to-face instruction. (45-0)

BUS-151 Introduction to E-Commerce (3 s.h.)

Prerequisite: BCA-101, Introduction to Computers and Information Systems, or permission of the instructor. This course provides students with foundational skills and general information about electronic business solutions on the World Wide Web. Topics will include features of Internet marketing, sales, computer graphics, and network security. Students will also be introduced to Internet-related programming concepts and tools used to create web-based solutions. (45-0) *Equivalent to 15-191, ECOM-101.*

BUS-158 Internet Law (3 s.h.)

Prerequisite: BCA-101, Introduction to Computers and Information Systems, or permission of the instructor. An overview of the legal issues which have arisen in response to Internet usage, particularly those legal issues which impact web-based commerce. Specific issues studied include jurisdiction, copyright, trademarks, contract, taxation, securities, offerings, privacy, obscenity, defamation, security, and computer crime. (45-0) *Equivalent to 15-197, BUSN-122.*

BUS-161 Human Relations (3 s.h.)

The study of how people satisfy both personal growth needs and organizational goals. Human Relations looks at what can be done to anticipate problems, resolve them, or prevent them from happening. Emphasis is on practical knowledge which can be applied at work or at home. Significant developments in recent years have increased the importance of interpersonal skills in almost every type of setting; these trends provide support for the necessity of acquiring competence in human relations. (45-0) *Equivalent to 15-241, BUSN-105.*

BUS-185 Business Law I (3 s.h.)

Law as applied to business transactions and business relationships. An introduction to jurisprudence and the courts, contracts, commercial paper, sales, and security agreements. (45-0) *Equivalent to 15-120, BUSN-120.*

BUS-186 Business Law II (3 s.h.)

Prerequisite: BUS-185, Business Law I recommended. A continuation of BUS-185. Agency, corporations, partnerships, bailments, real property, wills, trusts, insurance, bankruptcy, and government regulation of business. Some information on international law and liability of accountants and other professionals. (45-0) *Equivalent to 15-121, BUSN-121.*

BUS-194 Advanced Professional Leadership Development (1 s.h.)

This course is designed for the experienced business manager and supervisor or the employee that is on the management fast track. This course involves the study of the major management functions of building and leading teams, communications, financial management, coaching and mentoring, presentation skills, business writing, organizational design, managing change, strategic planning, quality management, creative thinking, and negotiation skills. Course is repeatable for credit to a maximum of 3 credit hours. (15-0) *Equivalent to 15-231, BUSN-201.*

BUS-225A-E Business Internships (1-5 s.h.)

Prerequisites: 1. Students must enroll in and pass BUS-107, Business Careers. 2. Students must have completed and filed an Application for Employment with their Internship Coordinator. 3. Students must have their proposed experience approved by the Internship Coordinator before they may register and begin. Business Internships is a learning experience which is: 1. based on practical work experience, 2. related directly to the student's program of study, 3. individualized to enable the student to gain valuable work experience and help determine career choices, and 4. geared to the student's academic knowledge, personal development and professional preparation. Instructor's consent required. Course is repeatable for a maximum of 15 credit hours. (0-60 to 300)

BUS-255 60-Hour Real Estate Pre-license (3 s.h.)

This pre-license course is required by the Iowa Real Estate Commission prior to examination for an Iowa Real Estate Salesperson License. Upon completion of this curriculum, participants will be exposed to principles of real estate, terminology, mathematical calculations, procedures and ethics necessary to enable them to understand the real estate profession. This course prepares them to take the Real Estate Salesperson Examination, and to function as a well informed real estate salesperson. (30-30) *Equivalent to 15-207, BUSN-210.*

BUS-260 Introduction to Insurance (3 s.h.)

Principles of insurance and risk, including personal and business viewpoints in regard to life, health, property, and liability risks. (45-0) *Equivalent to 15-190, INSS-101.*

BUS-266 Property and Casualty Insurance (3 s.h.)

Prerequisite/Corequisite: BUS-260, Introduction to Insurance. This course is designed to provide instruction that will provide a high level of understanding of property and casualty insurance. Topics covered include fire, homeowners, dwelling, auto, business and professional liability, crime and fidelity, worker's compensation, and applications from a personal and commercial perspective. (45-0) *Equivalent to 15-195, INSS-102.*

BUS-267 Life, Health, and Disability Insurance (3 s.h.)

Prerequisite/Corequisite: BUS-260, Introduction to Insurance. This course is designed to provide instruction in a variety of areas giving the student a good understanding of life insurance, health insurance, and the role and application of both within the industry. (45-0) *Equivalent to 15-200, INSS-103.*

BUS-298 Seminar in Entrepreneurship (3 s.h.)
Prerequisite: BUS-134, The Successful Entrepreneur, and BUS-136, Creativity, Innovation and Opportunity Analysis. Course will combine group discussions with an actual case project at a local entrepreneurial firm. Students will have an opportunity to apply business skills learned throughout their NIACC program as they complete a project for a local entrepreneurial venture. Students also will discover key entrepreneurial success characteristics. (15-38) *Equivalent to 15-173, ENTR-103.*

CFR-100 Computer Forensics I (3 s.h.)
Prerequisite: NET-113, IT Essentials, or permission of instructor. This course deals with the preservation, identification, extraction, documentation and interpretation of computer data. Topics covered include evidence handling, chain of custody, collection, preservation, identification and recovery of computer data. This course will feature the use of NTI forensics tools. (60-0)

CHM-122 Introduction to General Chemistry (4 s.h.)
Prerequisite: MAT-063, Elementary Algebra, or equivalent. A one-semester college chemistry course which surveys important concepts and topics of chemistry. Among these are the metric system of measurement, atomic theory of matter, energy levels and atomic structure, the periodic table, ionic and molecular compounds, ionic and covalent bonding, chemical reactions, and reaction equations and calculations. Laboratory work is an important part of this course. High school chemistry is not a prerequisite. This course is not intended for science majors (but may be appropriate as preparation for a more thorough beginning chemistry course). (45-30) *Equivalent to 70-140, CHEM-101.*

CHM-153 College Chemistry I (5 s.h.)
Prerequisite: MAT-063, Elementary Algebra, or equivalent. First semester of a two-semester sequence intended for nonscience majors. Introduction to the basic concepts and facts of chemistry. Topics include the metric system of measurement, atomic theory of matter, energy levels and atomic structure, the periodic table, ionic and molecular compounds, ionic bonding, covalent bonding and molecular structure, classification of chemical reactions, and reaction equations and chemical calculations. This course treats these topics in more depth than Introduction to General Chemistry (CHM-122); however, high school chemistry is NOT a prerequisite. Laboratory work is an important part of this course. (45-60) *Equivalent to 70-135, CHEM-110.*

CHM-154 College Chemistry II (5 s.h.)
Prerequisite: CHM-153, College Chemistry I, or equivalent. The continuation of CHM-153, College Chemistry I, this is the second semester of a two-semester sequence intended for non-science majors. Topics include a review and extension of first-semester material on chemical calculations, reaction rates, chemical equilibrium and acid-base chemistry, electron-transfer (oxidation-reduction) reactions and electrochemical cells, and, as time permits, introductions to organic and biological chemistry. Laboratory work is an important part of this course. (45-60) *Equivalent to 70-136, CHEM-111.*

CHM-166 General Chemistry I (5 s.h.)
Prerequisite: satisfactory completion of one year of high school chemistry; MAT-102, Intermediate Algebra, or the equivalent.

Atomic structure, stoichiometry, thermochemistry, reactions in aqueous solution, chemical bonding and molecular structure, structure-property relationships. (45-60) *Equivalent to 70-137, CHEM-210.*

CHM-176 General Chemistry II (5 s.h.)
Prerequisite: CHM-166, General Chemistry I, or equivalent. Physical properties (gases, liquids, solids), chemical equilibrium and kinetics, acid-base chemistry, chemical thermodynamics, electrochemistry, introduction to organic chemistry and polymers. (45-60) *Equivalent to 70-138, CHEM-211.*

CHM-263 Organic Chemistry I (5 s.h.)
Prerequisite: CHM-154, College Chemistry II, or CHM-176, General Chemistry II. Survey of the major classes of organic compounds emphasizing molecular structure, stereochemistry, reaction mechanisms and synthesis. Laboratory work includes procedures of distillation, solvent extraction, chromatography, polarimetry and the use of both macroscale and microscale laboratory glassware. (45-60) *Equivalent to 70-274, CHEM-220.*

CHM-273 Organic Chemistry II (5 s.h.)
Prerequisite: CHM-263, Organic Chemistry I. Continuation of CHM-263 including spectroscopic methods for molecular structure determination. Laboratory work involving the procedures introduced in CHEM-263 and the use of infrared spectroscopy and gas chromatography for compound identification. (45-60) *Equivalent to 70-275, CHEM-221.*

CIS-119 Introduction to Programming (4 s.h.)
Prerequisite: CIS-125, Intro to Programming Logic with Language, or permission of the instructor. This course provides students exposure to computer program design, structure, development, and troubleshooting through an examination of such topics as logic concepts, variables, input/output, interactive constructs, conditional flow, modular design, create and manage databases, debugging, cgi scripting, object-oriented programming, and the comparison of programming languages. (60-0) *Equivalent to 15-168, ISTS-105.*

CIS-125 Intro to Programming Logic with Language (3 s.h.)
Prerequisite: BCA-101, Introduction to Computers and Information Systems, or permission of the instructor. A fundamental requirement for people in the Information Technology field is the ability to organize a solution to a problem. This, in and of itself, is a difficult task. Often, however, this skill takes a backseat to learning code or is lost in the complexity of the task. Intro to Programming Logic w/Language concentrates on the process of developing a logical algorithmic solution to a problem. (45-0) *Equivalent to 15-196, ISTS-125.*

CIS-155 Introduction to Video Game Testing (3 s.h.)
Intro to Video Game Testing defines the steps involved in taking the basic idea for a video or computer game through the formal steps of definition and implementation. The course is meant to provide the overview of how testing is incorporated into video game production and development. Basic testing concepts will be introduced to the students. Students will develop their working video game. The students will then thoroughly test other students' video games. (45-0)

CIS-156 Testing Concepts (4 s.h.)

Prerequisite: CIS-155, Introduction to Video Game Testing. Covers the basics of testing, including the test plan, the steps in fully testing new software throughout the product lifecycle, and ensuring complete adherence to client requirements. The following areas will be covered: test phases, effective testing, combinatorial testing, test flow diagrams, clean room testing, and test trees. (60-0)

CIS-172 Java (4 s.h.)

Prerequisite: CIS-119, Introduction to Programming, or permission of the instructor. This course introduces students to doing purely object-oriented programming using the Java syntax. Emphasis is placed on using Java for web development. Students learn how to create their own objects and employ these objects as solutions to common real world-based web problems using applications and applets. Students will learn to create interactive elements and simple GUI elements. Use of the java.awt components, event-handling model, containers, and layout managers will also be emphasized. File handling techniques and multithreading will be presented, along with JavaBeans. Applications and applets will be built from button up to facilitate in deeper understanding of the concepts used in OOP. (60-0) *Equivalent to 15-204, ISTS-220.*

CIS-210 Web Development I (3 s.h.)

This course covers comprehensively the latest version of HTML. Students will learn good coding practices and be introduced to web development tools and FTP programs. Students will also be introduced to CSS (Cascading Style Sheets), image management, browser helper applications, and basic JavaScript. (45-0) *Equivalent to 15-169, ECOM-110.*

CIS-211 Web Development II (3 s.h.)

Prerequisite: CIS-210, Web Development I, and CIS-125, Intro to Programming Logic w/Language, or permission of instructor. This course will teach the fundamentals of client-side web scripting with JavaScript. Students will learn about browser-related object models and their associated properties, events, and methods. Students will work with these models to create documents on the fly, create pop-up documents, manage images, manage framesets, create roll-overs, enable and validate form elements, manage cookies, create and maintain basic databases, define and enable custom objects, and create various web-related tools. Creating e-mail, writing files, and accessing databases using user form input and server-side scripting will also be addressed. (45-0) *Equivalent to 15-186, ECOM-120.*

CIS-224 Server Side Scripting (4 s.h.)

Prerequisite: CIS-119, Introduction to Programming, and CIS-332, Database and SQL, or permission of the instructor. Students will learn to develop and implement web applications using server side scripting with emphasis on a single language. Additional server side scripting languages and technologies will be discussed. Much of the languages object model and methods will be covered with focus on how to work with these objects and procedures. Students will gain hands-on experience while writing real world-based web applications from the ground up. Database basics will also be learned along with SQL. Simple databases will be created for use with web application back-ends. Students will learn to access and modify their databases by building front-ends for them using server side scripting and embedded SQL. Sufficient time will be spent

building solutions that require using ASP, HTML, JavaScript, and various other server side scripting technologies together. (60-0) *Equivalent to 15-203, ECOM-203.*

CIS-246 Intermediate Testing Concepts (4 s.h.)

Prerequisite: CIS-156, Testing Concepts, or permission of instructor. Instruction in manual testing, hardware testing, and cross-platform testing. Manual testing is and will always be the cornerstone to effective testing. Cross-platform testing includes learning techniques for ensuring software quality on more than one machine type. Testing environments will include Windows/Mac/Linux computers and various video-gaming consoles. (60-0)

CIS-275 Advanced Testing Concepts (3 s.h.)

Prerequisite: CIS-246, Intermediate Testing Concepts, or permission of instructor. Instruction in testing automation, capture playback testing, performance testing, regression testing and defect triggers. (45-0)

CIS-276 Testing Cases (4 s.h.)

Prerequisite: CIS-246, Intermediate Testing Concepts, or permission of the instructor. Should be taken last semester of student's Testing program of study. Investigate current testing procedures and real life scenarios regarding software and product testing business practices. This capstone course will tie together previous testing courses to real life application. (60-0)

CIS-332 Database and SQL (3 s.h.)

Prerequisite: BCA-101, Introduction to Computers and Information Systems, or permission of the instructor. This course introduces students to database concepts, with topics such as database structure and design, planning, modeling, database software and servers, SQL, reports, fault tolerance, and administration being covered. Exposure to current and popular database systems will be provided. (45-0) *Equivalent to 15-174, COMP-205.*

CON-107 Construction Safety (2 s.h.)

This course covers Safety and Health Standards for the Construction Industry (29 CFR Part 1926). Safety in the construction industry is as essential to securing the well being of the company as it is to protecting the welfare of the worker. Changes in the labor market, insurance costs, and OSHA compliance requirements make it imperative that supervisors and workers receive adequate safety training to develop, practice, and maintain safe working conditions at construction work sites. (30-0) *Equivalent to BUIL-700, 91-161.*

CON-110 Construction Drawing (1 s.h.)

Students will learn about the fundamentals of drawing using manual and computer-aided drafting skills. Construction Drawing is designed to give students the skills necessary to produce a set of working drawings. Students will learn to draw plans, sections, elevations, details, and schedules. (15-0) *Equivalent to BUIL-705, 91-173.*

CON-112 Blueprint Reading/Estimating (3 s.h.)

Residential and commercial blueprint reading and materials estimating covers understanding drawings, the language of construction. Students learn how to gather and use information from prints and drawings to estimate quantities of materials and perform construction work processes. (45-0) *Equivalent to BUIL-720, 91-198.*

CON-117 Building Codes and Standards (2 s.h.)
This course covers construction-related building codes and standards. Presentations illustrate which of the various codes and standards affect specific types of construction. Students learn how competent construction workers bear responsibility for knowing, understanding, and complying with codes and standards during all phases of the construction process. (30-0) *Equivalent to BUIL-715, 91-174.*

CON-144 Carpentry I (8 s.h.)
General skills instruction covers safety; hand tools; power tools; print reading; builders level, transit, and laser; scaffolding; rigging; arc welding, cutting, and burning. Residential skills instruction covers site work; building layout; form work; floor and sill framing; wall and ceiling framing; roof framing; stair construction; exterior walls, soffits, and cornice construction; roof coverings; window and door installation; cabinet fabrication; and running trims and hardware installations. (60-210) *Equivalent to BUIL-703.*

CON-145 Carpentry II (8 s.h.)
General skills instruction covers safety; hand tools; power tools; print reading; builders level, transit, and laser; scaffolding; rigging; arc welding, cutting, and burning. Commercial skills instruction covers site work; building layout; footing, wall, stair, column, beam, and deck form constructions; wood and steel stud framing; exterior walls and canopy constructions; cabinet fabrication; wood and steel jamb, window, door, millwork, and hardware installations; office partition, and acoustical ceiling installations. (60-210) *Equivalent to BUIL-710.*

CON-211 Carpentry Fundamentals I (3 s.h.)
General skills instruction covers safety; basic hand tools; basic power tools; job site safety; print reading; construction materials and systems; construction fasteners and processes; residential construction practices; and commercial construction practices. (15-60) *Equivalent to BUIL-701, 91-151.*

CON-212 Carpentry Fundamentals II (3 s.h.)
General skills instruction covers safety; basic hand tools; basic power tools; job site safety; print reading; construction materials and systems; construction fasteners and processes; residential construction practices; and commercial construction practices. (15-60) *Equivalent to BUIL-702, 91-152.*

CRJ-100 Introduction to Criminal Justice (3 s.h.)
Arrest, search and seizure; review of court systems; procedures from incident to final disposition; principles of constitutional, federal, state, and civil laws as they apply to and affect law enforcement. (45-0) *Equivalent to CRIM-107, 80-291.*

CRJ-105 Foundations in Criminal Justice (3 s.h.)
An overview of essential topics in private or public criminal justice careers. Units of instruction include crime scene forensic techniques, investigation of drug crimes, interview and interrogation skills, report writing, community policing, police ethics and contemporary issues in criminal justice. (45-0)

CRJ-110 Patrol Procedures (3 s.h.)
Examining the responsibilities, techniques, and methods utilized by the uniformed police patrol officer. (45-0) *Equivalent to CRIM-105, 80-192.*

CRJ-130 Criminal Law (3 s.h.)
The philosophy and basis for law; the historical development of criminal law and procedures; the structure, definitions, and criminal laws of Iowa. (45-0) *Equivalent to CRIM-101, 80-190.*

CRJ-141 Criminal Investigation (3 s.h.)
The examination of fundamental investigative techniques, and the application of these techniques to specific investigative situations. (45-0) *Equivalent to CRIM-108, 80-292.*

CRJ-230 Evidence (3 s.h.)
The kinds and degrees of evidence and the rules governing the admissibility of evidence in court. (45-0) *Equivalent to CRIM-106, 80-290.*

DRA-119 Introduction to Theatre, TV and Film (3 s.h.)
A survey of dramatic theatre, television, and film. (45-0) *Equivalent to DRAM-101, 85-150.*

DRA-145 Oral Interpretation (3 s.h.)
Meets either Communications or Humanities requirement. Analyzing prose, poetry, and drama selections for their logical and emotional content, and learning platform techniques to present this material to an audience. (45-0) *Equivalent to 30-110, LITS-110.*

ECE-103 Introduction to Early Childhood Education (3 s.h.)
This course provides an overview of the philosophy and history of early childhood education and gives an understanding of early childhood programming in developmentally appropriate practice in addition to evaluating the essentials of early childhood education. Topics include childcare settings, the role of the child care professional, and related career fields. This course leads to CDA Certification. (45-0) *Equivalent to 20-125, EDUC-125.*

ECE-131 Home & School Relationships in Early Childhood (3 s.h.)
Home & School Relationships in Early Childhood provides techniques for developing home, school, and community relationships to encourage the learning and well-being of each child. Birth through age 8 is emphasized. This course leads to CDA Certification. (45-0) *Equivalent to EDUC-128.*

ECE-133 Child Health, Safety, and Nutrition (3 s.h.)
This course blends current theory with practical applications on health, safety, and nutrition in group child care settings. Topics include: indoor and outdoor safety principles and assessments, childhood communicable diseases, nutrition analysis, menu planning, health and hygiene practices, care of the ill or injured child, identification of child abuse, and sound mental and physical health education practices. Students must obtain certification in CPR/ First Aid by completion of the course. This course leads to CDA Certification. (45-0) *Equivalent to 20-126, EDUC-126.*

ECE-150 Curriculum for Young Children (3 s.h.)

This course provides techniques for creating meaningful curriculum for children from infancy through age eight. Developing appropriate activities in literature, math, science, social studies, art, sensory centers, music, puppetry, and dramatic play will be included. This course leads to CDA Certification. (45-0) *Equivalent to EDUC-130.*

ECE-176 Child Development (3 s.h.)

This course combines academic theory, scientific discoveries and practical applications as it presents the developmental progress of children in three domains—biosocial, cognitive and psychosocial. This course leads to CDA certification. (45-0) *Equivalent to 20-127, EDUC-127.*

ECE-243 Early Childhood Guidance (3 s.h.)

This course provides behavioral principles, guidance techniques, and methods of discipline applicable to young children. Observation techniques for behavior management with both individual children and in classroom setting will be included. This course leads to CDA Certification. (45-0) *Equivalent to EDUC-129.*

ECN-115 Personal Finance (3 s.h.)

Introduction to financial planning, using financial services and your income wisely, protecting your assets, increasing your income through savings and investments, and planning for retirement. The primary emphasis is on investments. These include, but are not limited to stocks, bonds, real estate, and financial derivatives. (45-0) *Equivalent to ECON-101, 80-135.*

ECN-120 Principles of Macroeconomics (3 s.h.)

An introductory study of how people use scarce resources to satisfy unlimited wants. After an introduction to economics, the emphasis is on the determination of national income, output, employment, and the general price level in the national economy including an examination of the money and banking system. (45-0) *Equivalent to 80-133, ECON-110.*

ECN-130 Principles of Microeconomics (3 s.h.)

Prerequisite: ECN-120, Principles of Macroeconomics. An introductory study of how people use scarce resources to satisfy unlimited wants. The emphasis is on the behavior and decision making by individual consumers, entrepreneurs, workers, and other resource owners in the product and resource markets and the resulting effects on the efficiency with which resources are used. (45-0) *Equivalent to 80-134, ECON-111.*

EDU-216 Introduction to Teaching (3 s.h.)

An introductory course in teacher education that gives students a clear view of the skills and knowledge they will need to be successful professionals. The course covers the place of the school in the community, basic philosophy including foundations and the future, the organization and administration of schools, and the nature of the curriculum. Purposeful classroom observations provide practical experience. (30-30) *Equivalent to 20-101, EDUC-101.*

EDU-235 Children's Literature (3 s.h.)

Prerequisite: ENG-102, Composition and Speech I, or ENG-105, Composition I, and ENG-103, Composition and Speech II, or ENG-106, Composition II, or comparable courses or approval of instructor.

EDU-216, Introduction to Teaching, is also a prerequisite. A study of Children's Literature by genre. An emphasis on teaching literature in the classroom will be a major component of the course. Purposeful school visitations will provide practical experience. This course meets some education program requirements. (45-0) *Equivalent to 30-210, EDUC-201.*

EDU-242 Educational Measurement and Evaluation (2 s.h.)

Prerequisite: EDU-216, Introduction to Teaching. This introductory course in educational measurement and evaluation will provide a survey of the following topics: assessment instruments, test preparation, and use of standardized measures. (30-0) *Equivalent to 20-110, EDUC-210.*

EDU-246 Including Exceptional Students (3 s.h.)

Prerequisite: EDU-216, Introduction to Teaching. An introductory discussion of issues and practices regarding the inclusion of diverse student populations in general education settings. Topics include integration, mainstreaming, and inclusion. Emphasis is placed on addressing the needs of all students, i.e. general education, special education, gifted, at risk, and multicultural. Formal and informal projects explore adaptive strategies for the curriculum, classroom, and social skill development. (45-0) *Equivalent to 20-120, EDUC-220.*

EDU-250 Educational Media and Classroom Computing (3 s.h.)

Prerequisite: None; however, prior education courses are recommended. The production and use of instructional media/computer technology and their relationship to educational strategies. (30-30) *Equivalent to 20-195, EDUC-195.*

EGT-102 Orientation to Engineering (0 s.h.)

Designed to help freshmen better understand engineering and assist them in choosing their area of specialization. Presentations by guest engineers from industry who discuss their areas of the profession. Four field trips to a selected engineering department of North Iowa industrial firms. (Class meets one hour per week.) This course has been designated as a pass/no pass course. (15-0) *Equivalent to 25-110, ENGR-100.*

EGT-119 Mechanics of Materials (3 s.h.)

Prerequisite: EGT-129, Statics for Engineering. Plane stress, plane strain, stress-strain relationships, and elements of material behavior. Application of stress and deformation analysis to members subject to centric, torsional, flexural, and combined loadings. Elementary considerations of theories of failure, buckling. (45-0) *Equivalent to 25-251, ENGR-232.*

EGT-129 Statics for Engineering (3 s.h.)

Prerequisite: MAT-210, Calculus I, with a grade of C or higher. Corequisite: MAT-216, Calculus II; and PHY-212, Classical Physics I. Scalar and vector quantities, forces, moments of forces, couples, and force systems; equilibrium, centroids and centers of gravity; analysis of structures; internal forces, shear and bending moments; friction; moments of inertia of areas. (45-0) *Equivalent to 25-231, ENGR-231.*

EGT-181 Engineering Problems/FORTRAN (3 s.h.)

Corequisite: MAT-121, College Algebra; or MAT-128, Precalculus; or MAT-210, Calculus I. Development of skills, standards, and

orderly methods of solving engineering problems. SI and English measurement and unit conversion. Estimation and calculation with approximate numbers. Significant figures. Graphing and curve-fitting of technical data. Using logarithmic and trigonometric functions. Introduction to engineering economics and statistics. Solution of engineering problems using the FORTRAN language. (30-30) *Equivalent to 25-111, ENGR-111.*

EGT-192 Engineering Graphics and Design (3 s.h.)

Prerequisite: EGT-181, Engineering Problems with FORTRAN, with a grade of C or higher. The integration of fundamental engineering graphics, computer-aided design (CAD), and engineering design. The use and manipulation of drawing instruments; freehand lettering and sketching; machine and CAD drawing of orthographic views and isometric pictorials; and basic dimensioning. Techniques for visualizing, analyzing and communicating 3-D geometries. Application through creative design projects with written and oral reports. (15-75) *Equivalent to 25-112, ENGR-112.*

ELT-115 Electronic Concepts (3 s.h.)

Electronic Concepts is an introductory survey of electricity and electronics suitable for students interested in pursuing a career in such technical fields as electronics, automotive, HVAC, and other fields that require knowledge of basic electrical/electronic concepts. Topics include safety, shop and lab practices, motors and controls, direct and alternating current, and semiconductor and digital electronics. Course work consists of problem solving, computer-assisted instruction, computer simulation, and hands-on exercises with industrial grade equipment. (30-30) *Equivalent to 96-132, INDU-701.*

ELT-124 Advanced PLCs and System Integration (3 s.h.)

Corequisite: ELT-170, Introduction to PLC's. Advanced topics in programmable logic controllers using the Allen-Bradley SLC500 and RSLogix 500 programming software including analog I/O and PID control. Application of RSLinx to establish communications and DH485 LAN networking. Controller Area Networking (CAN) using DeviceNET programming and integration using RSNetworkx. PanelVIEW programming and integration using the Allen-Bradley PanelView 500 and PanelBuilder32. Projects involving practical field devices and program development. (30-45) *Equivalent to EMST-803, 91-203.*

ELT-133 Electric Motor Drives (2 s.h.)

Prerequisite: ELT-210, Motor Control Circuits. Study of AC general purpose variable speed drives, AC vector (spindle) drives, and AC servo drives. Hands-on exercises provide experience with typical components and interconnections needed to implement various control systems. Concepts of system stability, frequency response, feedback, damping, position and speed control are covered. System troubleshooting. Multiple Entry/Multiple Exit enrollment. (15-31) *Equivalent to 96-157, EMST-815.*

ELT-170 Introduction to PLC's (3 s.h.)

Prerequisite: ELT-210, Motor Control Circuits; ELT-309, Digital Circuits. Introduction to programmable logic controllers (PLC's) using the Allen Brady SLC500 and RSLogix 500 programming software, elementary ladder logic and discrete I/O instructions, counters, timers, program development techniques, and troubleshooting. Advanced topics in programmable logic controllers including

program control instructions, math operations, sequencers, and data manipulation. This course is offered on campus as an instructor-supervised/student-paced format and is also offered online. Students enrolled in this course should expect to spend 75-90 hours (5-6 hours/week) to complete the course. If in an on-campus section, that time will be spent in the Electromechanical Systems Technology Lab. (30-45) *Equivalent to EMST-802, 91-202.*

ELT-190 Intro to Tech Computing & CAD (3 s.h.)

Prerequisite/Corequisite: Ability to key-enter the equivalent of 25 words/minute at a computer keyboard. Introduction to Technical Computing and CAD is designed to familiarize the student with microcomputer basics relating to occupations in the industrial/technical area. Topics include computer hardware, operating systems, commands and tasks, disk organization and access, word processing, spreadsheets, and two-dimensional computer-aided drafting (CAD). The student should expect to spend 5-6 hours per week in the Electromechanical Systems Technology lab to accomplish the required modular learning labs. (15-60) *Equivalent to EMST-701, 91-104.*

ELT-210 Motor Control Circuits (3 s.h.)

Prerequisite: ELT-382, Electronic Circuit Analysis. Introduction to industrial electrical motor and control circuitry. Emphasis placed on AC single- and three-phase circuit and transformer theory and industrial applications. Applications include various types of control elements. Study of the National Electrical Code as it pertains to manufacturing/industrial environment. Fundamental skills in electrical wiring and raceway techniques are learned through lab and/or project exercises. This course is offered in an instructor-supervised/student-paced format. Students enrolled in this course should expect to spend 75-90 hours(5-6 hours/week) in the Electromechanical Systems Technology Lab to complete the course. (15-69) *Equivalent to EMST-710, 91-105.*

ELT-309 Digital Circuits (3 s.h.)

Prerequisite/Corequisite: ELT-382, Electronic Circuit Analysis. Study of number systems related to digital circuits, Boolean Algebra/Karnaugh Maps. Combinational logic including AND, OR, NAND, NOR, NOT, and XOR. Combinational circuits decoders. Basic sequential elements including SR, D, JK, and Master-Slave flipflops. Sequential circuits including registers and counters. Memory circuits and applications. Analog to digital (A/D) and digital to analog (D/A) conversion, and elementary interfacing. Design, analysis, and computer simulation. This course is offered in an instructor-supervised/student-paced format. Students enrolled in this course should expect to spend 75-90 hours (5-6 hours/week) in the Electromechanical Systems Technology Lab to complete the course. (15-63) *Equivalent to EMST-712, 91-214.*

ELT-382 Electronic Circuit Analysis (3 s.h.)

Prerequisite/Corequisite: MAT-770, Applied Math, and MAT-771, Applied Math II. Study of the nature of electricity involving both direct and alternating current. DC circuit analysis utilizing more advanced techniques such as: superposition, Thevenin's and Norton's theorems. AC circuit analysis involving RL, RC, and RLC circuits, inductive and capacitive reactances, resonance, and transformer fundamentals. Computer circuit simulation of both DC and AC circuits is stressed along with an application of electronic test equipment; oscilloscopes, meters, and power supplies.

This course is offered in an instructor-supervised/student-paced format. Students enrolled in this course should expect to spend 75-90 hours (5-6 hours/week) in the Electromechanical Systems Technology Lab to complete the course. (15-60) *Equivalent to EMST-702, 91-175.*

ELT-550 Analog Devices (4 s.h.)

Prerequisite: ELT-382, Electronic Circuit Analysis. Study of diodes, bipolar transistors and field effect transistors (JFETs and MOSFETs) as they are used in both AC and DC electronic circuits. Applications such as power supplies, switching circuits and amplifier circuits are covered. Advanced topics in electronic devices including operational amplifiers (op amps), active filters, thyristors, and voltage regulation are covered. Practical circuit analysis of the devices under study is covered. Computer simulation of the devices under study is covered. Both circuit analysis and measurement techniques using meters and oscilloscopes are stressed. This course is offered in an instructor-supervised/student-paced format. Students enrolled in this course should expect to spend 100-120 hours (7-8 hours/week) in the Electromechanical Systems Technology Lab to complete the course. (15-91) *Equivalent to EMST-711, 91-179.*

ELT-710 Computer Automated Manufacturing (3 s.h.)

Prerequisite/Corequisite: ELT-790, Fluid Power and ELT-124, Advanced PLCs and System Integration. Capstone projects in Electromechanical Systems Technology: project identification, planning, and implementation, as well as, group dynamics, project structure, and troubleshooting techniques. Projects may include, but are not limited to automation, control, manufacturing, or educational hardware for program use. The integration of robots, instrumentation, computers, and programmable logic controllers, human/machine interface, communications, and other industrial systems. (15-65) *Equivalent to EMST-816, 91-206.*

ELT-734 Industrial Instrumentation (4 s.h.)

Prerequisite/Corequisite: ELT-170, Introduction to PLC's; ELT-309, Digital Circuits. The student studies modern instrumentation techniques as they apply to the manufacturing environment and uses industrial sensors, transducers, and related components. Instrumentation labs use a variety of control techniques and may include RSLogix500, DeviceNet, and Panel Builder. The labs are self-paced but students should expect to spend 5-6 hours/week in the lab. Lectures are scheduled at a specific time every week. (15-90) *Equivalent to EMST-817, 91-207.*

ELT-745 Maintenance Shop Operations (3 s.h.)

The student is introduced to shop equipment generally found in the industrial maintenance environment. The student uses safe setup and produces parts with metal saws, drills, grinders, basic welding and cutting, thread repair, anchors and fasteners. The student use of mechanical prints to identify parts in assembly and repair situations is practiced, along with the use of catalogs to find and order repair parts, study of bearings and seals, applications, and failure analysis. (15-61) *Equivalent to 96-156, EMST-805.*

ELT-750 Facilities Maintenance (3 s.h.)

Prerequisite: ELT-210, Motor Control Circuits. The student studies topics specific to maintenance of facilities. Topics include project estimating issues including installation, cost, and time. The student reads building schematics and blueprints, studies the fundamentals

of HVAC with lab exercises, and researches construction issues including sprinkler, electrical, and plumbing systems. Field trips provide a general compare and contrast of industry facility maintenance systems. (45-0) *Equivalent to 96-155, EMST-820.*

ELT-790 Fluid Power (3 s.h.)

Prerequisite/Corequisite: MAT-770, Applied Math, and MAT-771, Applied Math II. Students gain knowledge and hands-on experience with hydraulic and pneumatic components and circuits; the transmission of force through fluids; conversion of force to pressure; the control of power and systematic methods of troubleshooting and testing hydraulic and pneumatic systems. This is an instructor-supervised/student-paced format. The student should expect to spend 5-6 hours per week in the Electromechanical Systems Technology Lab to complete the course. (15-65) *Equivalent to EMST-703, 92-118.*

ELT-895 Electromechanical Internship (2 s.h.)

Prerequisite: sophomore status in the Electromechanical Systems Technology Program and permission of internship coordinator. Supervised work experience in a business or industry, which normally is four weeks in duration. Work must be related to the major field of study; i.e., electricity/electronics, industrial maintenance, installation or service of control systems, etc. (0-160) Instructor's consent required. *Equivalent to EMST-801, 91-110.*

EMS-110 EMS First Responder (2 s.h.)

Prerequisite: At least 17 years of age at the time of enrollment. Proficient in writing, reading, and speaking English. Hold or eligible to obtain a driver's license. Physically and emotionally capable of performing basic emergency care skills. Current certification at the Basic Cardiac Life Support Health Care Provider Module with the American Heart Association or permission obtained by the instructor. A 45-hour emergency care course which emphasizes life-threatening emergencies, wounds, fractures, medical and environmental emergencies, and other emergency situations as outlined by the U.S. DOT. (20-26) *Equivalent to EMSS-100, 89-170.*

EMS-220 EMT Basic I (4 s.h.)

Prerequisite/Corequisite: Be at least 17 years of age at the time of enrollment. Be proficient in writing, reading, and speaking English. Hold or be eligible to obtain a current driver's license. Be physically and emotionally capable of performing basic emergency care skills. Current certification at the Basic Cardiac Life Support Health Care Providers Course with the American Heart Association. Physical examination required prior to beginning hospital clinicals with immunizations and hepatitis B vaccine or waiver. This class provides the student with the necessary knowledge and skill to perform basic emergency care and transport. It includes an introduction/preparation module, airway management module, patient assessment module, medical/behavioral emergencies module, and obstetrical/gynecological emergencies module. Six hours of clinical in the hospital is also included. (47-24-6) *Equivalent to 89-195, EMSS-101.*

EMS-224 EMT Basic II (2 s.h.)

Prerequisite/Corequisite: Be at least 17 years of age at the time of enrollment. Be proficient in writing, reading, and speaking English. Hold or be eligible to obtain a current driver's license. Be physically and emotionally capable of performing basic emergency care skills.

Current certification at the Basic Cardiac Life Support Health Care Providers Course with the American Heart Association. Physical examination required prior to beginning hospital clinicals with immunizations and hepatitis B vaccine or waiver. Must have completed EMT Basic I (EMS-220). This class is a continuation of EMT Basic I. It includes a trauma module, infants and children module, and operations module. Twelve hours of clinical in the hospital is also included. (20-14-12) *Equivalent to 89-196, EMSS-102.*

EMS-311 EMT Intermediate 85 (4 s.h.)

Prerequisite: EMT-B State of Iowa Certification. This class provides the student with advanced skills to provide emergency care and transport. It includes roles and responsibilities, legal aspects, EMS system and communications, patient assessment, advanced airway management, shock management, including intravenous therapy and defibrillation. It also includes 45 hours of clinical/field experience. (30-30-45) *Equivalent to 89-175, EMSS-110.*

EMS-411 EMT-P: Part I (6 s.h.)

Prerequisite: EMS-220, EMT Basic I, EMS-224, EMT Basic II, State of Iowa Certification. This course provides the student with advanced prehospital training. It includes roles and responsibilities, overview of human systems, emergency pharmacology, airway management, patient assessment, and trauma management (including PHTLS). (60-60) *Equivalent to EMSS-120, 89-171.*

EMS-412 EMT-P: Part II (7 s.h.)

Prerequisite: EMS-411, EMT-P: Part I. This course is a continuation of EMS-411, EMT-P: Part I. It includes respiratory, cardiac, diabetic, neurological, toxicological, abdominal, gynecological, behavioral, pediatric, geriatric and obstetrical emergencies. (71-69) *Equivalent to EMSS-121, 89-172.*

EMS-413 EMT-P: Part III (3 s.h.)

Prerequisite: EMS-411, EMT-P: Part I, and EMS-412, EMT-P: Part II. This course includes 68 hours of hospital clinical experience and 67 hours of field experience. (0-0-90-45) *Equivalent to EMSS-122, 89-173.*

EMS-414 EMT-P: PART IV (3 s.h.)

Prerequisite: EMS-411, EMT-P: Part I; EMS-412, EMT-P: Part II; EMS-413, EMT-P: Part III. This course includes 67 hours of hospital clinical experience and 68 hours of field experience. (0-0-45-90) *Equivalent to EMSS-123, 89-174.*

ENG-015 Elements of Writing (4 s.h.)

A developmental writing course designed for students referred by orientation assessment or by instructors. Emphasis is on writing; students will learn strategies for recognizing and compensating for individual writing problems. Students complete the course by meeting the minimum entrance requirements for Composition & Speech I. Credit earned will not satisfy the requirements for an Associate Degree and will not be used in calculating the cumulative grade point average for graduation. This course has been designated as a pass/no pass course. (60-0) *Equivalent to ENGL-094, 30-090.*

ENG-046 Communications/Reading & Writing Enrich (4 s.h.)

Prerequisite: Consent of instructor. This Enrich course will focus on strategies that enable adult students to understand and apply reading skills to printed material, and to express ideas clearly and

correctly in writing. Applications will be in daily life, at work, and in leisure activities. This course has been designated as a pass/no pass course. (60-0) *Equivalent to 30-048, ENRI-045.*

ENG-047 Communications/Reading & Writing Enrich II (4 s.h.)

Prerequisite: Consent of instructor. This Enrich course will focus on strategies that enable adult students to understand and apply reading skills to printed material and to express ideas clearly and correctly in writing. Applications will be in daily life, at work, and in leisure activities. Emphasis will be on decoding, vocabulary building, and writing. This course is designed to follow Communication Through Reading and Writing Enrichment, ENG-046 but may be taken without that prerequisite. This course has been designated as a pass/no pass course. (60-0) *Equivalent to 30-049, ENRI-046.*

ENG-102 Composition and Speech I (4 s.h.)

Improvement of skills in reading, writing, speaking, and listening, with an emphasis on expository methods of development and personal experience as supporting material. Students will use word processors and the Writer's Workbench analyses programs, the Writer's Workbench STEPS programs, and the structuring sentences video series. Students must meet minimum competency requirements in writing and speaking to receive a grade of C or higher. (60-0) *Equivalent to ENGL-101, ENGL-104, 30-101, ENG-105.*

ENG-103 Composition and Speech II (4 s.h.)

Prerequisite: ENG-102, Composition & Speech I. Students must have earned a C or higher grade in Composition & Speech I before enrolling in Composition & Speech II. A continuation of ENG-102, Composition & Speech I, with an emphasis on argumentative and persuasive writing and speaking, on research methods, and on language. Students will use word processors, Writer's Workbench analyses, Writer's Workbench STEPS, and sentence structuring videos. Students must meet minimum competency requirements in writing and speaking to receive a grade of C or higher. (60-0) *Equivalent to ENGL-102, 30-102, ENG-106, ENGL-105.*

ENG-105 Composition I (3 s.h.)

Improvement of skills in reading, writing, and listening with an emphasis on expository methods of development and personal experience as supporting material. Students may be requested to use word processors and the Writer's Workbench analyses programs, the Writer's Workbench STEPS programs, and the structuring sentences video series. Students must meet minimum competency requirements in writing to receive a grade of C or higher. (45-0) *Equivalent to ENGL-104, ENGL-101, 30-101, ENG-102.*

ENG-106 Composition II (3 s.h.)

Prerequisite: ENG-105, Composition I, or ENG-102, Composition and Speech I. Students must have earned a C or higher grade in Composition I or Composition and Speech I before enrolling in Composition II. A continuation of ENG-105 Composition I, with an emphasis on argumentative and persuasive writing, on research methods, and on language. Students may be requested to use word processors, Writer's Workbench analyses, Writer's Workbench STEPS, and sentence structuring videos. Students must meet minimum competency requirements in writing to receive a grade of C or higher. (45-0) *Equivalent to ENGL-102, ENGL-105, 30-102, ENG-103.*

ENG-221 Creative Writing (3 s.h.)
Prerequisite: ENG-102, Composition and Speech I, or ENG-105, Composition I, or comparable course or approval of instructor. A practical workshop in writing and rewriting manuscripts in preparation for submitting for publication. Emphasis on nonfiction articles and short stories but also covers poetry, plays, and screenplays. (45-0) *Equivalent to 30-205, ENGL-205.*

ENG-701 Communications I (3 s.h.)
Study designed to assist students in improving and/or refining skills in the areas of reading, writing, listening, and speaking to help meet communication needs in college and for success and advancement in a career. (45-0) *Equivalent to 95-130, ENGL-701.*

ENG-702 Communications II (3 s.h.)
Prerequisite: ENG-701, Communications I or equivalent. Further study designed to assist students in improving and/or refining skills in the areas of reading, writing, listening, and speaking to help meet communication needs in college and for success and advancement in a career. (45-0) *Equivalent to 95-131, ENGL-702.*

ENV-110 Environmental Science (3 s.h.)
The study of ecological principles and the interrelationships among populations, resources, and pollution in developing a sustainable society. Topics include: population, ecology, soil, water, land, air, and energy resources, plus air, water, soil, and waste management. Environmental decision-making strategies to resolve current and future environmental issues are stressed. (30-30) *Equivalent to ENVR-101, 70-104.*

FIN-101 Principles of Banking (3 s.h.)
Fundamental bank functions presented in a descriptive fashion so that the beginning banker may view the chosen profession in broad (and operational) perspective. (45-0) *Equivalent to 15-170, BUSN-140.*

FIN-210 Analysis and Valuation of Stocks (1 s.h.)
The Analysis and Valuation of Stocks is a comprehensive course designed to provide you with conventional and advanced techniques in researching and valuing stocks. Starting off with the basics, you will learn how to read financial statements and calculate financial ratios, and then move on to perform industrial comparisons, value stocks, and conduct economic and industrial research. This course is taught in a manner that uses everyday language, simple, yet insightful analogies, and a just-the-facts attitude that you will understand and appreciate. By the end of this course, you will have a strong foundation in the analysis and valuation of stocks. (5-20) *Equivalent to 15-272, BUSN-250.*

FIN-214 Stocks, Bonds, and Investing: Oh My! (1 s.h.)
Stocks, Bonds, and Investing: Oh My! emphasizes preemptive planning for a financial account by comprehending financial markets through identifying how financial markets operate. This course has been designated as a pass/no pass course. (5-20) *Equivalent to 15-247, BUSN-255.*

FIR-155 Fire Protection Technology (4 s.h.)
This course will familiarize the student with the different types of building construction as they relate to fire protection. Also covered

will be: private fire protection systems, municipal water systems, state and local codes. (65-15) *Equivalent to 70-115, FIRE-102.*

FIR-184 Hazardous Material Technician (3 s.h.)
This course will be oriented toward preparing emergency response team members to perform advanced control, containment, and/or confinement operations; understand hazard and risk assessment techniques; know how to identify materials using field response plan; understand the various roles within the incident command system; properly identify, select, and use specialized chemical protective clothing; and perform decontamination activities on personnel equipment. (30-30) *Equivalent to 70-116, FIRE-103.*

FIR-210 Incident Command System (1 s.h.)
This course is designed to meet the needs of fire officers and managers with responsibilities to use, deploy, implement, and/or function within an incident command system. This program addresses the need for incident management systems, an overview of the structure and expandable nature of ICS, and understanding of the command skills needed by department officers to effectively use ICS guidelines, and scenario practice. (15-0) *Equivalent to 70-117, FIRE-104.*

FIR-231 Fire Behavior/Investigation (4 s.h.)
This course is designed to assist in training firefighters and fire officers to properly determine the origin and cause of fire. (45-35) *Equivalent to 70-113, FIRE-101.*

FIR-281 Fire Instructor I (2 s.h.)
This course develops the participants' attitudes, knowledge, skills, and abilities to effectively implement and manage tactical operations. Develop a basic understanding of fire fighting strategies and tactics. (24-24) *Equivalent to 70-119, FIRE-105.*

FLS-141 Elementary Spanish I (4 s.h.)
Designed for students with little or no previous study of Spanish. Focus is on acquainting the student with fundamentals, including pronunciation, basic grammar needed to express activities in the present and near future. Basic vocabulary will be learned to enhance speaking, listening, writing, and reading skills. Increase global awareness by video shorts and short readings. (45-30) *Equivalent to 35-110, SPAN-101.*

FLS-142 Elementary Spanish II (4 s.h.)
Prerequisite: FLS-141, Elementary Spanish I or minimum of one year of high school Spanish. Designed as a continuation of Elementary Spanish I. Focus is on reinforcing students' knowledge in fundamentals, including pronunciation, basic grammar needed to express activities in the present and near future. Basic vocabulary will be learned to enhance speaking, listening, writing, and reading skills. New grammar includes being able to communicate in the past tenses, and giving commands for common verbs. Students are expected to use as much Spanish as possible with classmates and the instructor. (45-30) *Equivalent to 35-111, SPAN-102.*

FLS-241 Intermediate Spanish I (4 s.h.)
Prerequisite: FLS-142, Elementary Spanish II or minimum of two years of high school Spanish. Designed as a comprehensive grammar review, composition, and speaking course. Builds on

aural-oral skills, increased vocabulary, and reading short pedagogical (using vocabulary and grammar students are familiar with) stories and authentic language literature. (45-30) *Equivalent to 35-211, SPAN-201.*

FLS-242 Intermediate Spanish II (4 s.h.)

Prerequisite: FLS-241, Intermediate Spanish I or minimum of three years of high school Spanish with instructor approval. Designed as a comprehensive grammar review, composition, and speaking course. Builds on aural-oral skills, increased vocabulary, and reading short pedagogical stories and authentic language literature. (45-30) *Equivalent to 35-212, SPAN-202.*

FLS-261 Advanced Spanish I (3 s.h.)

Prerequisite: FLS-242, Intermediate Spanish II; or four years of high school Spanish with instructor approval. Students will become more comfortable speaking by Q & A, impromptu speaking. Reading skills will be enhanced by reading original short stories and cultural and historical selections from the text. Use of visual aids, video shorts, speaking, and reading will increase vocabulary competency. Grammar study and activities will increase language accuracy and expression. Use of exams will be limited; students will be graded on in-class discussion and homework completion. Students will at times use the Internet to find and interpret articles from Hispanic newspapers. A final oral (optional) and written evaluation will determine the student's progress in the above-mentioned areas. (30-30) *Equivalent to 35-260, SPAN-260.*

FLS-262 Advanced Spanish II (3 s.h.)

Prerequisite: FLS-261, Advanced Spanish I, or four satisfactory years of high school Spanish with instructor approval. Students are expected to maximize their use of Spanish in the classroom. Guided dialogs as well as extemporaneous speaking will increase fluency. Original texts from various Hispanic countries will be used to gain cultural understanding, vocabulary, and provide topics for classroom discussion. By end of semester, students should be able to express themselves in speech and writing using all verb tenses. Short creative writings will be done. Articles from Hispanic countries will be used to expose students to a wide range of events and cultural differences. The use of contemporary music and videos will enhance student listening comprehension. Limited use of tests will be used along with in-class participation and out-of-class work to evaluate student progress. This semester's reading will include one drama, "En la ardiente oscuridad." Mexican movies, such as "el Mariachi" and "El Profe (Cantinflas)", will be viewed for which students will write a summary. Projects may include transcription of a song or video segment, or researching a topic of a current event in a Hispanic country. Every student should demonstrate improvement in all four skills --reading, writing, listening, and speaking. (30-30) *Equivalent to 35-261, SPAN-261.*

GEO-124 Regional Geography of the Nonwestern World (3 s.h.)

A regional study of the physical and cultural spatial patterns of Middle America, South America, North Africa/Southwest Asia, South Asia, East Asia, Southeast Asia and the Pacific World. (45-0) *Equivalent to GEOG-103, 80-152.*

GEO-125 Regional Geography of the Developed World (3 s.h.)

A regional study of the physical and cultural spatial patterns of Europe, Australia, Russia, and Anglo-American. (45-0) *Equivalent to GEOG-102, 80-151.*

GEO-131 Physical Geography (3 s.h.)

An introductory systems course in geography that acquaints the student with spatial relationships that exist in the physical environment. Topics include: geographic tools, weather and climate, land forms, soils, water resources, plants, and animals. Lab experience included. (45-0) *Equivalent to GEOG-101, 80-150.*

GRA-108 Visual Communication (3 s.h.)

Prerequisite: CIS-210, Web Development I, or BCA-185, Beginning Web Page Development, or permission of the instructor. Visual Communication is an introduction to visual problem solving and communication through print and the World Wide Web. This course will cover basic technical terminology, an overview of software and equipment for graphic design and an introduction into digital imagery. The goal is to expand student competency in basic visual and technical skills, developing and understanding of how perception relates to communication and expose students to current issues related to design. (45-0) *Equivalent to 15-201, ECOM-115.*

GRA-117 Principles of Illustration (3 s.h.)

Prerequisite: ART-120, Two-Dimensional Design, ART-133, Drawing, and ART-143, Painting I. This course will emphasize the research and conceptual development skills needed to complete successful illustrations for publications in print or on the web. It will explore the various techniques used by contemporary illustrators, including traditional methods such as drawing and painting as well as digital processes. This course will require students to have good drawing skills and basic skills in painting. Skills in digital illustration programs such as Adobe Illustrator and Photoshop will be developed. (45-0)

GRA-151 Web Design (3 s.h.)

Prerequisite: GRA-108, Visual Communication or permission of the instructor. This course is an expansion of graphic design concepts merging traditional page design, typography, and digital imagery into the concepts and practices of web design. This studio course will cover the preparation of digital images, compositional dynamics, and sequencing of images into a complete working web design. Students will work with current graphic and digital imaging software and web authoring software. (45-0) *Equivalent to 15-202, ECOM-201.*

GRA-166 Web Animation (3 s.h.)

Prerequisite: GRA-108, Visual Communication, or permission of instructor. Animation can be an important part of information transfer from a Web site to the viewer. Topics will include when animation is an appropriate tool to use, when animation should be avoided, what tools are the current standard for Web animation, and how animation can be used to present information. The class will be project-based, with the student solving animation-related problems based on real business situations. Students will be expected to animate their solutions using current software. Animations will be judged on their completeness, correctness, and professionalism. (45-0) *Equivalent to 15-206, ECOM-205.*

GRA-173 Typography (3 s.h.)

Prerequisite: ART-115, Graphic Design, or permission of instructor. Because type takes the place of the spoken word in many forms of visual communication, it is critical that it be understood. This course introduces the student to the history and principles of good typographic design and how these principles can be used effectively in all forms of communication that depend on the printed word, including web design, publication design and advertising design. (45-0)

GRA-194 Design Studio Applications (3 s.h.)

Prerequisite: ART-116, Graphic Design II, GRA-117, Principles of Illustration, and ART-131, Digital Publication Design, or permission of instructor. Building upon the knowledge gained throughout the Graphics Communications program, this capstone course takes students into the field to address real graphical problems for non-profits in the community. Students will meet with representatives of the organization to determine need, address the need in a professional manner that solves the client problem, and complete the process through printed or electronic media. (45-0)

GRA-299 Electronic Portfolio (3 s.h.)

Prerequisite: CIS-210, Web Development I, or BCA-185, Beginning Web Page Development, or permission of instructor. Electronic Portfolio will help prepare the student for the next step, whether that is moving into the work force or presenting to the teachers at a four-year institution. Skills taught in this class will include final touches to the electronic portfolio, career-advancement skills, resume writing, and interviewing. Student will be expected to present themselves as professionals in various ways, including speaking to members of the business community and various members of the NIACC staff. The course culminates in a formal presentation of the electronic portfolio to staff and business people. (30-30) *Equivalent to 15-220, ISTS-250.*

HCM-103 ServSafe Food Safety (1 s.h.)

ServSafe is nationally recognized and accepted by more federal, state, and local jurisdictions than any other food safety training program. The course includes latest science-based information and industry best practices. It incorporates new manager job task analysis--tasks that industry, academic and regulatory experts deem essential to the role of food service professionals who are responsible for ensuring an operation is serving safe food. It equips future managers with food safety knowledge they can share with their employees. (15-0) *Equivalent to FOOD-703, 90-248.*

HCM-135 Food Production (4 s.h.)

Professional cooking is a course designed to provide a foundation for students in developing their cooking competence. This course will show students what they need to know and how to cook in order to manage restaurant and food service operations. Units covered include cooking meats and game, poultry, fish, seafood, vegetables, and salads. (45-30)

HCM-205 Dinner and Front of the House (3 s.h.)

Prerequisite: HCM-144, Food Prep I. This is a capstone, project-driven course where all of the students will complete the entire planning process and execution of a formal dinner event. *Equivalent to FOOD-802, 90:257.* (15-60)

HCM-232 Culinary Nutrition (2 s.h.)

Provides up-to-date information on nutrition and diet. This course covers topics about biotechnology, vitamins, minerals, and organic foods. The course presents a broad range of facts on the nutritional value of foods, as well as coverage on the nutritional value of foods from other parts of the world. (30-0) *Equivalent to FOOD-704, 90-249.*

HCM-236 Culinary Arts and Book of Yields (2 s.h.)

This course will provide students with an introduction to chefs' technical references to inventory and portion control. (30-0)

HCM-239 Customer Service (2 s.h.)

The course will introduce students to all aspects of customer service in the hospitality industry. In addition, the course will assist each student in developing a proper customer service attitude, while taking them through activities to meet the high standards of customer service. (30-0)

HCM-283 Controlling Food Service Costs (2 s.h.)

Provide students with a wide-ranging knowledge and specific solutions they need to keep costs low and margins high. Provide instruction in food and beverage sanitation, production, and service methods. (30-0)

HCM-325 Human Resources Management & Supervision (2 s.h.)

This course provides skills-based information in a clear and logical way, covering all of the essential topics and responses to the changing needs of the hospitality supervision industry today. (30-0) *Equivalent to 90-246, FOOD-701.*

HCM-607 Hospitality & Restaurant Management (2 s.h.)

Hospitality marketing is the performance of business activities that direct the flow of goods and services from product to consumer. The marketing role in a hotel or restaurant is concerned about understanding customer needs, creating a product-service mix that satisfies these needs. (30-0) *Equivalent to 90-251, FOOD-706.*

HCR-115 Residential Heating Systems (4 s.h.)

Corequisite: ELT-115, Electronic Concepts, or instructor's permission. The purpose of this course is to introduce the student to the various types of residential heating systems. Areas and concepts covered include combustion theory, basic air distribution, furnace construction, filters, humidifiers, installation techniques, and maintenance procedures. (30-105) *Equivalent to 96-128, HVAC-701.*

HCR-150 Commercial Heating Systems (5 s.h.)

Prerequisite: HCR-115, Residential Heating Systems, or instructor's permission. This course covers large heating systems used in commercial, institutional, and industrial applications. Types of equipment include hot water and low-pressure steam boilers and rooftop heating units. (30-135) *Equivalent to 96-230, HVAC-803.*

HCR-155 Troubleshooting Heating Systems (3 s.h.)

Prerequisite: ELT-115, Electronic Concepts, or instructor's permission. The purpose of this course is to introduce the student to the fundamentals of troubleshooting by utilizing a practical and systematic approach to locate and repair heating system malfunctions. The student will also have the opportunity to study, in detail, the motors and controls used in today's heating systems. Topics to be covered include basic electric circuits, electrical test meters, motors

and controls, diagnosis of electrical and mechanical malfunctions, and special emphasis on writing diagrams. (15-90) *Equivalent to 96-129, HVAC-702.*

HCR-205 Air-Conditioning Principles (2 s.h.)

A study of the theory of air-conditioning. Includes psychometrics, heat gain/loss problems, and equipment sizing. (15-45) *Equivalent to 96-134, HVAC-710.*

HCR-210 Residential Air-Conditioning Systems (4 s.h.)

Prerequisite: ELT-115, Electronic Concepts, or instructor's permission. The purpose of this course is to introduce the student to the various types of residential air-conditioning and heat pump systems. Areas and concepts covered include refrigeration, air-conditioning, heat pump theory, heat pump construction, installation techniques, and maintenance procedures. (30-105) *Equivalent to 96-138, HVAC-711.*

HCR-235 Commercial Air-Conditioning Systems (5 s.h.)

Prerequisite: HCR-210, Residential Air-Conditioning Systems, or instructor's permission. This course covers large cooling systems used in commercial, institutional, and industrial applications. Types of equipment include water chillers, multistage reciprocating units, and an introduction to absorption systems. (30-135) *Equivalent to 96-234, HVAC-812.*

HCR-240 Troubleshooting Air Conditioning Systems (3 s.h.)

Prerequisite: ELT-115, Electronic Concepts, or instructor's permission. The purpose of this course is to introduce the student to the fundamentals of troubleshooting by utilizing a practical and systematic approach to locate and repair air-conditioning and heat pump system malfunctions. The student will also have the opportunity to study, in detail, the motors and controls used in today's air-conditioning and heat pump systems. Topics to be covered include basic electric circuits, electrical test meters, motors and controls, diagnosis of electrical and mechanical malfunctions, and special emphasis on wiring diagrams. (15-90) *Equivalent to 96-139, HVAC-712.*

HCR-505 Air Distribution (3 s.h.)

Prerequisite: HCR-205, Air-Conditioning Principles, or instructor's permission. A study of the construction and design of duct work and related duct fittings. Includes correct layout and sizing of ducts, return and supply grills, and use of airflow measuring instruments. (30-60) *Equivalent to 96-232, HVAC-811.*

HCR-510 Sheet Metal Fabrication (2 s.h.)

Corequisite: HCR-705, Technical Graphics, and HCR-150, Commercial Heating Systems. The student performs basic sheet metal fabrication, gas piping, plastic piping, copper piping and venting pertaining to climate control devices. Working safely and neatly performing field tasks in a laboratory atmosphere enhances the student "job readiness." (15-45) *Equivalent to 96-140, HVAC-802.*

HCR-705 Technical Graphics (2 s.h.)

Corequisite: HCR-510, Sheet Metal Fabrication, and HCR-150, Commercial Heating Systems. A development of blueprint skills students will need to interpret and sketch various drawings including, construction, mechanical, pneumatic, electrical, plumbing, and duct patterns. He/she will use simple sketching aids and appropri-

ate templates to aid them in their development of drawings. The end result of these efforts will be the understanding of graphic drawings as a means of communicating information in their field of work. (30-0) *Equivalent to HVAC-801, 91-124.*

HCR-808 Advanced Control Systems (4 s.h.)

Prerequisite: HCR-155, Troubleshooting Heating Systems; and HCR-240, Troubleshooting Air-Conditioning Systems, or instructor's permission. Major emphasis is on four basic types of control systems: pneumatic, electronic, electro mechanical, and digital as applied to large heating and air-conditioning applications. (30-120) *Equivalent to 96-231, HVAC-810.*

HCR-810 Energy Management (3 s.h.)

Prerequisite/Corequisite: HCR-808, Advanced Control Systems, or instructor's permission. This course is designed to examine the consumption of energy in commercial and industrial buildings and how energy usage may be reduced. (30-60) *Equivalent to 96-235, HVAC-815.*

HIS-112 Western Civilization: Ancient-Early Modern (4 s.h.)

A study of the major social, political, economic, cultural, and philosophical movements in the Western World from the beginning of civilization to 1648. (60-0) *Equivalent to HIST-201, 80-201.*

HIS-113 Western Civilization: Early Modern to Present (4 s.h.)

A study of the major social, political, economic, and philosophical movements in the Western World from 1648 to the present. (60-0) *Equivalent to HIST-202, 80-202.*

HIS-151 U.S. History to 1877 (3 s.h.)

A survey course covering the social, political, and economic history of American civilization from the Age of Discovery through Reconstruction. (45-0) *Equivalent to HIST-101, 80-140.*

HIS-152 U.S. History Since 1877 (3 s.h.)

A survey course covering the social, political, and economic history of the United States since 1877. (45-0) *Equivalent to HIST-102, 80-141.*

HIS-254 American Indian History (3 s.h.)

American Indian History is an ethnographic and historical survey of the social, cultural, and political systems developed by Native Americans north of Mexico, and the developing relationship of these systems with those of the European-Americans. Native religion and world view, agricultural and hunting practices, material culture, trade, diplomacy and political structures are examined, as are the mutual impact on both societies resulting from contact with and interaction between native North Americans and Europeans and their descendants. (45-0) *Equivalent to HIST-110, 80-144.*

HIS-257 African American History (3 s.h.)

The course chronicles the experience of African Americans in the history of the United States. Topics include African heritage, the slave trade, slavery in the Antebellum South, the Civil War and emancipation, the Jim Crow era, the birth of racial advancement organizations, the development of twentieth-century urbanization

and nationalism, and the struggle for civil rights, political power and cultural expression from mid century to the present. (45-0) *Equivalent to HIST-111.*

HIT-210 Basic Medical Insurance and Coding (2 s.h.)

Prerequisites: HSC-120, Medical Terminology I and HSC-150, Body Structure and Function OR equivalent work experience OR permission from instructor. This course will provide the students with an overview of medical health insurance claims submission guidelines and basic coding procedures. In addition, the student will work through a number of relevant case studies. (30-0) *Equivalent to 15-250, OFFC-851.*

HIT-246 Coding 1 (ICD-9) (3 s.h.)

Corerequisite: HSC-120, Medical Terminology I, and HSC-150, Body Structure and Function. Prerequisite: None. However, HIT-210, Basic Medical Insurance and Coding, or experience in medical coding is highly desirable. A study of the International Classification of Disease (ICD-9-CM) codes, using sample exercises and health records to develop skill and accuracy in coding guidelines required at health care settings. (45-0)

HIT-630 Medical Transcription I (3 s.h.)

This course is designed to simulate medical transcription practices used in a healthcare environment. The main objective is to provide the student with knowledge of the content and formats of medical documents and reports typically dictated in physicians' offices, hospital clinics, and hospital ancillary and support facilities. (15-60) *Equivalent to 15-249, OFFC-852.*

HIT-631 Medical Transcription II (3 s.h.)

Prerequisite: HIT-630, Medical Transcription I. This course is designed to introduce students to hospital dictation. The students will progress through various levels of dictation including some advanced documents. (15-60) *Equivalent to 15-256, OFFC-853.*

HIT-632 Medical Transcription III (3 s.h.)

Prerequisites: HIT-630, Medical Transcription I. This course is designed to introduce students to live medical dictation from the clinical and radiology settings. The students will also be applying the issues of confidentiality and using medical reference books. (15-60) *Equivalent to 15-265, OFFC-854.*

HSC-108 Introduction to Health Professions (2 s.h.)

This course provides a brief historical view of health care in addition to an overview of today's health care delivery system and related health care issues. Ethical/legal issues and desirable professional skills and behaviors associated with health care workers are also addressed in this course. Direct observation and research of specific health careers in health care agencies is also a requirement. Specific immunizations and health history information may be required for the observational experience and should be discussed with your counselor prior to the course. This course has been designated as a pass/no pass course. (30-0) *Equivalent to HEAL-100, 89-159.*

HSC-120 Medical Terminology I (3 s.h.)

Introduction of basic medical terminology utilizing a programmed, word-building system to learn word parts to construct and analyze

new terms. Emphasis is placed on spelling, definition, usage, and pronunciation. (45-0) *Equivalent to 15-251, HEAL-110.*

HSC-121 Medical Terminology II (3 s.h.)

Prerequisite: None. However, HSC-120, Medical Terminology I is highly desirable. A continuation of HSC-120. A brief review of basic medical terminology followed by a systems approach to learning terms associated with the anatomical, physiological, and pathological aspects of the body. (45-0) *Equivalent to 15-252, HEAL-111.*

HSC-144 Basic Pharmacology (2 s.h.)

Provides a basic foundation of the study of drugs including general concepts, biological factors affecting the action of drugs, and effects of medications on body systems. Includes allergy overview, the medication order, and discussion of legal and ethical issues related to pharmacology. (30-0) *Equivalent to 90-134, HEAL-701.*

HSC-150 Body Structure and Function (4 s.h.)

A basic study of the anatomy and physiology of the human body. Study progresses from the cell to tissues, organs, and systems with emphasis on their interrelatedness. Discussion includes some of the alterations that occur in illness. Usage of applicable medical terminology is stressed. (45-30) *Equivalent to 94-104, HEAL-704, HSC-150L.*

HSC-155 Laboratory Tests (2 s.h.)

To familiarize the student with clinical laboratory tests and their normal ranges in the areas of hematology, urology, and microbiology. The student will also learn basic surgical position terminology, instruments, and special organ studies. (30-0) *Equivalent to 90-140, HEAL-702.*

HSC-171 Nurse Aide Theory (2 s.h.)

Corequisite: HSC-174, Nurse Aide Clinical. This 75-hour nurse aide course has been designed to meet the training requirements of The Omnibus Budget Reconciliation Act of 1987 (OBRA) for aides working in nursing facilities (NF) and skilled nursing facilities (SNF). Emphasis in the course is on students achieving a basic level of knowledge and demonstrating skills to provide safe, effective resident care. The course has been developed in six units of study. The theory portion includes 30 hours of classroom time and 15 hours of laboratory practice. (30-0) *Equivalent to CNAS-101, 89-164.*

HSC-174 Nurse Aide Clinical (1 s.h.)

Corequisite: HSC-171, Nurse Aide Theory. The clinical experience includes 30 hours in a nursing facility. (0-45) *Equivalent to CNAS-102, 89-165.*

HSV-152 Introduction to Counseling (3 s.h.)

Prerequisite: PSY-121, Developmental Psychology, SOC-110, Introduction to Sociology, and SOC-150, Introduction to Human Services. A survey of the basic theories and techniques of psychological counseling. This is a required course leading to the A.A. degree with a certificate in Human Services. (45-0)

HSV-153 Professional Ethics (3 s.h.)

Prerequisite: PSY-121, Developmental Psychology, SOC-110, Introduction to Sociology, and SOC-150, Introduction to Human Services. An in-depth study of ethical perspectives or a selected

area of moral concern. Possible topics include bioethics; business and professional ethics; queer ethics; science, technology, and society; sexual ethics; and comparative religious ethics. This is a required course leading to the A.A. Degree with a certificate in Human Services. (45-0)

HUM-115 Encounters in Humanities (2 s.h.)

This course is designed to introduce students to the world of the humanities; describe the humanities genres and disciplines; provide a systematic method of assessing humanities artifacts; present opportunities to assess humanities artifacts; define methods of participating in the humanities. Four humanities genres are represented with their respective disciplines. (15-30) *Equivalent to 10-100, HUMA-100.*

HUM-139 British Life and Culture (3 s.h.)

Through NIACC's participation in the Iowa Community College Study Abroad Consortium, students have the opportunity for foreign study while remaining full-time NIACC students. Currently, the program is offered in London during the fall semester. British Life and Culture is a mandatory Humanities offering. On this program, students have the opportunity to earn 12 or more credit hours. Instructor's consent required. *Equivalent to HUMA-157, 89-157.*

IND-220 Metal Processing/Metallurgy (2 s.h.)

The student uses basic hand tools, drills, measuring tools, lathes, grinders, and welding equipment to build parts with practical applications in automotive service. (15-30) *Equivalent to INDU-705, 98-161.*

JOU-115 Introduction to Journalism (3 s.h.)

Introduction to Journalism is designed to help the student understand the role of the media in a democracy and how that role is accomplished. The student will also improve communication skills because the course stresses the fundamentals of news gathering, news writing, editing, and publication design. Students will have the opportunity to gain practical experience in news writing and interviewing. The course will stress print media. (45-0) *Equivalent to 30-121, JOUR-101.*

JOU-121 News Writing and Reporting (3 s.h.)

Prerequisite: JOU-115, Introduction to Journalism, and ability to type. News Writing and Reporting serves as a class designed to help the student improve his or her news gathering and reporting skills. Students will be expected to write stories for publication in *Logos*, the student news publication. Students will be expected to conduct interviews and utilize the computer programs used by the newspaper. (45-0) *Equivalent to 30-122, JOUR-102.*

JOU-145 Logos (1 s.h.)

Students may contribute to the student news publication, *Logos*, for 1-4 credits during their enrollment at NIACC. Credit may be earned through practical experience in reporting, photography, advertising, and other production-oriented work. Staff members are required to attend weekly staff meetings and meet a minimum number of contributions for a passing grade. (0-30) *Equivalent to 30-113, JOUR-113.*

LIT-130 African American Literature (3 s.h.)

Prerequisite: ENG-102, Composition and Speech I, or ENG-105,

Composition I, or comparable course or approval of instructor. A study of the writings of major African Americans from pre-Civil War to contemporary times. Slave narratives, autobiographies, letters, short stories, poetry, and novels will be studied as works of literature. Discussion and writing will focus on the critical analysis of the works. (45-0) *Equivalent to 30-203, LITS-103.*

LIT-131 Native American Literature (3 s.h.)

Prerequisite: ENG-102, Composition and Speech I, or ENG-105, Composition I, or comparable course or approval of instructor. A study of the writings of major American Indians from precontact with Europeans to contemporary times. Legends, autobiographies, letters, speeches, poetry, novels and short stories will be studied as works of literature. Discussion and writing will focus on the critical analysis of the works. (45-0) *Equivalent to 30-204, LITS-104.*

LIT-132 Women of Color (3 s.h.)

Prerequisite: ENG-102, Composition and Speech I, or ENG-105, Composition I, or comparable course or approval of instructor. A study of the writings of contemporary women of color from this country and around the world. Autobiographies, short stories, poetry, plays, essays, and novels will be studied. Discussion and writing will focus on the critical analysis of the works. (45-0) *Equivalent to 30-206, LITS-105.*

LIT-150 World Literature I (3 s.h.)

Prerequisite: ENG-102, Composition and Speech I or ENG-105, Composition I, or comparable course or approval of instructor. Readings are drawn from several of the world's great civilizations up to the 18th Century. This course emphasizes prose and poetry from the religious and secular traditions of the Far East, South Asia, the Ancient Mediterranean, Northern Europe, and Ancient and Medieval I Near East. (45-0) *Equivalent to 30-201, LITS-201.*

LIT-151 World Literature II (3 s.h.)

Prerequisite: ENG-102, Composition and Speech I, or ENG-105, Composition I, or comparable course or approval of instructor. Readings are taken from works of short story, poetry, novel, and drama from around the world. The course will primarily focus upon literature written from the early 18th Century to present. World Literature I is not required. (45-0) *Equivalent to 30-202, LITS-202.*

LIT-160 Short Story/Novel (3 s.h.)

Prerequisite: ENG-102, Composition and Speech I, or ENG-105, Composition I, or comparable course or approval of instructor. A study of selected works of fiction in the short story and novel as forms of literature. Discussion and writing emphasizing interpretation, critical analysis, and judgment/evaluation. (45-0) *Equivalent to 30-112, LITS-102.*

LIT-170 Poetry/Drama (3 s.h.)

Prerequisite: ENG-102, Composition and Speech I, or ENG-105, Composition I, or comparable course or approval of instructor. A study of selected works of poetry and drama as forms of literature. Discussion and writing emphasizing interpretation, critical analysis, and judgment/evaluation. (45-0) *Equivalent to 30-111, LITS-101.*

MAP-353 Clinical Procedures I (4 s.h.)

Assist physician with examinations and treatments, prepare patients for examinations and diagnostic procedures, administer first aid and

CPR, maintain and use aseptic techniques, obtain and record patient data. Perform routine tests, autoclave instruments, and prepare sterile setups. If taking curriculum beyond a one-year period, this course should be taken during the final year of the curriculum. (45-30) *Equivalent to 90-141, MEDA-701.*

MAP-358 Clinical Procedures II (5 s.h.)

Prerequisite: MAP-353, Clinical Procedures I. A continuation of Clinical Procedures I with emphasis on pharmacology, administration of medications, electrocardiography and the circulatory system. Principles of radiography and nutrition. Collection and testing of laboratory specimens, including phlebotomy. If taking curriculum beyond a one-year period, this course should be taken during the final year of the curriculum. (45-75) *Equivalent to 90-142, MEDA-702.*

MAP-616 Medical Assistant Externship (6 s.h.)

A seven-week term of practical experience in selected physicians' offices, clinics, or laboratories. It offers the students an opportunity to perform various clinical and office procedures under the supervision of the physician or assistant and the instructor/coordinator. This course has been designated as a pass/no pass course. (15-225) *Equivalent to 90-208, MEDA-720.*

MAS-111 Masonry Lab I (3 s.h.)

A basic course in brick, block, stone, and manufactured masonry products. Topics to be covered include terminology, safety, masonry tools, masonry materials, mortar mixing, basic masonry skills, and basic wall construction techniques. This course has been designated as a pass/no pass course. (0-90)

MAS-211 Masonry Lab II (3 s.h.)

Prerequisite: MAS-111, Masonry Lab I. This course provides a continuation of the masonry skills learned in Masonry Lab I. Topics include constructing walls, wall corners, window skills, openings, composite walls, and similar structures using a variety of brick, block, stone, and manufactured masonry products with bonds and materials. This course has been designated as a pass/no pass course. (0-90)

MAT-030 Enrich Math I (2 s.h.)

Prerequisite: Consent of instructor. This Enrich course will focus on strategies that enable adult students to understand and apply mathematics in their daily lives, at work, and in their leisure hours. This course has been designated as a pass/no pass course. (30-0) Instructor's consent required. *Equivalent to ENRI-047, 40-038.*

MAT-031 Enrich Math II (2 s.h.)

Prerequisite: Consent of instructor. This Enrich course will focus on strategies that enable adult students to understand and apply mathematics in their daily lives, at work, and in their leisure hours. Focus will be on decimals, fractions, and percents. The course is designed to follow Enrich Math I, but may be taken without that prerequisite. This course has been designated as a pass/no pass course. (30-0) Instructor's consent required. *Equivalent to 40-039, ENRI-048.*

MAT-053 Pre-Algebra (4 s.h.)

Prerequisite: A score of 15 or higher on the Pre-Algebra Pretest. This is a basic math course that will prepare students to compete

in an entry-level math course and to use numbers effectively in other situations. Upon completion, students will be able to perform basic computational skills with whole numbers, fractions, decimals, percentages, and integers. (MAT-053 is a developmental course. Credit earned will not satisfy the requirements for an Associate Degree and will not be used in calculating the cumulative grade point average for graduation.) Students will be allowed to register in Pre-Algebra upon referral from the instructor and/or appropriate diagnosis. (60-0) *Equivalent to MATH-040, 40-040.*

MAT-063 Elementary Algebra (4 s.h.)

Prerequisite: MAT-053, Pre-Algebra, with a grade of C or higher; OR COMPASS Pre-Algebra score of at least 49; OR ACT Math score of at least 16. This course is intended for students who have had no previous experience in algebra. Topics include: the real number system, linear and quadratic equations, exponents, factoring, rational expressions, graphing, systems of equations, radicals, the quadratic formula, square root manipulation, and application of concepts. Credit earned will not satisfy the requirements for an Associate Degree and will not be used in calculating the cumulative grade point average for graduation. (60-0) *Equivalent to 40-060, 40-119, MATH-060.*

MAT-102 Intermediate Algebra (4 s.h.)

Prerequisite: MAT-063, Elementary Algebra, with a grade of C or higher; or COMPASS Algebra score of at least 51; or ACT Math score of at least 20. This course will prepare the student for college algebra and trigonometry or other course work that requires the same level of difficulty. Topics include properties of real numbers, linear and quadratic equations, graphs of linear and quadratic equations, systems of equations, polynomials and rational expressions, inequalities, integral and rational exponents, radicals, and complex numbers. This course may not be used to satisfy core requirements. (60-0) *Equivalent to 40-120, MATH-100.*

MAT-110 Math for Liberal Arts (3 s.h.)

Prerequisite: COMPASS Pre-Algebra score of at least 49, and MAT-063, Elementary Algebra, with a grade of C or higher; OR ACT Math score of at least 16; and MAT-063, Elementary Algebra, with a grade of C or higher; OR COMPASS Algebra score of at least 51; OR ACT Math score of at least 20. Math for Liberal Arts provides a survey of mathematics topics that includes sets, logic, probability, statistics, number theory, geometry, and consumer math. This course will fulfill 3 hours of Natural Science/Mathematics requirement for the A.A. Degree. (45-0) *Equivalent to MATH-101, 40-121.*

MAT-112 Math for Elementary Teachers I (3 s.h.)

Prerequisite: MAT-102, Intermediate Algebra, with a grade of C or higher or ACT Math score of at least 21 or COMPASS Algebra score of at least 76. This course focuses on the fundamental concepts that all K-6 teachers will teach. Students will develop mathematical tools of reasoning, problem solving, and communication. Specific topics include sets, numeration, operations with whole numbers, fractions, and decimals, proportional reasoning, and statistics. Students who have completed two years of high school algebra with at least C grades have met the prerequisite for this course. (30-30) *Equivalent to 40-122, MATH-104.*

MAT-113 Math for Elementary Teachers II (3 s.h.)
Prerequisite: MAT-112, Math for Elementary Teachers I with a grade of C or higher. This course focuses on fundamental concepts that all K-6 teachers will teach. Students will develop mathematical tools of reasoning, problem solving, and communication. Specific topics include reasoning and proof, algebraic thinking and probability, geometry, measurement and technology in elementary classrooms. (30-30) *Equivalent to MATH-105.*

MAT-121 College Algebra (4 s.h.)
Prerequisite: MAT-102, Intermediate Algebra with a C or better, OR Math ACT score of at least 21, or Compass Placement score of 76 or better. This course is intended for students majoring in business, social science, biological sciences, liberal arts, and those mathematics students with insufficient background to begin the study of calculus. The course is a study of various classes of functions, their graphs, and applications. These include linear, polynomial, rational, root, inverse, exponential and logarithmic functions. Also included are systems of equations and inequalities, matrices, sequences and series, and the *Binomial Theorem*. Students who have completed two years of high school algebra with a grade of C or better, have met the prerequisites for this course. (60-0) *Equivalent to MATH-121.*

MAT-128 Precalculus (4 s.h.)
Prerequisite: COMPASS College Algebra score of at least 41 or ACT math score of at least 26. This course is intended to provide students with a summary of mathematics topics needed to study analytic geometry and calculus. The functional approach is emphasized. Topics covered include fundamentals of algebra, polynomial, rational, exponential, logarithmic, and trigonometric functions, analytic trigonometry, systems of equations, and analytic geometry of conics. Students who have successfully completed two years of high school algebra with a grade of C or better and one year of geometry may register for this class. (60-0) *Equivalent to MATH-161, 40-161.*

MAT-134 Trigonometry and Analytic Geometry (3 s.h.)
Prerequisite: MAT-121, College Algebra with a C or better, OR Math ACT score of at least 26. This course is a preparation course intended for students majoring in engineering, mathematics, physics, chemistry or certain vocational fields. The course is a study of both trigonometric and conic functions and equations. Both rectangular and polar coordinate systems are studied. (45-0) *Equivalent to MATH-134.*

MAT-140 Finite Math (3 s.h.)
Prerequisite: MAT-102, Intermediate Algebra, with a grade of C or higher; or COMPASS Algebra score of at least 76; or ACT Math score of at least 21. This course provides a sampling of applied mathematics topics from various disciplines. Some topics covered include elementary functions, linear systems, matrices, linear programming, set theory, and probability. Students who have successfully completed two years of high school algebra with a grade of C or better may register for this class. (45-0) *Equivalent to MATH-125, 40-125.*

MAT-156 Introduction to Statistics (3 s.h.)
Prerequisite: MAT-102, Intermediate Algebra, with a grade of C or higher; or COMPASS Algebra score of at least 76; or ACT Math

score of at least 21. This course is intended to introduce students to basic statistical concepts. It covers descriptive and inferential statistical methods, hypothesis testing on the mean and proportion, and linear regression. Students are also introduced to technology as it applies to introductory statistical methods. Students who have successfully completed two years of high school algebra with a grade of C or higher may register for this class. A graphing calculator is required. (45-0) *Equivalent to STAT-104, 40-140.*

MAT-161 Business Statistics (3 s.h.)
Prerequisite: MAT-156, Intro to Statistics, or by approval of instructor. Business Statistics looks at the use of statistical methods as an analytical tool in business situations. Data collection, sampling, data analysis, estimation, hypothesis testing, regression and correlation analysis, multinomial experiments and contingency tables, analysis of variance, and nonparametric statistics are covered. The use of calculators and statistical software is incorporated into the course. The course is intended to follow an introductory statistics course. A graphing calculator is required. (45-0) *Equivalent to 15-210, STAT-201.*

MAT-165 Calculus (3 s.h.)
Prerequisite: MAT-128, Precalculus, with a grade of C or higher; or MAT-121 College Algebra and MAT-134 Trigonometry and Analytic Geometry, or COMPASS College Algebra score of at least 41; or ACT Math score of at least 28. This course uses calculus techniques with an emphasis on applications to business, the social sciences, the life sciences, and also to certain career programs. Types of functions included in the course are polynomial, rational and root, exponential and logarithmic. Topics include derivatives and their uses, and integrals and their applications. Students who have successfully completed two years of algebra with a grade of C or higher, one year of geometry, and at least one semester of pre-calculus or trigonometry in high school may register for this class. A graphing calculator is required. (45-0) *Equivalent to 40-240, MATH-240.*

MAT-210 Calculus I (4 s.h.)
Prerequisite: MAT-128, Precalculus, with a grade of C or higher; or MAT-121, College Algebra and MAT-134, Trigonometry and Analytic Geometry; or COMPASS Trigonometry score of at least 51; or ACT Math score of at least 28. Topics include analysis of functions, limits, derivatives and integrals of algebraic, logarithmic, exponential, and trigonometric functions, and applications of differentiation. Students who have successfully completed two years of algebra, one year of geometry, and at least one semester of pre-calculus or trigonometry in high school may register for this class. (60-0) *Equivalent to 40-251, MATH-251.*

MAT-216 Calculus II (4 s.h.)
Prerequisite: MAT-210, Calculus I, with a grade of C or higher. This course is a continuation of MAT-210. Topics include applications of the definite integral; principles of integration evaluation; improper integrals; modeling with differential equations; and infinite sequences and series. A availability of a graphical calculator his highly recommended. (60-0) *Equivalent to 40-252, MATH-252.*

MAT-219 Calculus III (4 s.h.)
Prerequisite: MAT-216, Calculus II, with a grade of C or higher. This course is a continuation of MAT-216. Topics include graphs and

analysis of the conic sections, polar coordinates and parametric equations, three dimensional space, vectors and vector-valued functions, partial derivatives, multiple integrals, and topics in vector calculus. (60-0) *Equivalent to 40-253, MATH-253.*

MAT-226 Differential Equations with Laplace Transforms (3 s.h.)

Prerequisite: MAT-216, Calculus II, with a grade of C or higher. Topics include analytic methods for solving first and second order ordinary differential equations, higher order linear differential equations (including Laplace Transforms) and systems of differential equations, numerical methods for approximating solutions of differential equations, and applications using differential equations. (45-0) *Equivalent to 40-261, MATH-261.*

MAT-710 Business and Financial Math (2 s.h.)

Mathematical applications that apply to a variety of business problems. Topics covered include mathematical fundamentals; accounting applications including banking, payroll, and taxes; figuring percentages related to commissions, discounts, and markups; business problems in credit and interest; business and personal insurance; inventory and turnover; financial statements; and employment tests. (30-0) *Equivalent to 90-105, MATH-701.*

MAT-763 Building Trades Math (3 s.h.)

The course covers adding, subtracting, multiplying, and dividing whole numbers, fractions, and decimals. The English system and the metric system are used in measuring linear lines, surface areas, and volume shapes. Exercises include applying math skills and measuring skills to lay out geometric shapes from construction drawings. (45-0) *Equivalent to MATH-703, 91-158.*

MAT-770 Applied Math (2 s.h.)

Prerequisite: Compass Pre-Algebra score of at least 49; or ACT math score of at least 16; or MAT-053 Pre-Algebra, with a grade of C or higher. This course covers essential topics in algebra, including ratio and proportion, and basic statistics. This course is offered during the first eight weeks of the fall semester and the first eight weeks of the spring semester. (30-0) *Equivalent to MATH-710, 91-122.*

MAT-771 Applied Math II (2 s.h.)

Prerequisite: MAT-770, Applied Math, with a grade of C or higher. This course covers essential topics in geometry and trigonometry. This course is offered during the second eight weeks of the fall semester and the second eight weeks of the spring semester. (30-0) *Equivalent to MATH-711, 91-123.*

MFG-108 Computer-Aided Drafting (2 s.h.)

Prerequisite/Corequisite: MFG-120, Machine Trade Print Reading I; MFG-130, Machine Trade Print Reading II; or instructor's permission. Students are introduced to computer-aided drafting and design as an essential tool utilizing and enhancing the student's existing drafting skills. This is accomplished by utilizing ESPRIT through the generation of two- and three-dimensional orthographic drawings as well as pictorial techniques in the CAD environment. Operating systems commands, cursor manipulation, direct display interaction, geometry creation and manipulation, file storage and retrieval, entity manipulation such as rotation and mirroring, and the use of printers are just a few of the hardware and software capabilities to be covered. (15-30) *Equivalent to 96-270, TLDI-804.*

MFG-110 3-D Modeling (2 s.h.)

Prerequisite: MFG-108, Computer-Aided Drafting, or instructor's permission. Students are introduced to solid modeling as an essential tool, utilizing and enhancing designing skills. This is accomplished through the generation of 3-D drawings created in Solid Edge. Operating systems commands, cursor manipulation, file storage and retrieval, entity manipulation, such as rotation, mirroring, editing, dimensioning, sections, sheet metal parts, and assemblies capabilities will be covered. (15-30) *Equivalent to 96-173, TLDI-805.*

MFG-120 Machine Trade Print Reading I (1 s.h.)

An introduction to the importance of prints in industry. Covers isometric drawings, orthographic projection, auxiliary views, detail and assembly drawing, dimensions and tolerances, and sectional views. Integrates the alphabet of lines and principles of sketching. Other information covered includes title blocks, drawing change systems, drawing notes, and material lists. (0-30) *Equivalent to 96-163, TLDI-701.*

MFG-130 Machine Trade Print Reading II (1 s.h.)

Prerequisite/Corequisite: MFG-120, Machine Trade Print Reading I. Continues Machine Trade Print Reading I with emphasis on geometric dimensioning and tolerancing and the interpretation of more advanced prints used in the construction of tool and die and mold building. (0-30) *Equivalent to 96-164, TLDI-702.*

MFG-195 Manufacturing Processes I (2 s.h.)

Knowledge and skills in manufacturing materials and the procedures used to produce products in today's modern industry. Introduction to measurement and quality assurance with an emphasis on tolerance, measurement, and calibration. Final project, create a product using manual metal cutting processes. (15-30) *Equivalent to INDU-715, 91-120.*

MFG-216 Survey of Machine Tool Practices I (4 s.h.)

The student safely uses basic measuring tools, machine tools, and layout/inspection tools. Emphasis is on turning machines, drills, and hand tools. Safety is taught and enforced as it applies to each machine process. Proper terminology of the machinist trade is emphasized. The student follows blueprints to produce products within tolerances specified. (15-90) *Equivalent to 96-180, TLDI-760.*

MFG-217 Survey of Machine Tool Practices II (4 s.h.)

Prerequisite: MFG-216, Survey of Machine Tool Practices I. Continues Survey of Machine Tool Practices I. The student safely uses basic measuring tools, machine tools, and layout/inspection tools. Emphasis on basic milling machines. Safety is taught and enforced as it applies to each machine process. Proper terminology of the machinist trade is emphasized. The student follows blueprints to produce products within tolerances specified. (15-90) *Equivalent to 96-181, TLDI-761.*

MFG-218 Survey of Machine Tool Practices III (4 s.h.)

Prerequisite: MFG-216, Survey of Machine Tool Practices I; MFG-217, Survey of Machine Tool Practices II. The student safely performs cylindrical grinder and surface grinder operations. Using the grinders, the student makes round and flat surfaces to conform

to the specified tolerances. Emphasis is placed on safety, proper use of tools, and using correct terminology of the machinist trade. (15-90) *Equivalent to 96-182, TLDI-762.*

MFG-219 Capstone Manufacturing Project (4 s.h.)

Prerequisite: MFG-216, Survey of Machine Tool Practices I - Pass with a C or better; MFG-217, Survey of Machine Tool Practices II - Pass with a C or better; MFG-218, Survey of Machine Tool Practices III - Pass with a C or better; MFG-302, CNC Fundamentals - Pass with a C or better. The goal is for the learner to build an approved multiple-part project using machine tools and communicate the successes and difficulties encountered in the project-building process. (15-90) *Equivalent to 96-193, TLDI-763.*

MFG-245 Machine Theory & Operations I (9 s.h.)

Prerequisite/Corequisite: MFG-120, Machine Trade Print Reading I, MAT-770, Applied Math, and MAT-771, Applied Math II. Covers theory and lab use of basic measuring and machining tools, layout inspection tools, as well as bench work. Safety is taught and enforced as it applies to each machine process. Proper terminology of the machinist trade is emphasized as well as following blueprints and holding tolerances through the use of a variety of machining processes to produce a product. (60-225) *Equivalent to 96-165, TLDI-703.*

MFG-248 Machine Theory & Operations II (7 s.h.)

Prerequisite: MFG-245, Machine Theory and Operations I; MAT-770, Applied Math; MAT-771, Applied Math II; MFG-120, Machine Trade Print Reading I. Corequisite: MFG-130, Machine Trade Print Reading II. Continues Machine Theory and Operations I. Covers more advanced principles in setup and operation of mills, lathes, and grinders, with an introduction to carbide tooling along with a continued emphasis on shop safety, communication, and cooperation. Stresses the interrelationship of manufactured mating parts. (45-195) *Equivalent to 96-166, TLDI-704.*

MFG-302 CNC Fundamentals (3 s.h.)

Prerequisite/Corequisite: MFG-248, Machine Theory and Operations II. Students must obtain a grade of C or better in MFG-248, Machine Theory and Operations II. Covers computer numerical control (CNC) as it relates to milling machines, turning lathes, microcomputers, and related software. Emphasis on input language, codes, machine set-up and operation, inspection of parts, and communication of peripherals. (30-30) *Equivalent to 96-167, TLDI-705.*

MFG-312 Advanced CNC (2 s.h.)

Prerequisite/Corequisite: MFG-459, Injection Mold Making. A continuation of CNC and EDM fundamentals as well as mold making with additional instruction and practice in the use of CAD, wire, and ram electrical discharge machines in the construction of die and mold components. (15-45) *Equivalent to TLDI-814, 96-275.*

MFG-320 Computer-Aided Manufacturing (3 s.h.)

Prerequisite/Corequisite: MFG-108, Computer-Aided Drafting, MFG-302, CNC Fundamentals, MFG-423, Jig and Fixtures, and MFG-380, EDM Fundamentals. Students must obtain a grade of C or better in MFG-302, CNC Fundamentals. This program provides an introduction to (Process Modeling) utilizing the CNC graphics programming system. Using engineering drawings, students

program various parts for CNC mills, CNC lathes, and CNC EDM. Related topics include job planning, tool selection, construction of a process model, tool path verification, simulation, quality control, CAD, CAM data transfer, and CNC code generation. (15-60) *Equivalent to TLDI-811, 96-272.*

MFG-380 EDM Fundamentals (2 s.h.)

Prerequisite/Corequisite: MFG-302, CNC Fundamentals, and MFG-423, Jig and Fixtures. Students must obtain a grade of C or better in MFG-302, CNC Fundamentals. The students are introduced to the electrical discharge machines, both wire and ram-type. Emphasis on how these tools are used in the manufacturing of punch and die components and injection mold cores and cavities. (15-45) *Equivalent to 96-172, TLDI-803.*

MFG-408 Basic Die Making (8 s.h.)

Prerequisite/Corequisite: MFG-423, Jig and Fixtures. This course is a continuation of MFG-423, Jig and Fixtures with instruction and practice in building a progressive or compound die. Emphasis is placed on the tool building procedures learned in MFG-423, Jig and Fixtures and toward fabricating dies. Instruction is given on the considerations involved in developing die components, such as calculation of die clearances, bend allowance, cutting forces, press tonnage requirements, and practice in building a complete functional die. (45-225) *Equivalent to TLDI-810, 96-271.*

MFG-423 Jig and Fixtures (5 s.h.)

Prerequisite/Corequisite: Students must obtain a grade of C or better in MFG-302, CNC Fundamentals, and MFG-248, Machine Theory and Operations II. This course is an introduction to the design of industrial tools and machining characteristics of tool components. The student is introduced to additional machining skills that will be encountered in typical machine shops in the building of molds, dies, jigs, fixtures, and precision machine parts. (30-160) *Equivalent to 96-171, TLDI-802.*

MFG-459 Injection Mold Making (9 s.h.)

Prerequisite/Corequisite: MFG-408, Basic Die Making; MFG-460, Plastic Materials. The student is introduced to the field of mold making for plastic injection molds, blow molds, compression and transfer molds, zinc and aluminum die casting molds. Focus is placed on mold theory, mold repair, identification and correction of mold problems, standardization of mold components, mold blueprint reading, and the machine shop skills necessary for mold making, as related to thermoplastic injection molds. In addition the student develops necessary basic skills for gating, venting, heating, cooling, stoning and polishing as well as other hands-on experiences necessary to manufacture mold plates, cores, cavities, and ejection systems. The student builds a prototype injection mold. (45-285) *Equivalent to TLDI-813, 96-274.*

MFG-460 Plastic Materials (1 s.h.)

This is a survey course designed to introduce the student to the field of plastics. This overview includes thermoplastics and thermoset materials along with the major processing methods being utilized by industry today. (15-0) *Equivalent to TLDI-812, 96-273.*

MFG-500 Statistical Process Control (1 s.h.)

Covers the current transformation methods of industry and business toward a complete quality control system. Management

theory on quality, productivity, and controlled charting techniques are included. (15-0) *Equivalent to 96-170, TLDI-801.*

MGT-101 Principles of Management (3 s.h.)

BUS-102, Introduction to Business, is recommended. Provides students with a general introductory management learning experience. Role of management in today's business environment; management's influence on employee productivity, employee satisfaction and organizational effectiveness; major control devices of management. (45-0) *Equivalent to 15-142, BUSN-130.*

MGT-130 Principles of Supervision (3 s.h.)

This course is designed for individuals who hold, or who will hold, supervisory positions. The course involves the study of the major managerial functions (planning, organizing, staffing, directing, and controlling) and is augmented by other pervasive areas of supervision such as communication, motivation, decision making, and human relations. (45-0) *Equivalent to 15-144, BUSN-131.*

MGT-170 Human Resource Management (3 s.h.)

Course describes the transition from personnel management to human resources management. The focus is on the systematic process of recruitment, selection, developing, and appraising employees. (45-0) *Equivalent to 15-149, BUSN-132.*

MGT-220 Introduction to Sport Management (3 s.h.)

For individuals entering the sport and physical education profession, it is critical to understand the theory and practice of ethical management principles in sport/fitness organizations. Administrators need to understand marketing, financial and legal aspects regarding the management of facilities, events, and organizations. These principles are applied to organizations within interscholastic, intercollegiate, international and professional sport along with the health/fitness and community recreation industries. (45-0) *Equivalent to 15-126, SPOR-101.*

MGT-221 Current Issues in Sport (3 s.h.)

Prerequisite: MGT-220, Introduction to Sport Management. Sport, health/fitness, and recreation organizations have been facing many changes in recent years. These changes have exposed many problems that these organizations must solve in order to ensure future success. This class is designed to expose students to these issues in order to prepare them for management careers in the sport, health/fitness, and recreation fields. (45-0) *Equivalent to 15-127, SPOR-120.*

MGT-225A-C Internship in Sport Management (1-3 s.h.)

Prerequisite: Recommended MGT-220, Introduction to Sport Management, or permission of instructor. For individuals entering into the sport and physical education profession, it is critical to gain practical experience in the field. Internships in sport management are designed to give the student an inside look at the day-to-day operation of businesses in the sport industry. They are also designed to give each student work experience within the chosen industry. This course is repeatable for up to six credits. (15-45 to 135) *Equivalent to 15-128, SPOR-201A-C.*

MKT-110 Principles of Marketing (3 s.h.)

A study of the role of marketing in society as well as a study of target market (customer) determination and selection, product

strategy, channels of distribution, pricing concepts, and promotional activities that are used in business today. (45-0) *Equivalent to 15-221, MRKT-101.*

MKT-140 Principles of Selling (3 s.h.)

This course is centered around the study of concepts and practices used by professional salespeople in today's market-driven economy. The course also includes a study of selling as a promotional strategy used by marketers. (45-0) *Equivalent to 15-223, MRKT-103.*

MKT-150 Principles of Advertising (3 s.h.)

The study of advertising process and its place in business and society. The course involves learning about the planning, creating and placement of advertising. The course also covers the topic of integrated promotion. (45-0) *Equivalent to 15-222, MRKT-102.*

MKT-160 Principles of Retailing (3 s.h.)

The study of the selling of goods and services to ultimate consumers, involving distribution, inventory control, site selection, pricing, and other topics pertinent to successful retail business operations. (45-0) *Equivalent to 90-125, RETL-701.*

MKT-170 Retail Buying (3 s.h.)

Buying duties and policies, how to buy, how much to buy, buying methods, source selection, price lines, and sales records. Product knowledge and analysis relative to the buying function and value analysis of products. (30-30) *Equivalent to RETL-801, 90-234.*

MLT-101 Introduction to Lab Science (2 s.h.)

This course introduces the basic concepts for education and career development in the field of laboratory science and the health care profession. Current health care systems and trends are emphasized along with the factors having current and future impact on medical laboratories. The organization and role of the clinical laboratory are explored, as well as medical ethics and conduct, employment opportunities, and professional organizations. (30-0) *Equivalent to PHYS-100, 70-100.*

MLT-120 Urinalysis (3 s.h.)

This course provides the foundation for the study of urine formation and its assessment along with the determination of the physical, chemical, and microscopic properties of urine in normal and abnormal states. Objectives also included are the development and evaluation of body fluids including cerebrospinal, synovial, serous, and amniotic fluids. (30-30) *Equivalent to 70-249, HEAL-105.*

MUA-120 Applied Piano (1 s.h.)

Individualized instruction in piano performance for students that are beginners. Instructional materials include a repertoire of basic piano literature. Students register for 1 credit hour (one 30-minute lesson per week) which is repeatable to a maximum of 4 credit hours. (7.5-15) *Equivalent to MUSI-195, 50-195.*

MUA-285A-B Applied Voice (1-2 s.h.)

Individualized instruction in vocal performance through the development of strong technical foundation and well-rounded musicianship. Instructional materials include a repertoire of traditional and contemporary literature. Students may register for 1 credit hour (30-minute lesson per week) or 2 credit hours (60-minute lesson per week) each

hour (30-minute lesson per week) or 2 credit hours (60-minute lesson per week) each semester. Each course is repeatable for credit to a maximum of 8 credit hours. Must have instructor consent for 2 credit hours. (7.5 to 15 -15 to 30) *Equivalent to 50-168, MUSI-168A-B.*

MUA-297A-B Applied Drum Set (1-2 s.h.)

Individualized instruction in instrumental performance through the development of strong technical foundation and well-rounded musicianship. Instructional materials include a repertoire of traditional and contemporary literature. Students may register for 1 credit hour (30-minute lesson per week) or 2 credit hours (60-minute lesson per week) each semester. Each course is repeatable for credit to a maximum of 8 credit hours. Must have instructor consent for 2 credit hours. (7.5 to 15 -15 to 30) *Equivalent to 50-169, MUSI-169A-B.*

MUA-298A-B Applied Guitar (1-2 s.h.)

Individualized instruction in instrumental performance through the development of strong technical foundation and well-rounded musicianship. Instructional materials include a repertoire of traditional and contemporary literature. Students may register for 1 credit hour (30-minute lesson per week) or 2 credit hours (60-minute lesson per week) each semester. Each course is repeatable for credit to a maximum of 8 credit hours. Must have instructor consent for 2 credit hours. (7.5 to 15 -15 to 30) *Equivalent to 50-170, MUSI-170A-B.*

MUA-299A-B Applied Piano II (1-2 s.h.)

Prerequisite for MUA-299 is 1 credit hour of MUA-120, Applied Piano, or equivalent. Individualized instruction in instrumental performance through the development of strong technical foundation and well-rounded musicianship. Instructional materials include a repertoire of traditional and contemporary literature. Students may register for 1 credit hour (30-minute lesson per week) or 2 credit hours (60-minute lesson per week) each semester. Each course is repeatable for credit to a maximum of 8 credit hours. Must have instructor consent for 2 credit hours. (7.5 to 15-15-30) *Equivalent to 50-157, MUSI-196A-B.*

MUS-100 Music Appreciation (3 s.h.)

Music Appreciation is concerned with the development of Western Classical Music that encompasses nearly 2500 years of history beginning in 400 BC and culminating in the 1990s. This course provides the student knowledge of six commonly recognized historical eras through lectures, recordings, videotapes, digital media, and possible guest speakers. (45-0) *Equivalent to 50-113, MUSI-101.*

MUS-105 Introduction to Music Theory (2 s.h.)

Prerequisite: previous instrumental or vocal music experience. Introduction to Music Theory is designed as a precourse to any Music Theory sequence. The course work will emphasize the circle of fifths, major scales, all forms of the minor scales, parallel and relative scale relationships, and music vocabulary. This course will also introduce the aural skills of scale identification, rhythmic dictation, and interval identification. (22.5-15) *Equivalent to 50-120, MUSI-120.*

MUS-122 Music Theory I (4 s.h.)

Prerequisite: Previous instrumental or vocal experience. Music Theory I examines all the basic materials of music which include

notation, scales, intervals, chords, melody, harmony, rhythm and texture. Other areas of analysis take in cadence types, chordal inversions, figured bass harmonization and principles of part writing based on 18th century models. This course introduces fundamentals of the aural skills, ear training and sight singing. (45-60) *Equivalent to 50-121, MUSI-121.*

MUS-123 Music Theory II (4 s.h.)

Prerequisite: Final grade of C or better in MUS-122, Music Theory I, or instructor consent. A continuation of MUS-122, Music Theory II will examine in more detail the harmonic element of music. Discussions will include the harmonic progression, modulation and specific types of seventh chords as they relate to 18th century counterpoint. Continued development of ear training and sight-singing skills. (45-60) *Equivalent to 50-122, MUSI-122.*

MUS-140 Concert Choir (1 s.h.)

Concert Choir is open to all students interested in vocal music. The group performs one formal concert on campus each semester, as well as community performances, area high school assemblies, and community meetings. Course may be repeated for credit. (45-90) *Equivalent to 50-150, MUSI-150.*

MUS-144 Orchestra (1 s.h.)

The North Iowa Symphony Orchestra, sponsored by North Iowa Area Community College rehearses one night each week in preparation for concerts and programs. Open to all interested NIACC students and adults in the North Iowa area. Some sections of the orchestra require an audition. Course is repeatable for credit to a maximum of 4 credit hours. (20-0) *Equivalent to MUSI-153, 50-153.*

MUS-145 Concert Band (1 s.h.)

The North Iowa Concert Band, sponsored by North Iowa Area Community College, rehearses one night each week in preparation for concerts and programs. Open to all interested NIACC students and adults in the North Iowa area. Course is repeatable for credit to a maximum of 4 credit hours. (20-0) *Equivalent to 50-152, MUSI-152.*

MUS-150 Chamber Ensemble (1 s.h.)

Course is designed to provide an opportunity to study and perform chamber literature of the last three centuries. Groups may vary in size from duets to sextets for brass, woodwind, string, or percussion instrumentalists. Also includes jazz combos. Time arranged. Course is repeatable for credit to a maximum of 4 credit hours. (15-0) *Equivalent to MUSI-155, 50-155.*

MUS-152 Vocal Ensemble--NIACC Singers (1 s.h.)

Corequisite: MUS-140, Concert Choir. NIACC Singers is an auditioned group for students with a high level of competency in vocal music. Auditions may be completed individually by contacting the professor. The group performs one formal concert on campus each semester, as well as community performances, area high school assemblies, and community meetings. Course may be repeated for credit. (0-60) *Equivalent to 50-151, MUSI-151.*

MUS-163 Instrumental Jazz Ensemble (1 s.h.)

The Instrumental Jazz Ensemble rehearses two and a half hours each week in preparation for concerts on campus, for

area high school assemblies, festivals, and community events. Concentration on jazz repertoire from 1930 to the present. Open to all interested NIACC students by audition. Course is repeatable for credit to a maximum of 4 credit hours. (30-0) *Equivalent to MUSI-154, 50-154.*

MUS-222 Music Theory III (4 s.h.)

Prerequisite: Final grade of C or better in MUS-123, Music Theory II, or instructor consent. Students will develop analytical, written, aural, and sight-singing skills in music covering the Renaissance through the early Classical period. (45-30) *Equivalent to 50-123, MUSI-221.*

MUS-223 Music Theory IV (4 s.h.)

Prerequisite: Final grade of C or better in MUS-222, Music Theory III, or instructor consent. Students will develop analytical, written, aural, and sight-singing skills in music covering the late Classical through the 20th Century. (45-30) *Equivalent to 50-124, MUSI-222.*

NET-112 Technology Essentials (3 s.h.)

Have a computer that needs some help? Learn how to install memory, upgrade Windows, and scan for viruses. This hands-on course will teach you how to connect computers and share files, bring pictures onto your computer, hook up that scanner and printer, and create a home computer network. (45-0) *Equivalent to 15-143, ISTS-100.*

NET-113 IT Essentials (4 s.h.)

Presents an in-depth exposure to computer hardware and operating systems. Students learn the functionality of hardware and software components as well as suggested best practices for maintenance and safety issues. Students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. This course helps students prepare for CompTIA's A+ certification exam, which covers the knowledge and skills essential for becoming a successful computer technician. (60-0)

NET-123 Computer Hardware Basics (4 s.h.)

Prerequisite: BCA-101, Introduction to Computers and Information Systems, NET-135, Operating Systems I, or permission of instructor. This course prepares the student to properly install, configure, upgrade, troubleshoot and repair microcomputer hardware. This includes basic knowledge of desktop and portable systems, basic networking concepts, and printers. The student must also demonstrate knowledge of safety and common preventive maintenance procedures. Topics include advanced DOS and Windows concepts such as batch files and memory management, installing and uninstalling software, basic hardware installation, and troubleshooting. (60-0) *Equivalent to 15-178, ISTS-130.*

NET-133 Operating System Software Basics (4 s.h.)

Prerequisite: NET-113, IT Essentials, or permission of instructor. This course expands on concepts and skills learned in NET-113, IT Essentials, and provides the knowledge, skills, and abilities essential for a successful computer service technician at the advanced level. Students are provided theoretical information and hands-on

experiences in advanced topics of computer troubleshooting and repair. Students will be presented with opportunities to identify and diagnose hardware and software problems; implement and test solution(s); and prepare appropriate documentation. (60-0) *Equivalent to 15-209, ISTS-131.*

NET-135 Operating Systems I (3 s.h.)

Prerequisite: BCA-101, Introduction to Computers and Information Systems, or permission of the instructor. Operating Systems I provides for core skills and understanding needed to successfully complete NIACC's IST Program. Students gain knowledge and understanding for operating systems such as MS-DOS, Microsoft Windows 98, and Windows NT. Students will also be introduced to other operating systems such as Linux, Apple MacOS, Microsoft Windows 2000 Professional, and Microsoft Windows XP Professional. This course addresses operating system interfaces and controls, resource management, file management, application management, and network client connectivity. (45-0) *Equivalent to 15-161, ISTS-110.*

NET-136 Operating Systems II (3 s.h.)

Prerequisite: NET-113, IT Essentials, or permission of the instructor. This course is a continuation of Operating Systems I. It addresses advanced topics such as file management, shell programming, security, network and service administration, fault tolerance, recovery, troubleshooting, and operating system structure. This will be accomplished by studying the Unix or Linux operating systems. (45-0) *Equivalent to 15-177, ISTS-111.*

NET-157 Network Design I (3 s.h.)

Prerequisite: NET-233, CISCO Switches, or permission of instructor. This course leads to the CCDA certification. The CCDA certification (CISCO Certified Design Associate) indicates a foundation or apprentice knowledge of network design for the small office/home office (SOHO) market. CCDA certified professionals can design routed and switched networks involving LAN, WAN, and dial access services for businesses and organizations with networks of fewer than 100 nodes. (45-0) *Equivalent to 15-288, SRNE-202.*

NET-158 Network Design II (4 s.h.)

Prerequisite: NET-157, Network Design I; NET-254, CISCO Advanced Routing; NET-264, CISCO WAN Remote Access; and NET-274, CISCO Switching, Multilayer, or permission of instructor. This course leads to the CCDP certification. The CCDP certification (CISCO Certified Design Professional) indicates advanced or journeyman knowledge of network design. With a CCDP, a network professional can design routed and switched networks involving LAN, WAN, and dial access services for businesses and organizations with 100 to more than 500 nodes. (60-0) *Equivalent to 15-289, SRNE-206.*

NET-160 Network Design & Documentation (3 s.h.)

Prerequisite: NET-201, Network LANs and WANs, or permission of instructor. This course leads to the CCDA certification. The CCDA certification (CISCO Certified Design Associate) indicates a foundation or apprentice knowledge of network design for the small office/home office (SOHO) market. CCDA certified professionals can design routed and switched networks involving LAN, WAN, and dial access services for businesses and organizations

with networks of fewer than 100 nodes. Advanced topics leading to CCDP certification (CISCO Certified Design Professional) will be covered. (45-0)

NET-201 Network LANs and WANs (4 s.h.)

Prerequisite: NET-223, CISCO Routers or permission of instructor. LAN/WAN Technologies focuses on advanced IP addressing techniques (Variable Length Subnet Masking [VLSM], Network Address Translation [NAT], Port Address Translation [PAT], and DHCP), intermediate routing protocols (RIP v2, single-area OSPF, EIGRP), command-line interface configuration of switches and routers, Ethernet switching, Virtual LANs (VLANs), Spanning Tree Protocol (STP), and VLAN Trunking Protocol (VTP). Also covered are WAN technology and terminology, PPP, ISDN, DDR, Frame Relay, and network management. Particular emphasis is given to students being able to demonstrate the ability to apply learning from CCNA1 and 2 to a network and to be able to explain how and why a particular strategy is employed. (60-0)

NET-213 CISCO Networking (4 s.h.)

Networking Basics is the first of the four courses leading to the CISCO Certified Network Associate (CCNA) designation. CISCO Networking (CCNA 1) introduces CISCO Networking Academy Program students to the networking field. The course focuses on network terminology and protocols, local-area networks (LANs), wide-area networks (WANs), Open System Interconnection (OSI) models, cabling, cabling tools, routers, router programming, Ethernet, Internet Protocol (IP) addressing, and network standards. In addition, instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment and all local, state, and federal safety, building, and environmental codes and regulations. (60-0) *Equivalent to 15-156, ISTS-101.*

NET-223 CISCO Routers (4 s.h.)

Prerequisite: NET-213, CISCO Networking, or permission of the instructor. Routers and Routing Basics is the second of four CCNA courses leading to the CISCO Certified Network Associate (CCNA) designation. CISCO Routers Networking II (CCNA 2) focuses on initial router configuration, CISCO IOS Software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). Students will develop skills on how to configure a router, managing CISCO IOS Software, configuring routing protocol on routers, and set the access lists to control the access to routers. (60-0) *Equivalent to 15-157, ISTS-102.*

NET-233 CISCO Switches (4 s.h.)

Prerequisite: NET-223, CISCO Routers, or permission of the instructor. Switching Basics and Intermediate Routing is the third of four courses leading to the CISCO Certified Network Associate (CCNA) designation. CISCO Switches (CCNA 3) focuses on advanced IP addressing techniques (Variable Length Subnet Masking [VLSM]), intermediate routing protocols (RIP v2, single-area OSPF, EIGRP), command-line interface configuration of switches, Ethernet switching, Virtual LANs (VLANs), Spanning Tree Protocol (STP), and VLAN Trunking Protocol (VTP). Particular emphasis is given to students being able to demonstrate the ability to apply learning from CCNA 1 and 2 to a network and to be able to explain how and why a particular strategy is employed. (60-0) *Equivalent to 15-158, ISTS-201.*

NET-243 CISCO Wide Area Network (WAN) (4 s.h.)

Prerequisite: NET-233, CISCO Switches, or permission of the instructor. WAN Technologies is the last of four courses leading to the CISCO Certified Network Associate (CCNA) designation. CISCO Wide Area Network (WAN)(CCNA 4) focuses on advanced IP addressing techniques (Network Address Translation [NAT], Port Address Translation [PAT], and DHCP), WAN technology and terminology, PPP, ISDN, DDR, Frame Relay, network management and introduction to optical networking. Particular emphasis is given to students being able to demonstrate the ability to apply knowledge from CCNA 1, CCNA 2, and CCNA 3 to a network and to be able to explain how and why a particular strategy is employed. In addition, the student will prepare for taking the CCNA Exam. (60-0) *Equivalent to 15-159, ISTS-202.*

NET-246 Perimeter Defense (3 s.h.)

Prerequisite: NET-223, CISCO Routers, or permission of instructor. This course introduces the network security specialist to the various methodologies for defending a network. The student will be introduced to the concepts, principles, types and topologies of firewalls including: packet filtering, proxy firewalls, application gateways, circuit gateways and stateful inspection. Students taking this class will be prepared to take the SECUR (Securing CISCO IOS Networks) and CSPFA (CISCO Secure PIX Firewall Advanced) exams in preparation for the CISCO Firewall Specialist. These exams also count toward security--professional-level CCSP certification. (CCSP - CISCO Certified Security Professional) (48-0)

NET-247 Internal Defense (3 s.h.)

Prerequisite: NET-246, Perimeter Defense, or permission of instructor. This course will expose the student to the various defense methodologies associated with Virtual Private Networks (VPN). Host Intrusion Detection Systems (HIDS) and Network Intrusion Detection Systems (NIDS) will be discussed along with in-depth coverage of incident handling and response. It will introduce the student to the best practices associated with properly securing business critical network systems using VPNs. (48-0)

NET-254 CISCO Advanced Routing (4 s.h.)

Prerequisite: NET-243, CISCO Wide Area Network (WAN), or NET-201, Network LANs and WANs, or permission of the instructor. This course focuses on advanced routing using CISCO routers connected in local-area networks (LANs) and wide-area networks (WANs) typically found at medium to large network sites. Upon completion of this training course, the student will be able to select and implement the appropriate CISCO IOS services required to build a scalable routed network. (45-30) *Equivalent to 15-277, SRNE-200.*

NET-260 Advanced Routing/Switching (6 s.h.)

Prerequisite: NET-201, Network LANs/WANs, or permission of the instructor. Advanced Routing/Switching introduces students to scaling IP networks and the process of deployment of the state-of-the-art campus LANs. The course focuses on the selection and implementation of the appropriate CISCO IOS services to build reliable scalable multilayer-switched LANs. Students will develop skills with VLANs, VTP, STP, inter-VLAN routing, multilayer switching, redundancy, CISCO AVVID solutions, QoS issues, campus LAN security, and emerging transparent LAN services. This hands-on, lab-oriented course stresses the design, implementation, operation, and troubleshooting of switched and routed environments. Also

students learn to use VLSM, private addressing, and NAT optimize IP address utilization. Content is related to learning how to implement the RIPv2, EIGRP, OSPF, IS-IS, and BGP routing protocols. In addition the course details the important techniques used for route filtering and route redistribution. (90-0)

NET-264 CISCO WAN Remote Access (4 s.h.)

Prerequisite: NET-201, Network LANs & WANs, or NET-243, CISCO Wide Area Network (WAN), or permission of the instructor. Remote Access is the second of four courses leading to the CISCO Certified Network Professional (CCNP) designation. Network Remote Access (CCNP 2) introduces students to the implementation of CISCO routers in WAN applications. The course focuses on the selection and implementation of the appropriate CISCO IOS services required to build intranet remote access links. Students will develop skills with the specific WAN technologies of analog dial-up, ISDN BRI and PRI, Frame Relay, broadband, and VPN. This hands-on, lab-oriented course stresses the design, implementation, operation, and level 1 troubleshooting of common WAN connectivity options. (60-0) *Equivalent to 15-278, SRNE-201.*

NET-274 CISCO Switching, Multilayer (4 s.h.)

Prerequisite: NET-254, CISCO Advanced Routing, or permission of instructor. CISCO Switching, Multilayer is the third of four courses leading to the CISCO Certified Network Professional (CCNP) designation. CISCO Switching Multilayer (CCNP 3) introduces students to the process of deployment of the state-of-the-art campus LANS. The course focuses on the selection and implementation of the appropriate CISCO IOS services to build reliable scalable multilayer-switched LANS. Students will develop skills with VLANS, VTP, STP, inter-VLAN routing, multilayer switching, redundancy, CISCO AVVID solutions, QoS issues, campus LAN security, and emergency transparent LAN services. This hands-on, lab-oriented course stresses the design, implementation, operation, and troubleshooting of switched and routed environments. (45-30) *Equivalent to 15-285, SRNE-203.*

NET-284 CISCO Support (4 s.h.)

Prerequisite: NET-260, Advanced Routing/Switching or NET-254, CISCO Advanced Routing and NET-274, CISCO Switching, Multilayer; NET-264, CISCO WAN Remote Access; or permission of the instructor. Network Troubleshooting is the last of four courses leading to the CISCO Certified Network Professional (CCNP) certification. Network Support (CCNP 4) teaches students about troubleshooting network problems. The course focuses on documenting and baselining a network, troubleshooting methodologies and tools, and Layers 1 to 7 troubleshooting. (60-0) *Equivalent to 15-286, SRNE-204.*

NET-301 Network Cases (Voice over IP) (4 s.h.)

Prerequisite: NET-201, Network LANS & WANS or NET-243, CISCO Wide Area Network (WAN). Network Cases is a capstone course drawing together key networking resources. The course primarily focuses on voice and data integration, Voice over IP (VoIP) specifically, and the technologies that make it function. Components and standards of VoIP, also referred to as IP Telephony, are covered along with the reasoning behind its use. (60-0)

NET-304 Windows Workstation Operating Systems (4 s.h.)

Prerequisite: NET-113, IT Essentials, or permission of the instructor. This course prepares the student to properly install, configure, upgrade, troubleshoot, and repair personal computer operating systems such as Microsoft Windows 2000 Professional and Microsoft Windows XP Professional. This course also addresses operating system interface controls; file system management; application management; network client configuration; and, operating system security. (60-0) *Equivalent to 15-182, ISTS-120.*

NET-314 Windows Server (4 s.h.)

Prerequisite: NET-304, Windows Workstation Operating Systems, or permission of the instructor. This course goes into detail on topics of network operating system such as design, planning, installation, configuration, security, performance, administration, troubleshooting, fault tolerance, and disaster recovery. Client setup, file and print sharing, directory services, remote access, along with other network services will be explored. (60-0) *Equivalent to 15-163, ISTS-205.*

NET-324 Windows Network Management (4 s.h.)

Prerequisite: NET-314, Windows Server, or permission of the instructor. This course applies the students' knowledge of computer networking, client operating systems, and server operating systems to the management of a complete Microsoft Windows network environment. Students will learn to manage client and server computers, storage resources, NTFS permissions, shared drives and printers, server performance and security, Active Directory objects, group policies, the Active Directory service, TCP/IP, name resolution protocols, applications, IIS, remote access, disaster recovery, and security. Concepts learned in this course lead toward the Microsoft Certified Professional Exam #70-218 Managing a Microsoft Windows 2000 Network Environment. (60-0) *Equivalent to 15-184, ISTS-121.*

NET-375 Cyber Security Design Cases (3 s.h.)

Prerequisite: NET-246, Perimeter Defense, or permission of instructor. This course affords the network cyber security specialist the opportunity to conduct a vulnerability analysis upon a network using attack methodologies learned by the student in previous courses. The student must demonstrate the ability to design, plan, and execute a vulnerability analysis against an organized network, as well as develop security policies to sustain a corporate environment. The student must prepare a written report about the security design, attack methodology, and the tools and techniques used. (48-0)

NET-490 Inter/Intra - Applications (4 s.h.)

Prerequisite: NET-304, Windows Workstation Operating Systems, and NET-314, Windows Server, or permission of the instructor. This course enables students to design, set up, configure, and manage Internet and Intranet services such as Web, e-mail, DNS, security, and FTP along with gaining knowledge and insight into management of emerging Internet and Intranet technologies. Students will gain hands-on experiences in the installation, configuration, and management of applications such as Microsoft Internet Information Services (IIS), Apache Web Server, Microsoft Exchange Server, and Lotus Domino. (60-0) *Equivalent to 15-166, ISTS-206.*

NET-613 Information Data Assurance (3 s.h.)
Prerequisite: NET-213, CISCO Networking, or NET-113, IT Essentials, or permission of the instructor. This course will provide an overview of issues related to security in a networked environment, including such topics as security and disaster recovery, security within information services, security within an organization, virus protection, and Internet security/firewalls. (45-0) *Equivalent to 15-167, ISTS-210.*

NET-635 Ethical Hacking (3 s.h.)
Prerequisite: NET-613, Information Data Assurance, or permission of instructor. This course will go into more depth using the tools and concepts students were exposed to in Information "Data" Assurance. The student will be introduced to the concepts, principles, and techniques supplemented by hands-on exercises for defending from an attack. These methodologies are presented within the context of properly securing the network. The course will emphasize network attack defense methodologies with the emphasis on student use of network attack techniques and tools. The concept of Systems Security Certified Practitioner (SSCP) will be strongly emphasized in this course along with several of the CISSP CBK domains. (Certified Information Systems Security Professional - Common Body of Knowledge). (48-0)

NET-690 Emerging Network Access Technologies (4 s.h.)
Prerequisite: NET-223, CISCO Routers, or permission of the instructor. This introductory course to Wireless LANs focuses on the design, planning, implementation, operation and troubleshooting of Wireless LANs. It covers a comprehensive overview of technologies, security, and design best practices with particular emphasis on hands-on skills in the following areas: Wireless LAN setup and troubleshooting; 802.11a and 802.11b technologies, products and solutions; Site Surveys; Resilient WLAN design, installation and configuration; WLAN Security -- 802.1x, EAP, LEAP, WEP, SSID; Vendor interoperability strategies. (60-0) *Equivalent to 15-287, SRNE-205.*

NET-743 Fundamental Project Management (4 s.h.)
Fundamentals of Project Management defines a project and the role of projects in business. Students identify and demonstrate the basic knowledge areas of Project Management and the Project Management Framework. These knowledge areas focus on managing project components including: Integration, Scope, Time (scheduling), Cost, Quality, Human Resource, Communications, Risk, and Procurement. Fundamentals of Project Management clarifies the relationship between Project Management and other management disciplines including general management knowledge and practice, and application-area knowledge and practice. Students learn to apply the breakdown of project phases and processes and construct project plans that employ project phasing and knowledge areas. Students also learn to identify the aspects of project-based organizational systems and classify business organizations by type and project characteristics. Critical Path Method (CPM) project scheduling is learned and utilized to coordinate project planning, execution and analysis throughout a project life cycle. (60-0) *Equivalent to 15-290, ISTS-150.*

NET-782 Computer Users Support (3 s.h.)
Prerequisite: BCA-101, Introduction to Computers and Information Systems; NET-113, IT Essentials; or instructor approval. Introduces the concept of supporting personal computers as a career. Designed to help students target their customers and develop appropriate service skills. This course provides an introduction to end-user computing, computer user support, customer service skills, skills required for troubleshooting computer problems, common support problems, help desk operation, user support management, product evaluation strategies and standards, user needs analysis and assessment, installing end-user computer systems, training computer users, technical writing skills, and computer facilities management. (45-0) *Equivalent to 15-193, ISTS-230.*

PEA-100 Aerobics/Tae-Bo I (1 s.h.)
A one-hour lab class designed to increase the students' level of physical fitness and confidence through participating in three levels of Tae-Bo. Tae-Bo is an aerobic form of exercise using basic self-defense techniques of punching and kicking to develop cardiovascular strength, flexibility, and muscular endurance. The class is set up to be progressive with three levels of Tae-Bo included. The three levels are: a basic level, an intermediate level, and an advanced level of Tae-Bo. Class activity will follow the "Billy Blanks Instructional Tae-Bo" videotapes. Class will meet twice each week for one hour. The course is repeatable for up to four credits. (2-28) *Equivalent to PHYE-132, 60-108.*

PEA-116 Bowling I (1 s.h.)
A one-hour lab class designed to teach the basic skills and knowledge of bowling through participation in a two hour per week bowling class. Student will be instructed on basic bowling techniques and scoring. Student will participate in various bowling activities such as a class bowling league and other group and individual competition. Class will meet at Mystic Lanes in Mason City. Student is required to pay a one-time bowling fee of \$45. The course is repeatable for up to four credits. (2-28) *Equivalent to PHYE-131, 60-107.*

PEA-146 Physical Fitness I (1 s.h.)
A lecture course designed to teach the student about the importance of being physically fit. The course material will provide insight into various methods of testing physical fitness as well as identifying what good physical fitness is. The student will be able to assess his/her own level of physical fitness. (15-0) *Equivalent to PHYE-113, 60-113.*

PEA-147 Physical Fitness I Lab (1 s.h.)
A lab course designed to increase a person's interest of his/her own level of physical fitness. The course provides activities with which the student can improve his/her level of physical fitness in the areas of strength, flexibility, and endurance. The student will be required to participate in class activities twice a week. (0-30) *Equivalent to PHYE-114, 60-114.*

PEA-187 Weight Training I (1 s.h.)
A lab course designed to increase the student's awareness and appreciation of weight training and its effect on physical well being. The course provides a structured environment for the student to learn

proper lifting techniques and an awareness of the benefits associated with different types of lifts. The course is repeatable for up to four semester hours credit. (0-30) *Equivalent to PHYE-130, 60-102.*

PEA-190 Yoga/Stretching I (1 s.h.)

A lab course designed to increase the student's awareness and appreciation of yoga and its effect on physical and mental well being. The course provides a structured environment for the student to learn proper body alignment in the yoga poses and an awareness of the benefits associated with the different poses. This course is repeatable for up to 2 semester hours of credit. (0-30) *Equivalent to PHYE-133.*

PEC-110 Coaching Ethics Techniques & Theory (1 s.h.)

Guiding principles and techniques of coaching interscholastic athletics. Discussion of theory, ethics, and professional responsibilities as they relate to coaching interscholastic athletes. (20-0) *Equivalent to PHYE-150, 60-150.*

PEC-115 Athletic Development & Human Growth (1 s.h.)

A one-semester course with emphasis on human growth and development and relationship to physical activity, with special attention to children and adolescents. (15-0) *Equivalent to PHYE-153, 60-153.*

PEC-122 Introduction to Anatomy & Physiology for Coaching (1 s.h.)

An introduction to anatomy and physiology with stress on the relationship to athletic actions. This course is designed as an introductory course for prospective coaches with little or no background in anatomy and physiology. (15-0) *Equivalent to 60-152, PHYE-152.*

PEC-127 Care and Prevention of Athletic Injuries (2 s.h.)

Recommended: one semester course in anatomy and physiology. Introductory preparation in athletic training, injury, treatment techniques, taping, wrapping, etc. Preventative measures to reduce athletic injuries. Course may be used to fulfill partial requirement for Iowa Coaching Certification. (30-0) *Equivalent to PHYE-151, 60-118.*

PEC-166 Sports Officiating: Fall and Winter Sports (2 s.h.)

Guiding principles and standards: rules, mechanics, and procedures for competitive sports officiating. Students will work toward becoming a registered official in the Iowa Athletic Associations. Emphasis will be on football, volleyball, and boys' and girls' basketball officiating. Each student will gain actual officiating experience. (28-4) *Equivalent to PHYE-115, 60-115.*

PEC-168 Sports Officiating: Spring and Summer Sports (2 s.h.)

Prerequisite: PEC-166, Sports Officiating: Fall and Winter Sports. This course is a continuation of PEC-166. Attention directed toward the study of wrestling, track, baseball, and softball. (28-4) *Equivalent to PHYE-116, 60-116.*

PEH-140 First Aid (1 s.h.)

Lecture-type course designed to give the layperson adequate first aid knowledge and skills with emphasis on accident prevention and recognition and treatment of common medical emergencies. (15-0) *Equivalent to PHYE-117, 60-232.*

PEH-161 Introduction to Physical Education (2 s.h.)

Designed to provide career information concerning opportunities in physical education, coaching, and recreational activities. (30-0) *Equivalent to PHYE-101, 60-117.*

PEH-180 Rape Education & Self Defense (2 s.h.)

Rape Education and Self Defense is a course of study designed to introduce the participant to basic self-defense concepts and techniques, to heighten the participant's level of awareness and alertness in her environment, to provide participant with information about violent contexts, and to provide the participant with basic physical methods of self-defense. In general, this course cannot offer absolutes; however, the theory behind such a course rests in the concept that those armed with information and a few operational options stand a better chance of avoiding and, when avoidance fails, surviving violence. (30-0) *Equivalent to PHYE-110, 60-175.*

PEV-115 Varsity Baseball (1 s.h.)

Course may be repeated for a maximum of two credits. (40-160) *Equivalent to PHYE-120, 60-120.*

PEV-120 Varsity Basketball (1 s.h.)

Course may be repeated for a maximum of two credits. (40-160) *Equivalent to PHYE-121, 60-121.*

PEV-130 Varsity Cross Country (1 s.h.)

Course may be repeated for a maximum of two credits. (40-160) *Equivalent to PHYE-124, 60-124.*

PEV-133 Varsity Track and Field (1 s.h.)

Course may be repeated for a maximum of two credits. (40-160) *Equivalent to PHYE-134.*

PEV-135 Varsity Football (1 s.h.)

Course may be repeated for a maximum of two credits. (40-160) *Equivalent to PHYE-122, 60-122.*

PEV-140 Varsity Golf (1 s.h.)

Course may be repeated for a maximum of two credits. (10-60) *Equivalent to PHYE-123, 60-123.*

PEV-150 Varsity Soccer (1 s.h.)

Course may be repeated for a maximum of two credits. (40-100) *Equivalent to PHYE-129, 60-129.*

PEV-160 Varsity Softball (1 s.h.)

Course may be repeated for a maximum of two credits. (40-160) *Equivalent to PHYE-127, 60-127.*

PEV-170 Varsity Volleyball (1 s.h.)

Course may be repeated for a maximum of two credits. (40-100) *Equivalent to PHYE-128, 60-128.*

PHI-101 Introduction to Philosophy (3 s.h.)

Introduces the student to the study of philosophy and teaches skills of critical thinking. The course examines the meaning and value of philosophy; human nature and the self, axiology-ethics and values (In search of the Good Life); social philosophy; freedom; individualism; philosophy and art; epistemology-the nature of knowledge;

truth; philosophy and religion; the meaning of suffering and death; examination of decision making and self-discovery. (45-0) *Equivalent to PHIL-101, 80-210.*

PHI-105 Introduction to Ethics (3 s.h.)

This course is designed to develop objective thinking skills. The goal is to create a balance between moral principles when considering a variety of ethical issues. The emphasis will be on developing a moral stance that is workable in today's society. Issues include poverty, environment, animal rights, business, preferences in hiring, war, death penalty, abortion, euthanasia, parent-child relationships, sex, love, and marriage. (45-0) *Equivalent to PHIL-102, 80-212.*

PHS-125 Physical Science (4 s.h.)

Prerequisite: High school Algebra or equivalent. An introductory college level, one-semester course intended to meet general education and elementary education certification requirements. Uses the Powerful Ideas in Physical Science curriculum and includes the units on Light & Color, Electricity, and Heat & Conservation of Energy. (45-30) *Equivalent to 70-114, PHYS-101.*

PHS-142 Principles of Astronomy (3 s.h.)

An introductory level, one-semester course for the nonscience major. Topics include a brief history of astronomy, the physics behind astronomy, the solar system, stars, and galaxies. Computer-based and hands-on activities complement material in the text. (45-0) *Equivalent to 70-182, PHYS-105.*

PHY-106 Survey of Physics (4 s.h.)

Prerequisite: MAT-102, Intermediate Algebra, or equivalent. An introductory, one-term course covering measurement, motion, heat, waves, electricity, magnetism and atomic physics. (45-30) *Equivalent to 70-122, PHYS-110.*

PHY-162 College Physics I (4 s.h.)

Prerequisite: MATH-134, Trigonometry and Analytic Geometry, or equivalent. For students going into professional fields other than engineering. Covers mechanics, conservation laws, simple harmonic motion, waves, and fluids. (45-30) *Equivalent to 70-280, PHYS-120.*

PHY-172 College Physics II (4 s.h.)

Prerequisite: PHY-162, College Physics I; or equivalent algebra-based first semester physics course as approved by the instructor. A continuation of College Physics I, covering thermodynamics, electricity and magnetism, DC and AC circuits, and optics. (45-30) *Equivalent to 70-281, PHYS-121.*

PHY-212 Classical Physics I (5 s.h.)

Prerequisite: MAT-210, Calculus I or equivalent with a C or higher, concurrent enrollment in or completion of MAT-216, Calculus II or equivalent. Calculus-based course intended for engineers or physics majors. Covers Kinematics, dynamics, statics, conservation laws, rotational motion, simple harmonic motion, waves, and fluids. (60-30) *Equivalent to 70-282, PHYS-220.*

PHY-222 Classical Physics II (5 s.h.)

Prerequisite: PHY-212, Classical Physics I or equivalent; MAT-216, Calculus II or equivalent. Second of two-course sequence for

engineers or physics majors. Covers thermodynamics, electricity and magnetism, electric circuits, and optics. (60-30) *Equivalent to 70-283, PHYS-221.*

PHY-720 Career Physics (4 s.h.)

Prerequisite/Corequisite: MAT-770, Applied Math, and MAT-771, Applied Math II. An introduction to the physics of mechanical, fluid, electrical and thermal systems with emphasis on application in the technical careers. (45-30) *Equivalent to 96-150, PHYS-701.*

PNN-603 Practical Nursing I (4 s.h.)

Prerequisite/Corequisite: HSC-150, Body Structure and Function, ENG-105, Composition I. Orientation to nursing and the role of the practical nurse in the health community, history of nursing, ethical principles, legal nursing assessment, basic nursing skills, and practice of nursing skills in college laboratory. (45-30) *Equivalent to 94-101, LPNS-701.*

PNN-604 Practical Nursing II (13 s.h.)

Prerequisite: PNN-603, Practical Nursing I; HSC-150, Body Structure and Function; and ENG-105, Composition I. Prerequisite/Corequisite: PSY-111, Introduction to Psychology. A continuation of PNN-603, Practical Nursing I. Practical Nursing II utilizes the nursing process with emphasis on development of basic skills, nursing assessment, creating and maintaining the physical environment, physical and psychological supportive measures, basic scientific principles of therapeutic nursing interventions and documentation, introduction to pharmacology and the administration of medications, normal nutrition, and therapeutic diets. The student will be offered basic knowledge about the family and newborn. Includes growth and development through adolescence, as well as the effect of illness and hospitalizations on the child and family. Supervised practices in a college laboratory setting. Clinical experiences include long-term care nursing facilities, medical-surgical settings, birth center, a pediatric unit, and selected community agencies. (135-165) *Equivalent to LPNS-705.*

PNN-607 Practical Nursing III (13 s.h.)

Prerequisite: PNN-603, Practical Nursing I; PNN-604, Practical Nursing II; HSC-150, Body Structure and Function; ENG-105, Composition I, and PSY-111, Introduction to Psychology. Prerequisite/Corequisite: PSY-121, Developmental Psychology. Utilization of the nursing process to develop basic skills in providing nursing care for patients with common health problems associated with each body system. Continuation of pharmacology and nutrition, beginning management skills and responsibilities of a licensed practical nurse, trends in nursing, preparation for licensure, and employment. Supervised clinical experience in medical/surgical areas, and surgical patient follow-through, mental health, home care and nursing facilities. (105-270) *Equivalent to 94-110, LPNS-704.*

POL-111 American National Government (3 s.h.)

A survey of the American federal system of government including a description and analysis of the Constitution; the legislative, executive, and judicial branches of government; and the American political process. (45-0) *Equivalent to 80-120, POLS-101.*

POL-112 American State and Local Government (3 s.h.)

A survey of state and local governments in the United States including an analysis of federal-state relations; state constitutions; state

and local legislative, executive, and judicial systems; and major issues in state and local politics. (45-0) *Equivalent to 80-121, POLS-102.*

POL-121 International Relations (3 s.h.)

An introductory course in international relations which offers an analysis of the structure and processes of world politics. Topics covered include the study of foreign policies, a survey of major problems in contemporary world affairs, and an examination of selected global issues. (45-0) *Equivalent to 80-122, POLS-110.*

PSY-111 Introduction to Psychology (3 s.h.)

An introduction to the scientific study of behavior; a brief history of psychology as a science, and topics fundamental to human behavior including developmental issues, sensory abilities, cognitive performance, social and emotional factors in behavior, and abnormal behavior and therapies. (45-0) *Equivalent to 80-101, PSYC-101.*

PSY-121 Developmental Psychology (3 s.h.)

A study of the physical, mental, emotional, and social growth of the person from conception through later adulthood. Class lecture and discussion will reflect on such issues as attachment, play behavior, parenting styles and discipline, education, mate selection, mid-life events, and later adulthood experiences. (45-0) *Equivalent to PSYC-110, 80-230.*

PSY-223 Child and Adolescent Psychology (3 s.h.)

Prerequisite: PSY-111, Introduction to Psychology, and/or PSY-121, Developmental Psychology. Course covers information relevant to the development of humans from the prenatal stages through adolescence. Topics covered include the developing fetus, as well as physical, social, and psychological development in infancy, toddlerhood, childhood, and adolescence. (45-0) *Equivalent to 80-104, PSYC-204.*

PSY-281 Educational Psychology (3 s.h.)

Educational psychology applies the accumulated knowledge of human cognition and behavior from the field of psychology to the theory and practice of teaching. This course will be taught from a research perspective to facilitate student comprehension of teaching theories and how they can be applied in the classroom. (45-0) *Equivalent to 80-103, PSYC-205.*

PTA-100 PTA Terminology (1 s.h.)

Prerequisite: None. Includes an orientation to the vocabulary of medicine with emphasis on terminology related to physical therapy. (15-0) *Equivalent to 90-145, PTAS-703.*

PTA-101 Introduction to PTA (2 s.h.)

Prerequisite: None. This course provides an overview of the physical therapy profession and the role of the physical therapist assistant, including legal and ethical aspects of practice. Students will be introduced to the patient care process, be instructed in documentation, and given much opportunity to work on their communication skills. Includes an introduction to the Clinical Education component of the program. (30-0) *Equivalent to 90-149, PTAS-701.*

PTA-110 Fundamentals for PTA (3 s.h.)

Prerequisite: None. This course provides a foundation in physical therapy interventions by covering techniques that the PTA can utilize to monitor patients as well as basic treatment interventions such as range of motion and transfers. Purposes of all skills, proper techniques, and safety considerations will be addressed. Students will have lab time to apply, practice, and demonstrate skills they are taught. (30-30) *Equivalent to 90-144, PTAS-702.*

PTA-120 Kinesiology (3 s.h.)

Prerequisite: BIO-206, Anatomy and Physiology I (with lab). Provides a basic understanding of normal human body movement as related to skeletal, articular, neurological, and muscular systems. Levers, torques, center of gravity, base of support, and their relationship to balance, posture, and movement will be addressed. The student will learn anatomical palpations and the basics of human gait. (30-30) *Equivalent to 70-149, BIOL-222.*

PTA-141 Developmental Processes (3 s.h.)

Prerequisite: PTA-110, Fundamentals for PTA, and PTA-300, Introduction to the Clinic. Presents normal physical, cognitive, social, and emotional developmental processes which affect an individual throughout the life span. Emphasis on integration of all aspects of human development and additional focus on application of physical processes to the field of physical therapy. (45-0) *Equivalent to 90-146, PTAS-711.*

PTA-150 Pathophysiology (3 s.h.)

Prerequisite: HSC-120, Medical Terminology I or PTA-100, PTA Terminology; BIO-206, Anatomy and Physiology I (with lab); and BIO-207, Anatomy and Physiology II (with lab). Presents clinical disorders and diseases commonly treated in physical therapy. Pathology, etiology, diagnosis, signs, symptoms, treatment, prognosis and implications for rehabilitation will be covered. (45-0) *Equivalent to 90-147, PTAS-801.*

PTA-162 PTA Assessment Procedures (3 s.h.)

Prerequisites: HSC-120, Medical Terminology I or PTA-100, PTA Terminology; PTA-110, Fundamentals for PTA; and PTA-120, Kinesiology. This course provides an in-depth look at various assessment skills performed and utilized by the PTA. Special emphasis will be on theory, application procedures, and documentation of findings when utilizing goniometry and manual muscle testing in the clinic setting. Students will have an opportunity in the lab portion to apply, practice, and demonstrate techniques they are taught. (30-30) *Equivalent to 90-150, PTAS-802.*

PTA-190 Physical Agents (4 s.h.)

Prerequisite: PTA-110, Fundamentals for PTA. Prepares the student to use modalities for patient treatment. Mechanisms of action, indications, precautions, contraindications and treatment procedures will be covered for the following: superficial heat, deep heat, electromagnetic radiation, cold, external compression, massage, biofeedback, whirlpool, wound care, traction, and electrical stimulation. Pain rating and skin assessment procedures will also be included. Students will practice applications in lab. (37.5-45) *Equivalent to 90-159, PTAS-712.*

PTA-210 Orthopedics (3 s.h.)
Prerequisite: BIO-206, Anatomy and Physiology I (with lab), and BIO-207, Anatomy and Physiology II (with lab), and PTA-120, Kinesiology. Principles of fracture and soft tissue healing are applied to musculoskeletal injuries and disorders. Injuries, disorders, and function specific to each joint are covered. Physical therapy treatment for specific joint injuries are presented. Students will practice techniques in lab. (30-30) *Equivalent to 90-213, PTAS-811.*

PTA-231 Therapeutic Exercise for PTA (3 s.h.)
Prerequisite: PTA-110, Fundamentals for PTA, and PTA-120, Kinesiology. This course studies the physiological effect of exercise on the musculoskeletal, cardiovascular, and pulmonary systems. Physical therapy treatment techniques to improve strength, flexibility, cardiovascular and pulmonary function are presented. Treatment programs for specific diagnoses such as diabetes, pregnancy, and amputation are addressed. Students will practice techniques in lab. (30-30) *Equivalent to 90-212, PTAS-810.*

PTA-241 Neurology for PTA (4 s.h.)
Prerequisites: BIO-206, Anatomy and Physiology I (with lab); BIO-207, Anatomy and Physiology II (with lab); PTA-150, Pathophysiology; PTA-141, Developmental Processes. This course will provide information, discussion, and treatment considerations with neurologically based diagnoses. Emphasis will be on exploring clinical manifestations and treatment considerations with all the disorders with special emphasis on cardiovascular accidents. Typical treatment techniques, exercise programs, and treatment progression will be applied to lab scenarios with a variety of neurological diagnoses. Students will have an opportunity in the lab portion to apply, practice, and demonstrate techniques they are taught. (45-30) *Equivalent to 90-214, PTAS-812.*

PTA-250 PTA Career Essentials (2 s.h.)
Prerequisite: All previous PTA technical courses. Includes the basic principles of management including levels of authority and responsibility, supervisory process, performance appraisals, and policies and procedures. The process of quality assurance and chart audits are discussed. Varieties of reimbursement systems and their impact on health care delivery are discussed. Resume writing, interviewing, and employability skills will be covered. Ethical and legal issues in the practice of physical therapy will also be examined. (30-0) *Equivalent to 90-215, PTAS-813.*

PTA-280 PTA Seminar (1 s.h.)
Prerequisite: All PTA courses. This course will focus on the role of the PTA in helping patients achieve optimal mobility and become as independent as possible with functional activities. Lecture and discussions will incorporate students' experiences from PTA Clinic III and PTA Clinic IV so that each student has time to process and consider these learning experiences. All aspects of patient care will be addressed and case study presentations will be included to assist with problem-solving skills. (15-0) *Equivalent to 90-217, PTAS-823.*

PTA-300 Intro to Clinic (1 s.h.)
Prerequisite: PTA-101, Introduction to PTA; and PTA-110, Fundamentals for PTA. Forty-hour clinical occurs one week prior to start of second term. Skills, knowledge, and attitudes learned in PTA Terminology, Introduction to PTA, and Fundamentals for PTA

will be applied to direct patient care in selected clinical settings. Includes application/integration of PTA course work with the goal of student providing quality care with uncomplicated patients and a high degree of supervision and guidance. This course has been designated as a pass/no pass course. (0-40) *Equivalent to 90-136, PTAS-710.*

PTA-301 PTA Clinic I (2 s.h.)
Prerequisite: PTA-101, Introduction to PTA; PTA-110, Fundamentals for PTA; PTA-120, Kinesiology; PTA-141, Developmental Processes; and PTA-190, Physical Agents. Eighty-hour clinical occurs two weeks beyond the end of the second term. Skills, knowledge, and attitudes learned in Developmental Processes, Kinesiology, and Physical Agents will be applied to direct patient care in selected clinical settings. Includes application/integration of current and previous PTA course work with the goal of student providing quality care with uncomplicated to complex patients and a degree of supervision and guidance that will vary with the complexity of the patient or the environment. This course has been designated as a pass/no pass course. (0-80) *Equivalent to 90-137, PTAS-713.*

PTA-302 PTA Clinic II (2 s.h.)
Prerequisite: HSC-120, Medical Terminology I or PTA-100, PTA Terminology; PTA-101, Introduction to PTA; PTA-110, Fundamentals for PTA; PTA-120, Kinesiology; PTA-141, Developmental Processes; PTA-190, Physical Agents; PTA-150, Pathophysiology; and PTA-162, PTA Assessment Procedures. Eighty-hour clinical occurs in the final week of the third term and extends one week after the term ends. Skills, knowledge, and attitudes learned in Pathophysiology and PTA Assessment Procedures will be applied to direct patient care in selected clinical settings. Includes application/integration of current and previous PTA course work, with the goal of the student providing quality care with uncomplicated to complex patients and a degree of supervision/guidance that will vary with the complexity of the patient or the environment. This course has been designated as a pass/no pass course. (0-80) *Equivalent to 90-138, PTAS-803.*

PTA-400 PTA Clinic III (7 s.h.)
Prerequisite: HSC-120, Medical Terminology I, or PTA-100, PTA Terminology; PTA-101, Introduction to PTA; PTA-110, Fundamentals for PTA; PTA-120, Kinesiology; PTA-141, Developmental Processes; PTA-190, Physical Agents; PTA-150, Pathophysiology; PTA-162, PTA Assessment Procedures; PTA-302, PTA Clinic II. Eight-week, full-time clinical experience. Skills, knowledge, and attitudes learned in Neurology, Orthopedics, Therapeutic Exercise and Career Essentials will be applied to direct patient care in selected clinical settings. Includes application and integration of all PTA course work with goal of student consistently and efficiently providing quality care with uncomplicated to complex patients and a moderate to low degree of supervision/guidance except when addressing new and highly complex situations. This course has been designated as a pass/no pass course. (0-320) *Equivalent to 90-218, PTAS-821.*

PTA-401 PTA Clinic IV (5 s.h.)
Prerequisite: HSC-120, Medical Terminology I, or PTA-100, PTA Terminology; PTA-101, Introduction to PTA; PTA-110, Fundamentals for PTA; PTA-120, Kinesiology; PTA-141, Developmental Processes; PTA-190, Physical Agents; PTA-150, Pathophysiology; PTA-162, PTA Assessment Procedures; PTA-302, PTA Clinic II; PTA-400,

PTA Clinic III. Six-week, full-time clinical experience. Skills, knowledge, and attitudes learned in all PTA course work will be applied to direct patient care in selected clinical settings. Includes application and integration of all PTA course work with the goal of the student consistently and efficiently providing quality care with uncomplicated to complex patients. The student usually needs no further guidance or supervision except when addressing new and highly complex situations. This course has been designated as a pass/no pass course. (0-240) *Equivalent to 90-219, PTAS-822.*

RDG-125 College Reading Strategies (3 s.h.)

Designed to help students become more efficient and effective in reading college textbooks, required materials, leisure articles, and books. Course adapts to the style and needs of each individual to improve vocabulary, comprehension, rate, and study skills. (45-0) *Equivalent to ENGL-120, 30-120.*

RDG-161 Speed Reading (1 s.h.)

Are you struggling to keep up with a flood of e-mail, articles, reports, books, and other printed matter? Save yourself oodles of time by learning to read faster and with better comprehension from acclaimed speed reading expert, Dr. Merrill Ream. This course is a complete speed reading experience. Topics are presented in a logical progression with plenty of time to help you master the skills and techniques you'll need for lasting proficiency as a speed reader. (5-20) *Equivalent to 89-146, SDEV-251.*

SDV-065 Personal Management (3 s.h.)

Prerequisite: Consent of instructor. This Enrich course will examine concerns faced by students as members of modern society. It is designed to assist students in making sound decisions concerning physical, mental, and financial health, and to use nonworking hours in a creative way. Critical thinking skills will be emphasized as students analyze written documents, including those financial, legal, and medical. This course has been designated as a pass/no pass course. (45-0) Instructor's consent required. *Equivalent to ENRI-049, 89-030.*

SDV-066 Career Decisions (3 s.h.)

Prerequisite: Consent of instructor. This Enrich course is designed to assist the student in examining a variety of careers, looking at educational, physical, and mental requirements. Students will develop a personal profile and will match career areas to their personal interests and strengths. This course has been designated as a pass/no pass course. (45-0) Instructor's consent required. *Equivalent to ENRI-051, 89-041.*

SDV-068 Skills for Job Seekers (3 s.h.)

Prerequisite: Consent of instructor, and SDV-066, Career Decisions. This Enrich course is designed to assist the student in structuring a job search. Written materials will include applications, resumes, and cover letters. Interviewing skills will be developed. Job-keeping skills will be emphasized. This course has been designated as a pass/no pass course. (45-0) Instructor's consent required. *Equivalent to ENRI-050, 89-040.*

SDV-100 Orientation to College (0 s.h.)

Prerequisite: First-time, full-time college students [transfer students with less than 12 hours credit]. Areas included in this course are

campus involvement, services available to students, alcohol awareness, career awareness, and personality types/study behaviors. (5-0) *Equivalent to 89-140, SDEV-100.*

SDV-111 Success Seminar (1 s.h.)

Prerequisite/Corequisite: For participants in the Student Support Services Project. Success Seminar (Action for College Education) is a motivational behavioral modification program. The course cultivates a positive attitude and gives students the motivation to help themselves in a college setting. The goal is to instill confidence, eagerness, and enthusiasm toward obtaining a college degree. (15-0) *Equivalent to SDEV-101, 89-153.*

SDV-113 Strategies for Academic Success (2 s.h.)

Designed primarily for freshmen. The focus is assisting in the development of effective study techniques and comprehensive skills necessary for independent learning and academic success. (30-0) *Equivalent to 89-151, SDEV-105.*

SDV-120 ICBE (1 s.h.)

Prerequisite: Students must have the consent of the instructor. The introductory and required beginning course for the Individualized Competency Based Education program (ICBE). It is designed to teach personal educational assessment and evaluation, goal setting, degree pact writing and individualized educational planning. (15-0) *Equivalent to 89-120, SDEV-125.*

SDV-135 Job Seeking Skills (1 s.h.)

Develop skills necessary to enter the job market and experience long-term career growth. Students learn basic job seeking techniques, job keeping skills, and strategies for continued growth. (15-0) *Equivalent to 89-150, SDEV-110.*

SDV-160 Career Decision Making (2 s.h.)

Introduction to a structured career decision-making process, including self-awareness, career and educational information, economic information, and related activities/projects. (30-0) *Equivalent to 89-152, SDEV-106.*

SDV-177 Listen to Your Heart and Success Will Follow (1 s.h.)

Intelligently facilitated and fast-paced, Listen to Your Heart and Success Will Follow will help you enjoy the rewards that come from doing what really makes you happy! Your instructor and a caring community of students will help you begin designing a life that really works for you. With a complete understanding of your own interests, values, needs and abilities, you'll learn how you can use work to express yourself and share your interests and talents. Your every day will be filled with joy and inspiration, and a greater depth of meaning will be added to everything you do. This course program is skillfully crafted to weave experiential learning with the conceptual presentation, giving you time to experience, understand, and implement each new strategy as it is introduced. (5-20) *Equivalent to 89-145, SDEV-250.*

SDV-195 Student Senate (1 s.h.)

Students will develop increased organizational and leadership skills through involvement in planning campus activities and entertainment, participating in community service projects, organizing community college advocacy efforts and helping to get students involved at North Iowa Area Community College. Additional leadership opportunities may include attending a conference, becoming a

Student Senate representative on a student or college committee, or assisting with Fine Arts events. Course may be repeatable for a maximum of four credits. (0-30) *Equivalent to 80-125, POLS-125.*

SDV-210A-E Cooperative Education Internship (1-5 s.h.)

Practical training on the job under the cooperative supervision of the college and work supervisor. Designed primarily for the college transfer students to provide an experience that: (1) is directly related to their college program and career objectives; or (2) will help them test out career interest and/or discover new career possibilities. Credit is determined on the basis of one semester of credit for each 60 hours of approved employment to be completed in a term. Appropriateness of learning objectives is an essential factor in the approval process. 1-5 credits per semester, 12 credits maximum. (0-60 to 300) Instructor's consent required. *Equivalent to 89-100, SDEV-120A-E.*

SDV-287 PTK Leadership Development Studies (2 s.h.)

This course will help students develop the necessary skills to be an effective leader. Topics covered include developing a leadership philosophy, articulating a vision, decision making, time management, team building, empowering and delegating, initiating change, managing conflict, and ethics. Class time will primarily consist of discussion and small-group activities. (15-30) *Equivalent to 80-127, SDEV-111.*

SDV-901B Special Topics Enrich (2 s.h.)

Prerequisite: Consent of instructor/college recommendation. Fall semester: Fall semester: In this Enrich course, students focus on improved decision making in work and personal situations. Emphasis is placed on civic responsibility and the importance of being an informed citizen. Spring semester: This Enrich course focuses on the student in a global society. Students work to develop critical thinking skills which will assist them to look past biases and prejudices in order to become responsible citizens. The class stresses both written and verbal communication skills. (30-0) *Equivalent to 89-299, ENRI-900B.*

SOC-110 Introduction to Sociology (3 s.h.)

An introductory course in Sociology. A study of the basic principles of group behavior, identifying the main forces that hold groups together and weaken them. The study of society, family, and group life, social organizations, culture, population structure and change, community structure both urban and rural. (45-0) *Equivalent to SOCS-101, 80-110.*

SOC-115 Social Problems (3 s.h.)

SOC-110, Introduction to Sociology, is strongly recommended. Introduction to the study of contemporary social problems. The course examines how social problems are identified, explores underlying conditions and causes of social problems, and considers possible solutions and policy implications. Emphasis is on sociological and critical thinking frameworks. Topics of exploration include: mental illness, substance abuse, crime, prejudice and discrimination, prostitution, poverty, and more. (45-0) *Equivalent to 80-111, SOCS-103.*

SOC-120 Marriage and Family (3 s.h.)

A survey of the family as a social unit in the modern American culture. A study is made regarding the creation of the American

family from various cultures as well as the problems the family is subjected to such as sex relations, social roles, communication, finance, and divorce. (45-0) *Equivalent to 80-112, SOCS-112.*

SOC-150 Introduction to Human Services (3 s.h.)

This course is designed to familiarize the student with the human services arena. Various employment opportunities are explored, as well as ethical, legal, political, and economic forces. (45-0) *Equivalent to 80-114, SOCS-100.*

SOC-215 Prime for Life: Substance Abuse (1 s.h.)

Requirements: Students must be enrolled prior to the start of the first night of class. No late enrollments. Attendance is mandatory. Each lesson builds on the other, therefore, all 6 sessions must be attended or the student cannot satisfactorily complete the course. Prime for Life risk reduction program is a research-based curriculum that focuses on the reduction of problems associated with high risk drinking. The ultimate goal is to impact drinking choices by using a collection of strategies designed to facilitate behavior change. The program integrates knowledge from over 1,200 scientific studies from biological, psychological, and social research that supports the content of the program. Students will gain an increased knowledge regarding the subject matter, as well as gain personal knowledge about their own drinking patterns through a self reflection process. Knowledge of the subject matter and self knowledge are both critical prerequisites for those who are considering employment in the human services fields. Open to all students. Required for the Human Services certificate. (15-0)

SPC-111 Public Speaking (2 s.h.)

Public speaking as an intellectual tool for use in argumentation and persuasion in a democratic society. (Offered each term.) (30-0) *Equivalent to SPCH-101, 85-101.*

SPC-131 Group Communication (2 s.h.)

Principles and techniques of group discussion methods and procedures. (30-0) *Equivalent to SPCH-102, 85-105.*

WEL-110 Welding Blueprint Reading (2 s.h.)

Prerequisite: None. This course provides instruction in the fundamentals of reading and interpreting blueprints. A student learns to interpret and apply welding symbols along with identifying proper assembly procedures. (30-0) *Equivalent to WELD-701, 98-110.*

WEL-112 Welding Blueprint Reading/Advanced (2 s.h.)

Prerequisite: WEL-110, Welding Blueprint Reading. This course provides instruction in the reading and interpreting of blueprints. The course covers the applications of welding symbols, dimensions, and assembly procedures. (15-30) *Equivalent to WELD-702, 98-135.*

WEL-138 Oxyacetylene Welding/ Gas Tungsten Arc Welding (3 s.h.)

Fusion joining of mild steel and cutting processes. The basic principles of gas tungsten arc welding including AC and DC applications. Selection of proper torch tip sizes, filler rods, angles, and travel speeds for OAW processes. The set-up and adjustment of gas tungsten arc welding equipment, along with practical experience using both ferrous and nonferrous metals. (15-90) *Equivalent to WELD-703, 98-190.*

WEL-153 Shield Metal & Gas Metal Arc Welding (SMAW and GMAW) (3 s.h.)

Flat and horizontal shielded arc, vertical, and overhead shielded arc welding. The operation of AC and DC transformer arc welders and motor-driven DC welders. The effects of amperage, polarity, and characteristics of various electrodes. Butt, fillet, corner, and lap welds are made in various positions. Application of techniques required for equipment repair. (15-90) *Equivalent to WELD-704, 98-191.*

WEL-332 Welding (2 s.h.)

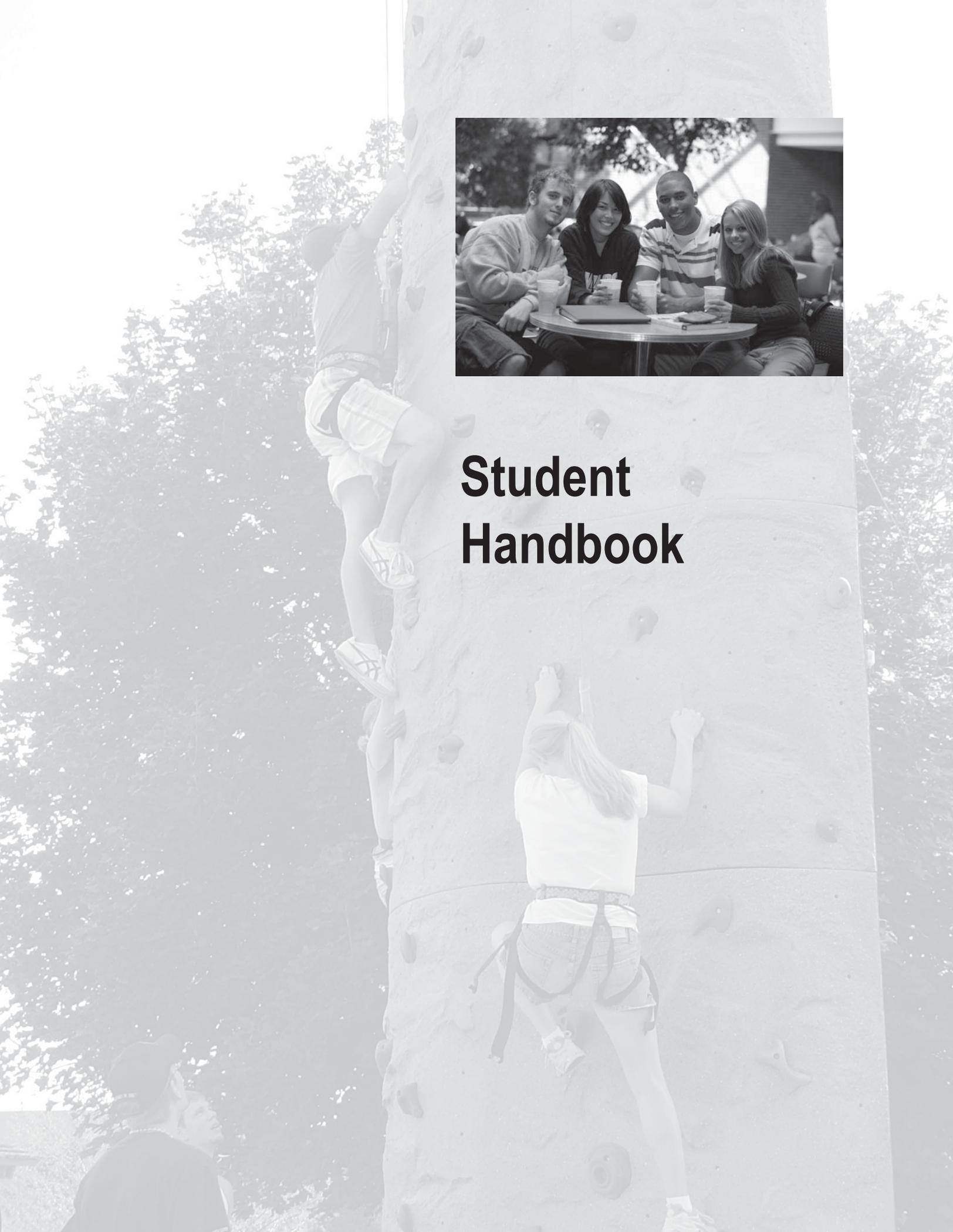
An introductory course teaching basic skills in the areas of shielded metal arc welding, gas metal arc welding, and oxyacetylene welding, cutting and brazing. The basic fundamentals of each process are covered. Safe welding practices are taught. The course provides skill application in all positions, on mild steel with single and multi-pass welds with backing strips. (15-30) *Equivalent to 92-176, WELD-710.*

WEL-334 Trade and Industry Welding (2 s.h.)

This is a basic arc/oxy-fuel welding and cutting course. The students will perform introductory skills in SMAW, GTAW, and GMAW welding, oxy-acetylene welding, and oxy-fuel cutting. The students learn safety procedures relating to welding subjects and general shop safety. (15-30) *Equivalent to 96-169, INDU-710.*



Student Handbook



STUDENT HANDBOOK

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ACADEMIC/DISCIPLINARY POLICIES

Academic Probation/Suspension

Probation: A student who does not attain at least a 1.50 cumulative grade point average will be placed on institutional academic probation by the Registrar. Unless specific corrections are made, probation may be followed by suspension.

Suspension: A written notice to a student of denial for further participation and/or registration in the College until a specified future date.

Developmental courses are not used in calculating the cumulative grade point average for Academic Probation/Suspension.

A student not meeting the minimum standard (1.5 GPA) for two consecutive terms may be notified by the Registrar that he/she is suspended for a 16-week term unless a successful appeal is filed with the Vice President for Student Services or designee.

Any student placed on probation or suspension is highly encouraged to visit with the NIACC counseling staff for assistance.

Fresh Start

A. Please read the following sections carefully before deciding if a "Fresh Start" is right for you at this time.

1. The "Fresh Start" program is intended for students who change to a new program of study after receiving unsatisfactory grades in a previous program or for students who have performed poorly at NIACC. It allows the student cumulative grade point average (GPA) to be recomputed.
2. The "Fresh Start" is a one-time-only option. If a student experiences difficulty in a new program or subsequent semester, he/she may not apply for a second "Fresh Start."
3. The student must be currently enrolled in credit classes at North Iowa Area Community College pursuing a degree, diploma, or certificate, and have successfully completed a minimum of 12 credits with a term grade point average of 2.00 or better and a 2.00 cumulative grade point average excluding the Fresh Start semester(s).
4. "Fresh Start" may span a maximum of two consecutive semesters of college credit courses. Students may not choose specific classes to be waived. **All courses** within the requested fresh start term would be amended, if approved.
5. Courses are not removed from the transcript by a "Fresh Start." If a "Fresh Start" is approved, all courses in the approved term(s) will receive the grade symbol "O" for grade requital. Grades earned for the term(s) specified in the request will not be included in the computation of the student's cumulative grade point average.

6. Students may petition for a "Fresh Start" for courses taken at least three years prior to the time of appeal.
7. Since the "Fresh Start" program is a North Iowa Area Community College policy only, it will generally not affect decisions made by grantors of financial aid or athletic eligibility or transfer institutions. Such outside agencies may still consider the complete transcript, not just the "Fresh Start."
 - B. If you decide that you wish to pursue a "Fresh Start" in view of the previous information, or if you are not yet certain if this is the right option for you at this time, you may request a transcript from the Records Office and make an appointment to meet with a counselor or advisor to discuss this matter.
 - C. When you have obtained your transcript and written your letter of appeal addressing your previous situation and how that situation has changed so that you will be more successful academically, meet with the counselor or advisor. He/she will be able to look at your records and your letter to go over the process with you to help you decide if you should proceed with the "Fresh Start." If you decide not to proceed, no further action is required.
 - D. If you decide to proceed with the "Fresh Start" petition, the counselor or advisor should complete Section II of the petition. The counselor should sign and date this section.
 - E. The complete petition should be sent to:

Registrar
North Iowa Area Community College
500 College Drive
Mason City, IA 50401
 - F. The Records Office will proceed as follows when the decision is received:
 1. Amend the student's academic record based on the semester(s) indicated by the decision. The grades for the appropriate semester are amended to an "O" meaning grade requital which automatically is not calculated in degree audit.
 2. Add the comment line, "Fresh Start Term," after the appropriate semester(s) on the academic transcript.
 3. Retain documentation of the decision in the Records Office for at least five years.
 - G. The student has the right to request reconsideration of the decision. Such an appeal must be made in writing to the Vice President for Student Services within thirty (30) days after the decision was communicated to the student. If the student wishes to appear in person before a Committee to support his/her request, the student should indicate that fact in the letter.

Grade Appeal Process

Introduction

The following procedures are available for review of alleged capricious grading, and not for review of the judgement of an instructor

in assessing the quality of a student's work. Capricious grading, as the term is used, is defined as one or more of the following:

1. the assignment of a grade to a particular student on some basis other than the announced standards for the course;
2. the assignment of a grade to a particular student by more exacting or demanding standards than were applied to other students in that course;
3. the assignment of a grade by a substantial departure from the instructor's standards announced during the first part of the term.

The assessment of the quality of a student's academic performance is one of the major professional responsibilities of College faculty members and is solely and properly their responsibility. It is essential for the standards of the academic programs at North Iowa Area Community College and the integrity of the certificates, diplomas, and degrees conferred by this College that the professional judgments of faculty members not be subject to pressures or other interference from any source.

It is necessary, however, that any semester grade be based on evidence of the student's performance in a course, that the student have access to the evidence, that the instructor be willing to explain and interpret the evidence to the student, and that a grade be determined in accordance with announced guidelines. These guidelines should be announced in each class within the first quarter of the semester term.

At any time, a student may seek the assistance of a counselor from Student Services regarding the procedure in appealing alleged capricious grades or the merits of a particular case.

Appeal Procedures

A student who believes a semester grade is capricious may seek clarification and, where appropriate, readdress as follows:

1. The student shall confer with the instructor, informing the instructor of questions concerning the grade, and seeking to understand fully the grounds and procedures the instructor has used in determining the grade. The aim of such a conference is to reach mutual understanding about the grade, the process by which it was assigned, and to correct errors, if any, in the grade.
2. If, after consultation with the instructor, the student believes that a grade is capricious, the student shall confer with the division chair, who shall consult and advise with both the instructor and student separately or together, in an effort to reach an understanding and resolution of the matter.
3. If steps one or two do not resolve the problem, the student may submit a petition in writing to the Academic Appeals Committee. This petition must be submitted through the Vice President for Student Services not later than the end of the fourth week of the following semester, excluding the summer terms. For students involved in programs where the grade will not allow progression, a revised time plan may be developed so the appeal can be heard prior to the next semester.

4. On the basis of a consideration of the student's petition, the instructor's response, and interviews by the chairperson of the Academic Appeals Committee with the student and the instructor, the Academic Appeals Committee shall conduct an inquiry which may include a meeting with the student and the instructor separately or together and ascertain and consider relevant facts. The Committee should make one of the following decisions:

- a. That the grade was not assigned capriciously and shall stand as assigned.
- b. That the grade may have been assigned capriciously and merits further consideration.

The committee shall, as a result of its consideration, recommend an appropriate grade.

5. The decision of the Academic Appeals Committee will be communicated to the student by the chairperson of the committee.
6. If the student does not accept the decision of the Academic Appeals Committee, the appeal will then be forwarded to the Vice President for Academic Affairs for review. The Vice President shall review the case and shall make one of the following decisions:
 - a. Acceptance of the Academic Appeals Committee decision.
 - b. Request for the Academic Appeals Committee to reconsider its decision.

The Vice President for Academic Affairs shall review the case and consult with the instructor and the student either individually or collectively. On the basis of the review and the consultation, the Vice President for Academic Affairs (a) may direct the instructor to make the grade change and that decision shall be final, or (b) may request the Academic Appeals Committee to reconsider its decision. After a reconsideration by the Committee, its recommendations regarding the student's grade is final. Should the reconsideration of the Academic Appeals Committee involve a change in grade, the Vice President for Academic Affairs shall direct the instructor to make the grade change. In the event the instructor declines to make the grade change, then the Vice President for Academic Affairs shall authorize the Registrar to make the grade change, and such a decision shall be final.

7. If the student does not accept the decision of the Vice President for Academic Affairs, the student may choose to appeal to the President of the College.

NOTE: At all points of decision, the student, the instructor, the division chair, and any parties involved shall be notified promptly and no later than one week after each decision has been reached.

Composition of Academic Appeals Committee

The committee shall consist of two full-time faculty members, one division chair, one Student Services staff member, and two full-time students selected by the College's Student Senate. The committee will be chaired by the Vice President for Student Services.

Instructor Complaint Policy

Students who have a complaint about an instructor should first talk to that instructor to express his/her concern and seek a resolution to the complaint. If the complaint is not resolved to the student's satisfaction (or if the student does not feel comfortable talking to the instructor), he/she may contact the program leader (or department chair if no program chair exists). If the complaint is not resolved at this level, the Vice President for Student Services should be consulted, who will provide confidential counsel on how to resolve the complaint, and/or identify the proper steps to follow should the student choose to file a formal written complaint. Depending on the nature of the written complaint, it will be handled either by the Vice President for Student Services or the Vice President for Academic Affairs.

Registered Sex Offenders

Any student/staff who wishes to know the names of enrolled students who may be on the Iowa sex offender's registry should contact the Cerro Gordo County sheriff, or refer to the web site at www.iowasexoffender.com.

Sexual Harassment Policy

Introduction

As an educational institution, the College serves as a model agency in the community. Sexual harassment subverts the mission of the College, threatens the well-being of students, faculty and staff, and will not be tolerated.

Staff in positions of authority need to be sensitive to the potential for conflicts of interest in personal relationships with students or subordinate employees. When significant disparities in age or authority are present between two individuals, questions about professional responsibility and the mutuality of consent to a personal relationship may well arise.

Definition of Sexual Harassment

The Equal Employment Opportunity Commission characterizes sexual harassment as "unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature." Such behavior is illegal when:

- A. Submission to such conduct is made either explicitly or implicitly a term of condition of status as a student or employee;
- B. Submission to or rejection of such conduct by an individual is used as the basis for decisions affecting such individual's employment or academic progress; or
- C. Such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment.

Sexual harassment can also take place between peers. Anytime questionable behavior takes place, whether during work, class, or other college functions, it should be reported.

Sexual harassment takes many forms, for example:

- repeated and unwanted staring, comments, or propositions of a sexual nature
- subtle pressure for sexual activity
- sexist remarks about a person's clothing, body, or sexual activities
- unnecessary touching, patting, hugging, or brushing against a person's body
- direct or implied threats that submission to sexual advances will be a condition of employment, work status, grades, or letters of recommendation
- physical assault

Policy

A. Because staff and students at North Iowa Area Community College have a right to be free from sexual harassment by colleagues, supervisors, or instructors, the College does not condone actions or words which a reasonable person would regard as sexually harassing or coercive. This means that the following behaviors will not be tolerated:

1. Abusing the dignity of an employee or student through insulting or degrading sexual remarks or conduct;
2. Threats, demands, or suggestions that an employee's work status or a student's academic progress is contingent upon his/her toleration of or acquiescence to sexual advances.

B. The relationship between faculty and students is central to the mission of the College. It is essential to establish that the standard of expected conduct in that relationship goes beyond the normal description against sexual harassment. What might appear to be consensual, even to the parties involved, may in fact not be so. Recent court cases tend to support this view.

Faculty members exercise power over students, whether in giving them praise or criticism, evaluating them, making recommendations for their further studies or their future employment, or conferring any other benefits on them.

Therefore, the College will view it as unethical and inappropriate if faculty members engage in amorous relations with students enrolled in their classes or subject to their supervision, even when both parties appear to have consented to the relationship. Exceptions might be previous and ongoing relationships, such as husband and wife.

C. Education efforts are essential to the establishment of a campus environment that is as free as possible of sexual harassment and in which highest standards of conduct in consensual relationships are observed. There are at least four goals to be achieved through education:

1. Ensuring that all victims (and potential victims) are aware of their rights.
2. Notifying individuals of conduct that is prohibited.
3. Informing administrators about the proper way to address complaints of violations of this policy.
4. Helping educate the insensitive about the problems this policy addresses.

Courses of Action

- A. Students who feel that they have been the subjects of such harassment should advise the Vice President for Student Services who will investigate the complaint under the Student Code of Conduct.
- B. Staff members should advise their immediate supervisor, the Director of Human Resources, or the Vice President for Administrative Services.
- C. When informed or made aware of a possible harassment situation, the President will conduct an investigation utilizing the procedures outlined in the guidelines for "Handling Complaints Regarding Employees."

Student Conduct Code

Students are expected to conduct themselves in a responsible manner. Students who enroll accept our policies, regulations, and operational procedures. Student behavior, which after due process is found to be disruptive to classes or to destroy the rights of others or property, may result in disciplinary probation or suspension.

I. Statement of General Policy and Definitions

It is expected that each student will obey Federal, State, and local laws; will show respect for properly constituted authority; and will exhibit and maintain integrity and honor in all manners related to the college.

Definitions: In this code, unless the context otherwise requires:

- a. "Board" means the NIACC Board of Directors.
- b. "Class day" means a day on which classes are regularly scheduled.
- c. "College property" or "College facilities" means property, real or personal, owned, leased, controlled, or managed by the college.
- d. "Complaint" is a written statement which identifies an alleged violation and which sets forth the facts which constitute the violation. A complaint shall be prepared by the Vice President for Student Services and shall include a summary of the expected testimony of each witness in support of the allegation.
- e. "Vice President" means the Vice President for Student Services.
- f. "Faculty" means instructional employees.
- g. "Major violation" means one which can result in suspension

or expulsion from the College or denial of degree.

- h. "Minor violation" means one which can result in any disciplinary action other than suspension or expulsion from the College or denial of degree.
- i. "Student" means any person enrolled at the College, whether on a part-time or full-time basis, and includes a person accepted for admission to the college.
- j. "President" means the President of the College.
- k. "Violation" means any conduct, act, or omission to act, which violates a provision of this code, or a regulation, policy or administrative rule of the College or of the Board.

II. Standards: conduct which is contrary to any of the following may subject the student to disciplinary action and shall constitute a violation.

- A. Student Identification: Students will be issued an I.D. card to be used for identification when attending college-supported, sponsored or supervised activities and in checking out materials from the library. A charge will be made to cover the cost of replacement. Misuse of an I.D. Card may result in disciplinary action and shall constitute a violation.
- B. Use of facilities: A student or a student group or association shall comply with established administrative rules and board policies in planning for the use of facilities and in using the facilities.
- C. Speech and Advocacy: Discussion and expression of all views are permitted on college property, provided that:
 - a. peace and order are maintained.
 - b. college-sponsored, supported, and supervised activities, including instruction are not disrupted.
 - c. student activities, whether individual or group, are not disrupted.
 - d. state, federal, and local laws are not violated.

Individual students and campus organizations may invite speakers of their own choosing, provided a policy of the college or board or this code is not violated.

- D. Student Conduct: The following shall be subject to disciplinary procedures:
 - a. The unlawful manufacture, distribution, dispensation, possession or use of illicit drugs and alcohol on college property or as a part of any college-sponsored activity. A student may be required to submit to a drug test prior to returning to class/clinical/internship assignment if current drug use is suspected. Note: When college-sponsored events take place in states or countries where more lenient laws exist, the legal age shall be defined as 21. College sponsors of off-campus events have the right to develop and enforce more stringent rules (such as no alcohol).
 - b. Dishonesty, including but not limited to: cheating; plagiarism; knowingly furnishing false information to the college, forgery, alteration, or misuse of college documents or records.
 - c. Disruption of the orderly process of activities of the college, including unauthorized entry into, obstruction

- of, or occupation of any college property, and including obstruction of entry or exit to any college property.
 - d. Threatening, harassing, physically abusing, or endangering in any manner the physical or mental health and safety of any person.
 - e. Theft, willful destruction, damage or misuse of any property belonging to or in the possession of the college or belonging to or in possession of any person.
 - f. Illegal possession or use of any firearm, explosive, dangerous chemical, or other weapon.
- E. Financial Transactions with the College: The following shall be subject to disciplinary procedures and shall constitute violations:
- a. Failure or refusal to timely pay a debt owed the college.
 - b. Presentation or delivery of any check, draft, or order to the college with intent to defraud.

III. Disciplinary

A. Administrative

1. Investigation and Complaint
 - a. When the Vice President for Student Services receives information indicating that a student has committed a violation, the Vice President shall investigate the alleged violation. After preliminary investigation, the Vice President may:
 1. Dismiss the allegation as unfounded, either before or after conferring with the student;
 2. Proceed administratively as provided below; or
 3. Prepare a complaint for use before the Student Conduct Committee (hereinafter designated SCC).
 - b. The President may take interim disciplinary action, including, but not limited to, suspending the right of the student to be present on the campus and to attend classes, and restricting or altering the other privileges granted the student, when in the opinion of the President the interests of the College would best be served.
2. Notice to Appear
 - a. A student may be ordered to appear before the Vice President in connection with an alleged violation by a notice from the Vice President personally served upon the student; provided, that nothing herein shall prevent the Vice President and student from agreeing informally to meet to discuss the alleged violation.
 - b. The notice shall direct the student to appear at a specified time and place. The notice shall briefly describe the alleged violation and shall state whether the Vice President intends to handle the allegation as a minor or major violation.
 - c. The Vice President may place on disciplinary probation a student who fails without good cause to comply with a notice ordering appearance, or the Vice President may submit the matter to the Student Conduct Committee, or to the President.

3. Disposition

- a. When the student appears before the Vice President whether informally or pursuant to notice, the Vice President shall advise the student of his rights as set forth in this code.
- b. A student may refuse administrative disposition of the alleged violation, and upon refusal, is entitled to a hearing before the Student Conduct Committee. The student must serve the Vice President with a written request for a hearing on or before the third day following the refusal to accept administrative disposition. The Vice President shall then inform the President that a request for a hearing has been made. A student's failure to timely make a written request for a hearing shall constitute an acceptance of administrative disposition, except a signed acknowledgment as provided in IIIA3c shall not be required.
- c. If a student accepts administrative disposition, then the student shall sign an acknowledgment which states that the student understands the following:
 1. The nature of the violation.
 2. That the student has the right to a hearing at which the allegations must be proved by clear and convincing evidence.
 3. The penalty that may be or which will be imposed and its implications.
 4. That the student waives his/her right to appeal.
- d. The Vice President shall prepare an accurate, written summary of each administrative disposition and shall deliver a copy to the student, and, if the student is a minor, shall mail a copy to the parent or guardian of the student.

B. Student Conduct Committee (SCC)

1. Composition and Organization

- a. The SCC shall be composed of three administrative officers of the College other than an officer under the supervision of the Vice President. The members of the committee shall be appointed by the President.
- b. The SCC shall elect a chairperson from its members. The chairperson shall conduct the hearing and shall rule on the admissibility of evidence, motions, and objections; the chairperson's decision may be overridden on a vote of the committee. Each member of the committee, including the chairperson, is eligible to vote at the hearing.
- c. Chairperson: The chairperson shall set the date, time, and place for the hearing and shall issue subpoenas and subpoenas duces tecum upon the request of the Vice President or the student.

- d. The Vice President shall represent the college before the SCC and shall present evidence to support an allegation of a violation. The Vice President and/or the student may be assisted by legal counsel.

2. Notice

- a. The SCC chairperson shall have written notice served upon the student and the Vice President, which notice shall set forth the date, time, and place for the hearing, as well as the nature of the alleged violation. The hearing date shall be not less than five (5) nor more than ten (10) class days after service of the notice. If student is under 18 years of age, a copy of the notice shall be sent by certified, return receipt requested, U.S. mail to the parents or guardian of the student.
- b. The chairperson may for good cause postpone the hearing.
- c. The SCC may hold a hearing at any time if the student has actual notice of the date, time, and place of the hearing, and the student makes written acknowledgment of said actual notice and written consent to the conducting of a hearing.
- d. The notice shall direct the student to appear before the SCC on the date and at the time specified, and shall advise the student that he/she has a right to each of the following:
 1. To a private hearing;
 2. To the presence and assistance of legal counsel;
 3. To the presence of his parents and/or legal guardian;
 4. To have the witnesses against him appear at the hearing and to confront and cross-examine each of them;
 5. To cause the committee to order witnesses to appear on his behalf and to require the production of documentary and other evidence possessed by the College, and to offer evidence and argue in his own behalf;
 6. To have a privately-paid stenographer present at the hearing and/or to record the hearing by electronic means;
 7. To appeal the faculty-student board of review;
 8. To remain silent during the hearing and to not have his silence used against him.
- e. The SCC may suspend a student who fails without good cause to comply with a notice sent under these provisions, or, at its discretion, the SCC may proceed with the hearing in the student's absence.
- f. The Vice President shall have the right to have a stenographer present at the hearing and/or to record the hearing by electronic means.

3. Preliminary Matters

- a. Alleged violations arising out of the same transaction or occurrence, or out of the same series of transactions or occurrences, against more than one student, may be heard together, or, either at the option of the committee or upon request by one of the students or the Vice President, separate hearings shall be held. Alleged violations by one student arising out of the same transaction or occurrence or out of the same series of transactions or occurrences shall be heard together. Alleged violations by one student arising out of unrelated transactions or occurrences may be heard together with the written consent of the student.
- b. At least three (3) class days before the hearing date, the student shall in writing furnish the SCC with:
 1. The name of each witness he wants ordered to appear and a description of all evidence possessed by the College which he wants produced;
 2. Any objection that, if sustained, would postpone the hearing;
 3. The name of legal counsel, if any, who is to appear with him;
 4. A request for a private or separate hearing and the grounds for such request;
 5. A request to exercise any of the student's other rights stated in the notice.
- c. When the hearing is held by consent of the student less than 5 days after service of notice or for other good cause shown, the student may submit the information described in paragraph b. (immediately above) at any time before the hearing terminates.
- d. An objection, which if sustained would require the dismissal of the complaint, may be submitted at any time prior to the termination of the hearing.

4. Procedure

- a. The hearing shall be informal and shall be open to the public unless otherwise requested by the student in accordance with IIIB3b. If the hearing is to be private, the members of the student's immediate family, if requested by the student, may attend.
- b. The hearing committee shall proceed generally as follows:
 1. The chairperson of the SCC shall read the complaint;
 2. The chairperson of the SCC shall inform the student of his rights, as stated in the notice of hearing;
 3. The Vice President shall present evidence in support of the alleged violation;
 4. The student shall present his/her defense;
 5. The Vice President and the student may present rebuttal evidence, and shall have the right to make argument. The Vice President shall have the right of the opening and the closing argument;

6. The committee will vote the issue of whether there has been a violation and shall inform the student and the Vice President of their finding. If the committee finds a violation, the student and the Vice President shall have the right to submit evidence and argument as to the proper penalty;
 7. The committee shall then determine the penalty, if any;
 8. The committee shall state in writing each finding of a violation and the penalty determined. Each committee member concurring in the finding and penalty shall sign the statement. The committee shall include in the statement its reasons for the finding and penalty.
5. Evidence
- a. Rules of evidence shall not apply to hearings before the SCC, and the SCC may admit and give effect to evidence that possesses probative value and is commonly accepted in the conduct of a reasonable person. The SCC shall not consider and may exclude irrelevant, immaterial, and unduly repetitious evidence. The SCC shall recognize as privileged communications between a student and a member of the professional staff, counseling center, or the Office of the Vice President for Student Services where such communications were made in the course of performance of official duties and when the matters discussed were understood by the staff member and the student to be confidential, as well as those communications which are privileged by law. Committee members may freely question witnesses.
 - b. A student is presumed innocent until the Vice President has proven a violation by clear and convincing evidence.
 - c. All evidence offered during the hearing shall be made a part of the hearing record. Documentary evidence may be included in the form of copies, extracts or abstracts, or by incorporation by reference. Real evidence may be photographed or described.
6. Record
- a. The hearing record shall include the student's written notice of appeal, the complaint, all tangible evidence admitted at the hearing, written motions, pleas, and any other materials considered by the committee and the committee's written findings, decisions, and determinations, a transcript if prepared by a certified court reporter, and an electronic recording of the proceedings if the same is delivered to the chairperson upon the termination of the hearing.
 - b. If notice of appeal is timely given as hereinafter provided, the chairperson of the SCC shall deliver the record to the Board of Review, with a copy to the student and copy to the Vice President on or before the tenth class day after the notice of appeal is received.

C. Faculty-Student Board of Review

1. Right to Appeal

- a. In those cases in which the disciplinary penalty imposed was as prescribed in IV A (6) through (11), the student may appeal the decision of the SCC, or the decision of the President in an interim action to the faculty-student Board of Review. Disciplinary actions taken under IV A (1) through (5) cannot be appealed beyond the SCC. A student appeals by giving written notice to the chairperson of the SCC on or before the third class day after the day the decision or action is announced. This notice shall contain the student's name, the date of the decision or action, the name of his legal counsel, if any, and a simple request for appeal.

- b. Notice of appeal timely given suspends the imposition of penalty until the appeal is finally decided.

2. Board Composition

- a. The President shall appoint Boards of Review to hear timely appeals made under this code. Each board shall have three faculty members and two students appointed by the President in alphabetical rotation from available members of the review panel. A chairperson of each Board of Review shall be designated by the President. The duties and powers of all board members shall be the same as those of the SCC, except where otherwise provided. All matters shall be decided by simple majority vote.

- b. The review panel shall consist of ten (10) members, selected as follows:

1. Five (5) faculty members shall be appointed for three-year staggered terms by the President, who may consider but who is not bound by the recommendation of the president of the faculty association.
2. Five (5) students shall be appointed by the President of the College for one-year terms. Student members must have an overall 2.00 average on all college work attempted at the time of their selection to serve on the review panel and must not have a disciplinary case pending. The President may consider nominations submitted by faculty, staff, and students.

3. Consideration of Appeal

- a. The Board of Review shall consider each appeal on the record of the hearing before the SCC. For good cause shown, the board may remand to the SCC to consider and hear newly discovered evidence.

- b. The chairperson of the Board of Review shall give written notice to the student and the Vice President of the time, date, and place of the hearing which shall be held not more than 10 days after the receipt of notice of appeal, unless for good cause shown.

- c. The Board of Review will hear oral argument and will accept written briefs from the student and Vice President.
 - d. The Board of Review may modify or set aside the finding of violation, penalty, or both, if the substantive rights of the student were prejudiced because the SCC's finding of facts, conclusions or decision were:
 - 1. In violation of federal, state or local law, board or college policy or regulation or this code.
 - 2. Clearly erroneous in view of the evidence contained in the record from the hearing before the SCC.
 - e. The Board of Review may not increase a penalty assessed by the SCC.
4. Petition for Administrative Review
- a. A student may appeal the decision of the Board of Review by submitting a petition for review to the President within three days of the decision of the board of Review. The President shall automatically review every penalty of expulsion.
 - b. A petition for review is informal but shall contain, in addition to the information required by IIC1a notice of appeal, the date of the Board of Review's action of the student's appeal and the student's reasons for disagreeing with the Board of Review's decision.
 - c. The President or the Board of Directors in their review may take any action that the SCC is authorized to take. They may receive written briefs and hear oral argument during their review.

IV. Penalties. The Vice President for Student Services, under IIIA or the Student Conduct Committee, under IIIB, or the Faculty Student Board of Review, under IIC, may impose one or more of the following penalties for a violation:

- A. **Warning** - a written reprimand to the student to whom it is addressed.
- B. **Warning probation** - a warning indicating that further violations may result in suspension. Warning probation may be imposed for any length of time up to one calendar year and the student shall be automatically removed from probation when the imposed period expires.
- C. **Disciplinary probation** - a warning indicating that further violations may result in suspension. Disciplinary probation may be imposed for any length of time up to one calendar year and the student shall be automatically removed from probation when the imposed period expires. Students will be placed on disciplinary probation for engaging in activities such as but not limited to the following: being convicted of public intoxication or simulated intoxication, misuse of I.D. Card (minor violation), creating a disturbance in or on campus facilities.

- D. **Withholding of transcript or degree** - imposed upon a student who fails to pay a debt owed the College or who has a disciplinary case pending final disposition. The penalty terminates on payment of the debt or final disposition of the case.
- E. **Bar against readmission** - imposed on a student who has left the College on enforced withdrawal for disciplinary reasons.
- F. **Restitution** - reimbursement for damage to or misappropriation of property. Reimbursement may take the form of appropriate service to repair or otherwise compensation for damages.
- G. **Suspension of rights and privileges** - an elastic penalty which may impose limitations or restrictions to fit the particular case.
- H. **Suspension of eligibility for official athletic and non-athletic extracurricular activities** - prohibits, during the period of suspension, the student on whom it is imposed from joining a registered student organization; taking part in a registered student organization's activities, or attending its meetings or functions; and from participating in an official athletic or non-athletic extracurricular activity. Such suspension may be imposed for any length of time up to one calendar year. This disciplinary action will be imposed for engaging in activities such as the following: possessing or using alcoholic beverages on college property in violation of college rules; destroying college property or a student's personal property; giving false information in response to requests from the College; instigating a disturbance or riot; theft; possession, use, sale or purchase of illegal drugs on or off campus; an attempt to incur personal bodily injury which includes taking an overdose of pills or any other act where emergency medical attention is required; and conviction of any act which is classified as a serious misdemeanor, aggravated misdemeanor, or felony under state or federal law.
- I. **Denial of Degree** - imposed on a student found guilty of scholastic dishonesty and may be imposed for any length of time, including permanently.
- J. **Suspension from the College** - prohibits, during the period of suspension, the student on whom it is imposed from being initiated into an honorary or service organization; from entering college property except in response to a request of the College, and from registering, either for credit or for non-credit, for scholastic work at or through the College.

V. Miscellaneous

- A. In the event any portion of this policy conflicts with the laws of Iowa or of the United States, those laws shall be followed.
- B. All disciplinary proceedings will become a permanent part of the student's records maintained by the College.

- C. Evidence discovered as the result of an illegal search or seizure shall not be considered in determining whether a violation has occurred.
- D. Words and phrases herein shall be construed as in the singular or plural number, and as masculine, feminine or neuter gender, according to the context.

Technology Policy

1. Introduction

The technology facilities and services provided by North Iowa Area Community College, including computing, telecommunications and media services, are primarily intended for teaching, learning, student support, and administrative purposes. NIACC encourages staff and students to make appropriate and innovative use of such resources to further their learning. The use of technology and information resources is governed by all applicable College faculty, staff, and student policies as well as applicable federal, state, and local laws and statutes. It is not the intent of NIACC to provide access to technology and information resources for alumni, the general public, or for private use.

NIACC provides a number of computer labs to the general College population for course work and related educational endeavors. In addition, students enrolled in credit classes are offered a temporary personal Internet account, renewable each semester they are enrolled at NIACC. The policies outlined here apply to the use of these accounts.

2. Staff Access to Institutional Data

The value of data as an institutional resource is increased through its widespread and appropriate use; its value is diminished through misuse, misinterpretation, or unnecessary restrictions to its use.

Access to NIACC institutional data - the permission to view or query institutional data - should be granted to all eligible employees of NIACC for legitimate College purposes. Network accounts (Usernames) will be administered by NIACC Technology Services for all staff.

Data users will be expected to access institutional data only in their conduct of College business, to respect the confidentiality and privacy of individuals whose records they may access, to observe any ethical restrictions that may apply to data to which they have access, and to abide by applicable laws and policies with respect to access, use, or disclosure of information. Expressly forbidden is the disclosure of limited-access or internal institutional data or the distribution of such data in any medium except as required by an employee's job responsibilities. Also forbidden is the access or use of any institutional data for one's own personal gain or profit, for the personal gain or profit of others, or for political purposes.

Personal usernames and passwords should not be shared or used by another person. Violators will be subject to disciplinary action. Computer resources - both hardware and files stored on computers or servers are considered to be the property of the College.

3. Copyright

NIACC recognizes and adheres to U.S. and International copyright laws, software licenses, and intellectual property rights associated with both print and non-print materials.

NIACC forbids, under any circumstances, the unauthorized reproduction of software, or use of illegally obtained software. Using College equipment to make illegal copies of software is prohibited. NIACC employees and students who violate this policy are subject to disciplinary action. Individuals who violate U.S. Copyright law and software licensing agreements also may be subject to criminal or civil action by the owner of the copyright.

4. Internet Access

The Internet is an electronic communications system connecting millions of computers and individual users from all over the world. Internet access is coordinated through a complex association of government agencies, state, and regional networks. Smooth operation of the network relies on the proper conduct of all of its end users.

With access to computers and to people from all over the world, it is possible that users may access materials that might not be considered to be of educational value, may be controversial, offensive, or inaccurate. Any and all access and use of information or materials obtained via the Internet is at the user's own risk. NIACC does not accept any responsibility for the accuracy and/or quality of information obtained through its Internet services.

It is expected that each NIACC employee and student will follow ethical and professional guidelines and abide by College policies when using College computer equipment and services to access the Internet.

5. E-Mail

Electronic mail or E-mail accounts will be available to all NIACC staff, students enrolled in credit classes, and in certain circumstances temporary accounts for students in Continuing Education classes. E-mail can be used internally for campus communications or via the Internet for electronic communications around the world. Appropriate use of E-mail for College-related activities will be expected. While electronic messages being sent or stored on networks or servers will be considered by NIACC to be private communications and the responsibility of the staff member or student, users should be aware that it is possible for a hacker or a network administrator at any point along the worldwide Internet communication path to intercept and view documents. NIACC will not be held liable for individual use of electronic mail or use of the Internet.

6. World Wide Web

The World Wide Web (WWW or Web) provides an opportunity for NIACC to have a presence in the Internet community for public relations, to provide information, and for educational purposes. NIACC's "Home Page" (or pages) on the Web represent the College's programs, policies, and image to the world. Development of Web Home Pages will be encouraged by NIACC departments, staff, and students (as part of an instructional

activity), and should be maintained by each to remain current, accurate, and to appropriately represent the College. NIACC will recommend standards for NIACC Web pages on the Internet, but will not be liable for the content of personal web pages.

7. Responsible Use:

The user bears the primary responsibility for the material that he or she chooses to access, send, or display.

Respect the rights of others by complying with all College policies. Remember that you are representing the College in all of your communications.

Use only computer IDs or accounts and communications facilities which you are authorized to use, and use them for the purposes for which they were intended. Do not let others use your Username or password.

Students will be responsible for maintaining their own files that are stored on network drives including deleting files no longer in use, and copying files that they want to save to removable media (diskettes).

Staff will be responsible for maintaining their own files that are stored on network drives including deleting files no longer in use. Do not use up valuable network storage resources with unnecessary and outdated files.

8. Unacceptable Use:

The following unacceptable activities may result in suspension or revocation of this privilege, disciplinary action, as well as possible legal and civil action by the copyright owner and/or the College.

- a. Unauthorized copying of any software (including operating systems, programs, applications, databases, or code) which is licensed or protected by copyright.
- b. "Computer hacking" (i.e. unwanted or unsolicited entry into a computer system).
- c. Knowingly introducing a "computer virus" to a computer or network (i.e. a program - either harmless or damaging - which attaches itself to another program and/or has the capability to reproduce in order to infect other computers).
- d. Unauthorized access, willful damage, or misuse of systems, applications, databases, code, or data.
- e. Use of the campus network, the Internet, ICN, or other telecommunications or data networks for actions that constitute harassment (as defined by the NIACC Harassment Policy). This includes introducing inappropriate materials to the network, displaying for others to view or hear, or printing on College printers.
- f. Using the network or College equipment to conduct personal business for one's own personal gain or profit, for the personal gain or profit of others, for solicitation of services, or for political lobbying or campaigning.

- g. Allowing others to use your personal Username and password to access campus networks or the Internet.

The above items in this section are all unacceptable activities.

9. Use of NIACC Computer Labs:

- a. First priority use is for scheduled classes and workshops.
- b. Second priority use is for students doing assignments required for classes, or staff preparing for a class.
- c. Third priority use is for other academic uses such as exploration of the Internet and E-mail.

Please limit your time at the computers to one hour when there are other students or staff waiting. If you are not doing work specifically for a class, you may be asked to yield your spot to those who have class assignments to complete. Students violating the Technology Policies or the NIACC Student Conduct Code will be asked to leave and may face loss of computer and Internet privileges and/or disciplinary action.

COLLEGE SERVICES**College Bookstore**

Textbooks and class supplies may be ordered or purchased from the College Book Store located in the Activity Center. The College Book Store can be reached by calling 641-423-7293. Students can also check the Bookstore web site at www.niaccbooks.com for complete information and online ordering.

Summer Hours

May 8 - August 18 9:00 a.m.-Noon
 May 29 - Memorial Day Observed CLOSED
 July 4 - Independence Day Observed CLOSED

Additional Evening Hours

May 8 5:00-7:00 p.m.
 June 5, 6, 7, 8, 5:00-7:00 p.m.

Student Interim Break Hours

December 18, 2006-January 1, 2007 CLOSED
 January 2-5, 2007 9:00 a.m.-Noon
 January 8-12, 2007 8:30 a.m.-3:00 p.m.
 January 15 - Martin Luther King Day Observed CLOSED

Regular Hours

Beginning August 21 8:30 a.m.-3:00 p.m.

Extended Evening Hours

August 25, 28, 29, 30, 31 8:30-6:00 p.m.
 September 4 - Labor Day Observed CLOSED
 September 5, 6, 7 8:30 a.m.-6:00 p.m.
 January 12, 16-18, 22-25 8:30 a.m.-6:00 p.m.

The Bookstore is closed on holidays and weekends.

Textbook Refund Policy

Be sure to keep your Bookstore receipt. Observe the Bookstore Refund Policy that you receive at the time of purchase.

Please purchase all needed textbooks by the end of the third week of each semester. The Bookstore will begin returning unsold books to the publishers at that time.

Protect Your Books!

Once you know you are keeping your textbooks, mark them in some manner so you can identify them if they are lost or stolen. (For example: Put your name in the margin of a particular page of each textbook.)

Bus Service**Mason City**

Bus service is available between the campus and Mason City, Monday through Friday. The NIACC route is available at :12 and :42 minutes after the hour from 6:30 a.m. - 5:30 p.m. at a cost to students of 50 cents. For further information call City Hall at 421-3616.

**Food Court Hours****Academic Year**

Monday - Friday 7:00 a.m. - 2:00 p.m.

Summer Hours

Monday - Friday 10:00 a.m. - 12:30 p.m.

College Operating Hours**General**

Buildings are open to normal student traffic:

Monday-Thursday 7:30 a.m. to 9:00 p.m.
 Friday 7:30 a.m. to 4:15 p.m.

Administrative Office Hours

Monday-Thursday 7:45 a.m. to 9:00 p.m.
 Friday 7:45 a.m. to 4:15 p.m.

Business Office

Monday-Thursday 7:45 a.m. to 5:30 p.m.
 Friday 7:45 a.m. to 4:15 p.m.

Summer Hours

Monday-Friday 7:45 a.m. - 4:15 p.m.

Faculty Office Hours

Hours for conference with students are arranged individually by each faculty member. The schedule of office hours is posted on faculty office doors.

Student Services Hours**Counseling Office Hours**

Monday through Thursday 7:45 a.m.-6:30 p.m.
 Friday 7:45 a.m.-4:15 p.m.

Summer Hours:

Contact the Counseling Center to schedule an evening appointment.

Financial Aid Office Hours

Monday - Friday 7:45 a.m.-4:15 p.m.

Records Office Hours

Monday - Friday 7:45 a.m.-4:15 p.m.

Library

The role of the NIACC Library is to support the curriculum and to provide resources and services to meet the needs of students, faculty, and area residents.

The collection contains a wide variety of books, media, and electronic books. Subscriptions include national newspapers, North Iowa area newspapers, and periodicals with ten-year holdings of most titles. Also available are files containing up-to-date pamphlets, career information, and social concerns materials.

The library is open 59 hours per week, including 4 evenings. A professional staff of one full-time librarian assisted by three full-time and several student assistants provide service for all patrons. Library orientation sessions are offered at the beginning of each semester to inform students of library resources, policies, and procedures. An online version of the orientation is also available from the library web page. A library handbook in print and online is available. A student ID card is required to check out materials. ID cards are available in Student Services.

Word-processing computers, a typewriter, and various types of media equipment are available for use in the library. Copying services are provided at a minimal cost.

The library is connected online to over 45,000 libraries across the country via the OCLC interlibrary loan system. This brings the libraries of the United States to NIACC students. A number of electronic databases, including full-text periodical databases, newspapers, electronic books, and encyclopedias on the World Wide Web, can be accessed through the library's web page. A list of passwords is available for off-campus access. CD-ROM databases are also available. Cooperative agreements with other Iowa community colleges and area libraries provide additional sources of information. The library continues to implement the utilization of new technologies to meet the information needs of NIACC students. The library uses an online library catalog and circulation system to provide easy access to resources. Internet workstations are available for using the World Wide Web. CD-ROM workstations are also available.

The library's Café Bean provides a casual atmosphere where students can meet and relax with coffee and hot chocolate. A wireless hub is available for students wishing to use their laptops.

Library Hours

Fall and Spring Semesters

Monday - Thursday 7:30 a.m. - 8:00 p.m.

Friday 7:30 a.m. - 4:00 p.m.

Closed Weekends

Summer Term II (June 5-July 14, 2006)

Monday - Thursday 7:30 a.m. - 6:30 p.m.

Friday 7:30 a.m. - 4:00 p.m.

Closed Weekends

Vacations, Summer Term I (May 8-June 1, 2006) and Summer Term III (July 17-August 9, 2006)

Monday - Friday 7:30 a.m. - 4:00 p.m.

Closed Weekends

CLOSED HOLIDAYS AND WEEKENDS

Borrowing and Returning Library Materials

Any library material that you wish to borrow must be checked out at the circulation desk. The NIACC Library is equipped with a detection

system to insure that all materials have been checked out. Materials not checked out will cause a voice alarm to sound. Occasionally there will be a false alarm with the system.

To return materials, place them in the book return bin at the circulation desk. After hours, use the book drop in the corridor outside the library.

Identification Cards

Your identification card (I.D.) must be presented to the desk attendant each time you check out any library materials. **IMPORTANT: YOU ARE RESPONSIBLE FOR ALL MATERIAL CHECKED OUT ON YOUR I.D. CARD.**

Report the loss of an I.D. card to the circulation desk immediately; however, the library does not assume responsibility for material checked out on lost cards.

OVERDUES, FINES AND LOST MATERIALS MUST BE RETURNED AND/OR PAID BEFORE A STUDENT MAY RE-REGISTER IN THE COLLEGE OR BE GIVEN TRANSCRIPTS. Consult the NIACC Library Handbook for policies and procedures relating to the Library.

Lost and Found

If you lose or find an item on campus, please contact the Reception Desk in the Administration Building and/or the Athletic Office in the Activity Center.

Parking and Security

The Board of Directors of North Iowa Area Community College has adopted parking and traffic regulations in order to: (a) maximize pedestrian and vehicular safety; (b) ensure access at all times for ambulances, fire-fighting equipment, and other emergency vehicles; (c) make the parking facilities of the college available equitably to all of its members. Students are expected to know and comply with state motor vehicle laws and the traffic parking regulations of the college.

Cars parked in violation will be ticketed. Security will ticket cars parked in violation. The Mason City Police Department is authorized to enforce parking regulations regarding fire lanes and handicapped parking.

NIACC reserves the right to remove a parked vehicle when it is in violation of regulations without prior notification and at subject's expense.

Physically handicapped persons parking in spaces designed for the handicapped must display a State of Iowa Handicapped Parking Permit. Information for permits may be obtained from the Vice President for Administrative Services.

EMERGENCY PROCEDURES

General

1. The safety and welfare of students, visitors, and staff is important to the institution. It is each individual's responsibility to engage in the cooperative effort required to establish and maintain a safe environment.
2. Students should become familiar with the buildings in which they have classes and locate the following:
 - a. Emergency exits
 - b. Fire pull stations
 - c. Fire extinguishers
 - d. Tornado shelters

Reporting

1. All serious illnesses and injuries should be reported immediately to an instructor or an administrator. This will be followed by the reporting student's participation in completing an accident report form.
2. Accident report forms are filed with the Business Office.
3. In the event of a serious accident or critical illness, the affected student's immediate family may be notified by the President or a designee.
4. Recognizing the student's right to privacy, public media information pertaining to serious or major accidents will be handled through the Community Relations Office.
5. Any crime on campus or violation of the Student Conduct Code should be reported to the Vice President for Student Services.

Fire

1. In case of fire, notify an instructor or administrator. If neither are immediately available, sound the building alarm system by use of the nearest pull station.
2. At the sound of the fire alarm, evacuate the building immediately in a calm and orderly manner. Do not assume a false alarm when the fire alarm system is sounded. The fire alarm system is used for fires only.
3. Make sure you move to a point at least 300 feet from the building. Do not return to the building until permission is granted by appropriate personnel (police, fire, or NIACC staff in charge at the scene).
4. Assist disabled students in evacuating from the building.

Tornado

1. It is important to know the following:
 - a. Tornado Watch - Conditions are such that a tornado could develop.

b. Tornado Warning - Sirens Sound - A tornado has been sighted. Seek shelter immediately.

2. Each building is equipped with a Civil Defense Indoor Warning Radio. When a watch is issued, the person monitoring the civil defense radio will notify staff in that building of the watch and the time period involved. Continuing Education monitors the civil defense radio during the evening hours and notifies the evening supervisors, custodial staff, and appropriate personnel of the watch and time period.
3. In the event of a warning, custodial staff and supervisory personnel will notify students in each building.
4. The recommended tornado shelter areas are posted in each classroom.
5. When the tornado siren sounds, immediately go to the designated shelter areas in a calm and orderly manner. Assist disabled students in getting to a designated shelter.
6. In the event you do not have time to reach a designated area, seek shelter in the lowest level of the building, under sturdy objects and against inner walls. Stay out of rooms with large windows, doors, and large roof spans. Crouch into as small a body position as possible.
7. Unless students are already in their cars and leaving the parking lot, they should not make an attempt to drive away from the tornado. A traffic jam at Highway 122 or 12th Street could cause more bodily injury than seeking shelter on campus or in a ravine. A car is not a safe place during a tornado.
8. "All Clear" will come from custodial or supervisory staff. The siren is NOT used to sound an all clear. Assist the emergency personnel as requested.
9. Generally speaking, modern concrete reinforced buildings, such as most of those on our campus, are usually not heavily damaged by a tornado. These structures will generally provide relatively safe areas during a tornado, providing students stay away from windows and doors. Safest areas are rooms on ground floor opposite to the approach direction of the tornado. Do not use elevators during severe storms or tornado warnings since electrical power may be disrupted.

Inclement Weather

The following guidelines will apply to cancellation or delay of College activities in case of hazardous conditions involving weather.

1. Cancellation or Delay of Classes - The decision to cancel or delay classes will be made by the President or a designee. If classes are delayed or canceled, the message will go to the radio and TV stations listed in this section by 6:00 a.m. No announcement of cancellation or delayed opening via the media by 7:00 a.m. will probably mean that classes will be held as usual that day. (Sometimes, due to staff availability or changing weather conditions, there may be a delay in making announcements.)

Station	Location	Frequency
KLSS/ KRIB/KYTC	Mason City Mason City	106.1 FM 1490 AM, 102.7 FM
KGLO/KSMA KIA/FOX	Mason City Mason City	1300 AM, 98.7 FM 93.9 FM, 103.7 FM
KCMR	Mason City	97.9 FM
KCHA	Charles City	96 FM, 1580 AM
KLMJ	Hampton	104.9 FM
KIOW	Forest City	107.3 FM
KRIT	Clarion	96.9 FM
KUNY	Cedar Falls	91.5 FM
KAUS	Austin	100 FM, 1480 AM
KIMT TV	Mason City	Channel 3
KAAL TV	Austin	Channel 6

- Delay of Classes - Students and staff will report to the class normally scheduled for that period of the day and will complete the remainder of the schedule.
- Cancellation of Classes on Final Day of Class - When classes are cancelled on the last day of class, final grades are determined by a student's scores at that point, or if students wish to try to change their grade, they must contact their instructor(s) to make arrangements to take a final test or hand in papers. Instructors have the discretion to honor such requests in these instances. Such requests need to occur prior to the submission date for final grades being submitted to the Registrar.
- Community Education Centers - The Garner, Hampton, and Lake Mills Centers and classes are included in the general announcement unless specified differently. The Charles City Center is included in the general announcement of NIACC Mason City campus unless specified differently. The Charles City Center will remain open to serve community groups and receive phone messages even though day classes may be delayed or canceled. If weather conditions warrant, the NIACC Charles City Center may be closed by the President or his designee.
- Early Dismissal of Classes - Should conditions develop during the day which would dictate that classes be dismissed early, the announcement of such dismissal will be circulated to the buildings by a member of the faculty or administrative staff. Students will not be used to circulate such information. The decision for early dismissal will be made by the President or his designee.
- On-Campus Evening Classes - Any decision regarding on-campus evening classes (those starting after 6:00 p.m.) shall be made as early as possible with a target time of 3:00 p.m., and cancellation announcements will be given over area radio and TV listed above.

- Off-Campus Evening Classes - If the class is held at a K-12 community school site, the decision is made by the local Superintendent of Schools with cancellation announcements initiated by him/her. If he/she closes the K-12 system, NIACC classes held in that community are likewise to be considered canceled.
- Special Events and Auditorium Events - Such events will not be included in the general announcement issued by the College unless specified. Sponsoring organizations will be responsible for announcements of cancellations. EXCEPTION: If it is announced that the campus is closed, all activities are canceled.

Safety Awareness

Crime Awareness and Campus Security

Pursuant to the Student Right to Know and Campus Security Act, North Iowa Area Community College monitors criminal activity and publishes this report and maintains a three-year statistical history. The College distributes a copy of this report to each current student and employee. NIACC notifies prospective students and employees of its availability and provides a copy upon request.

NIACC Crime Statistics Campus Security Act

Criminal Offenses

On-campus	FY 2003	FY 2004	FY 2005
Murder/Non-negligent Manslaughter	0	0	0
Forcible Sex Offenses	0	0	0
Nonforcible Sex Offenses	0	0	0
Robbery	0	0	0
Aggravated Assault	0	0	0
Burglary	3	4	3
Motor Vehicle Theft	0	0	0
Arson	0	0	0
Negligent Manslaughter	0	0	0

Criminal Offenses

On-campus Residence Hall	FY 2003	FY 2004	FY 2005
Murder/Non-negligent Manslaughter	0	0	0
Forcible Sex Offenses	0	0	0
Nonforcible Sex Offenses	1	0	0
Robbery	0	0	0
Aggravated Assault	0	0	0
Burglary	8	4	3
Motor Vehicle Theft	0	0	0
Arson	0	0	0
Negligent Manslaughter	0	0	0

Disciplinary Actions/Judicial Referrals - On-campus

Crime	FY 2003	FY 2004	FY 2005
Liquor Law Violations	6	4	23
Drug Law Violations	6	3	3
Illegal Weapons Possessions	0	0	0

Reporting Crimes

Students are encouraged to report all criminal incidents and/or suspicious activity to the Mason City Police Department. Any crime on campus or violation of the Student Conduct Code should be reported to the Vice President for Student Services.

Sexual Abuse

Sexual abuse is defined as sexual contact with an individual who is either unwilling or unable to consent to the sexual contact.

Members of the counseling staff understand the personal and potentially traumatic nature of these incidents and are available to provide students with support, information, and guidance in responding to incidents involving sexual abuse.

What to do if you are sexually abused

There are a variety of options available to students who are sexually abused. Listed below are several options students may choose when attempting to resolve some of the issues associated with a sexual assault. An individual may select all of these options, or he/she may select none of them. One important component of recovery after a sexual assault is talking about the incident, and each person must choose the avenue that is best for him/her.

1. Contact the police immediately. Dial 911 from a campus extension phone or any other phone. Even if a person is unsure whether or not he/she wishes to file criminal charges, reporting the incident to the police helps maintain available options by preserving important evidence. An individual should not wash, douche, or shower following an assault because it could destroy evidence. Members of the counseling staff are available to assist students throughout this process.
2. Contact a trained sexual assault advocate. Advocates are available through the Sexual Assault Center and may be contacted by the police, emergency room personnel or directly through their answering service at 422-7433. Advocates are available 24-hours each day, and may provide valuable support and information.
3. Contact the Mental Health Center of North Iowa. Professional counselors are an invaluable resource in surviving a sexual assault. Counselors can provide immediate as well as long-term support and may be contacted at 424-2075.
4. Report the crime to the Vice President for Student Services. He/she can provide information about on-campus counseling services and campus disciplinary systems. The NIACC campus discipline system may be utilized for incidents where the parties involved are NIACC students. (See page 178.)

Sexual assault prevention programs are sponsored annually on the NIACC campus with the goal of promoting safe, healthy, non-violent relationships. Educational information is presented at New Student Orientation, during residence hall programs and at campus-wide informational sessions.

COLLEGIATE ATHLETIC PROGRAM



A full athletic program is maintained at NIACC. Men have the opportunity to participate in football, cross country, soccer, basketball, golf, track and field, and baseball. Women's intercollegiate sports are softball, soccer, basketball, golf, cross country, track and field, and volleyball. These athletic offerings give NIACC one of the most diverse sports schedules for junior colleges in Iowa. The opportunity to participate is open to all full-time students who have the desire and ability to compete at the community college level.

Ryan McGuire, Athletic Director

Coaches

Baseball.....	Todd Rima
Basketball, Men's	Bryan Martin
Basketball, Women's.....	John Oertel
Men's and Women's Cross Country.....	Curtis Vais
Football.....	Scott Strohmeier
Men's and Women's Golf	Jennifer Currier
Men's Soccer.....	Colin Murphy
Softball.....	Mary Jo Vrba
Men's and Women's Track & Field.....	Curtis Vais
Volleyball	Ted Bieth

Athletic Conference

NIACC is a member of the Iowa Community College Athletic Conference (ICCAC) and the National Junior College Athletic Association (NJCAA).

Eligibility

The following are established criteria for participation in athletics at NIACC which are based on the policies established by NJCAA.

1. Student must be a high school graduate and show evidence thereof by submitting a diploma or a GED certificate. Official transcripts of all previous schools attended must be on file in the Admissions Office including both high school and college transcripts. Transcripts should be on file prior to enrollment but must be received before the eligibility roster is sent to the National Office.
2. Non-high school graduates can establish eligibility for athletic participation by completing one term of college work (passing 12 credits with a 1.75 grade point average or higher). This must take place after the student's high school class has graduated.

3. A physical exam is required prior to the first practice by a qualified health care professional licensed to administer physical examinations.
4. In order to remain eligible, student athletes must pass 12 semester hours with a grade point average of 1.75 or higher the semester prior to the first year of athletic competition. For sports like basketball, which encompass both semesters, an athlete must pass 12 semester hours during his/her first semester to be eligible during second semester. In order to be eligible during the second year of competition, all athletes must pass 24 semester hours with a 2.00 grade point average and pass 12 hours in their previous term with a 1.75 grade point average. It is the responsibility of the athletic director to certify the eligibility of each student athlete, who may be contacted for further information.

Athletic Scholarships

Athletic scholarships are available in limited number. These are awarded for the purpose of aiding athletes financially and providing talent on athletic teams in a highly competitive conference. The awards are based on:

1. Outstanding athletic ability.
2. Ability, desire and interest to do classroom work.
3. Recommendations.

Athletic scholarships shall not exceed the cost of tuition, fees and books. These scholarships may be supplemented by other forms of financial aid available to all qualified NIACC students.

Some general rules for NIACC athletes transferring to a senior college are:

1. A NIACC Associate in Arts graduate is eligible for athletic participation immediately upon transfer to any four-year college.
2. Some colleges permit an athlete to transfer after two terms with 24 hours credit with a 2.00 grade point average and be eligible immediately.
3. NIACC coaches and officials make every effort to assist graduating athletes to continue their athletic endeavors at a senior college.



COUNSELING

Where and when are counselors available?

A counselor is available from 8:00 a.m. to 6:30 p.m. Monday through Thursday; and on Friday from 8:00 a.m. to 4:30 p.m. The Counseling Center is located in the Administration Building, Room 104.

Who may use the Counseling Center?

The counseling/advising service is available to all NIACC students. There is no charge for this service.

How do I make my first contact with the Counseling Center?

Since the services of the Counseling Center are offered to you on a voluntary basis, you may arrange for an appointment whenever you have something you wish to discuss with a counselor. However, should you feel the need to see a counselor immediately, feel free to come to the Counseling Center without an appointment. Arrangements for an appointment with a counselor are made with the office assistant at the Center during regular office hours or by calling 422-4207.

How does counseling work?

Your counselor's job is to help you gain a better understanding of the significance of your feelings, attitudes, aptitudes and other personal data in order for you to have a more realistic basis upon which to make your own decisions. The ultimate goal is to help you grow in self-understanding so that you can cope better with your immediate situation and any problems that may arise.

Academic Advising

When you register, you are assigned a counselor/advisor according to your major. Most students continue to work with this counselor/advisor; however, changes may be made.

Every effort is made to ensure the accuracy of information given in the curriculum section of the catalog, and academic advisors advise students to the best of their abilities. IT IS, nevertheless, THE RESPONSIBILITY OF THE STUDENT TO BE CERTAIN THAT THE COURSES SELECTED WILL MEET THE REQUIREMENTS FOR THE DEGREE SOUGHT. Students should correspond with the transfer college and obtain verification of their complete program at North Iowa Area Community College.

Sample two-year plans are available on the Internet (www.niacc.edu).

For all beginning students, an entrance exam of ACT scores or COMPASS scores is needed. The chart on the following page contains the course placement information used for entry-level advising.

Career Counseling

Career counseling is available to assist students in making decisions about their college major and future career direction.

Students may either make an appointment with a counselor for individual assistance or attend career choices workshops offered on campus.

In career counseling, various assessments may be used to help students learn about their interests, personality preferences, values, and aptitudes and how they relate to their choice of college major and future career direction.

Special Needs

North Iowa Area Community College endeavors to provide reasonable accommodations for students requiring special services. NIACC has established policies and procedures to implement provisions of the Americans with Disability Act (ADA). These policies are used to determine reasonable accommodations for students with disabilities to meet academic and technical standards required for their educational program. Support Services are located in Student Services, AB104. These services are available at no cost.

The student must submit a request for accommodation to their counselor describing the requested accommodation. The student is responsible for providing documentation of the disability. The request must be received within the first three weeks of the semester unless special circumstances occur. A request form is available from the counselor. For additional information, contact 1-888-GO NIACC, ext. 4207, and ask for a special needs brochure.

Student Health

Accident and Health Insurance

The purchase of student health insurance is voluntary at NIACC. Brochures identifying several plans are available in the Student Services Office. Uninsured students, or students enrolled in courses or activities where potentially hazardous situations may occur are encouraged to obtain health/accident insurance. Medical costs for treatment of illness or accident, not covered by personal insurance, must be paid by the individual student.

Emergencies

A referral will be made to a local medical facility when a student requires immediate medical attention. The student and parent will be responsible for the payment of such services.

FAMILY HEALTH LINE (formerly ASK-A-NURSE) 422-7777 or 1-800-468-0050

This is a community service which is offered 24 hours a day, 7 days a week and is staffed by an RN. The following services are provided: health information, physician referrals, community services and hospital services referrals.

**COURSE PLACEMENT INFORMATION
for Entry-Level Advising**

MATHEMATICS PLACEMENT					
Entrance exam scores and high school requirements must be met.					
ACT* Math	COMPASS				Course Placement
	Pre Algebra	Algebra	College Algebra	Trig	
01-11	01-24				MAT-030 Enrich Math I
12-15	25-48				MAT-053 Pre-Algebra Credit earned will not satisfy the requirements for an associate degree and will not be used in calculating the cumulative grade point average for graduation. (MAT-710 Business and Financial Math requires ACT Math 01-15 or COMPASS Pre-Algebra 01-48)
16-20	49-100	01-51			MAT-063 Elementary Algebra Credit earned will not satisfy the requirements for an associate degree and will not be used in calculating the cumulative grade point average for graduation. MAT-770 Applied Math (Automotive, Building Trades, Climate Control, Electromechanical, and Tool & Die Programs)
16-21	49-100	01-75			MAT-110 Math for Liberal Arts (Requirement: one year of high school algebra with a C or higher.)
20-21		51-75			MAT-102 Intermediate Algebra (Requirement: one year of high school algebra with a C or higher.) This course may not be used to satisfy core requirements. Elective credit only. MAT-112 Math for Elementary Teachers I (Requirement: successful completion [C or higher] of one year of high school algebra and one year of high school geometry.)
21-26		76-100	1-40		MAT-121 College Algebra (Requirement: two years of high school algebra with a C or higher. ACT = 21.) MAT-134 Trigonometry & Analytic Geometry (Requirement: ACT = 26) MAT-140 Finite Math (Requirement: two years of high school algebra with a C or higher.) MAT-156 Intro to Statistics (Requirement: two years of high school algebra with a C or higher.)
26-27			41-50		MAT-128 Precalculus (Requirement: two years of high school algebra with a C or higher and one year of geometry with a C or higher.)
28-36				51-100	MAT-210 Calculus I (Requirement: two years of high school algebra with a C or higher and one year of geometry with a C or higher and at least one semester of precalculus or trigonometry with a C or higher.)

*ACT scores are valid only if they are less than three years old. Students with outdated scores should contact the Admissions Office to schedule the Compass Assessment.

WRITING PLACEMENT		
COMPASS Writing	ACT English	Course Placement Guidelines
01-44	01-12	ENG-015 Elements of Writing - Students who enroll in Elements of Writing MAY receive 3 hours of Composition I credit if they achieve competency.
45 and above	13-36	ENG-102 Composition & Speech I Note: Electromechanical students should enroll in ENG-701 Communications I (or Composition & Speech I if transfer is primary goal)
READING PLACEMENT		
COMPASS Reading	ACT Reading	Course Placement Guidelines
01-81	01-18	RDG-125 College Reading Strategies is strongly advised. This course is a recommended prerequisite or corequisite with any Social Science class.
82-100	19-36	Any reading-based course (such as Sociology or History). Enrollment in RDG-125 College Reading Strategies is appropriate for all students.

ENRICH PROGRAM

Placement into the Enrich Program would be mandatory if a new student exhibited both elements of the following profile:

1. Developmental scores in reading, writing, and math.
Reading - ACT reading score below 16 or COMPASS reading score below 66.
Writing - ACT writing score below 13 or COMPASS writing score below 45.
Math - ACT math score below 16 or COMPASS score below 49% at the pre-algebra level.
2. High school GPA at or below 2.00 or high school class rank of zero.

Information About Enrich

Enrich is a one-year program culminating in a General Studies diploma. It contains classes in reading, writing, math, and personal management, career decision making, skills for job seeking, a cooperative education experience, and civic responsibility. These courses offer developmental credit and are eligible for financial aid. In addition, students enroll in a special topics seminar each semester that focuses on personal and career issues.

Student Support Services

Student Support Services is a federally funded grant project which helps eligible students stay in college and graduate. The Project offers counseling, tutoring, a college survival skills orientation course, career exploration, transfer assistance, and cultural awareness.

Recipients of these services must be citizens or legal residents of the United States who are currently enrolled in a credit program. Participants must meet at least one of the following eligibility requirements: first generation student, low income, and/or physically handicapped/learning disability. Students interested in these services should call (641) 422-4105, or 1-888-GO NIACC, Extension 4105, or stop at the Student Services Office in the Administration Building.

Substance Abuse Prevention and Referral

NIACC recognizes drug abuse as a potential health, safety, and security problem. Students needing help in dealing with such problems are encouraged to seek assistance from our college professional counselors and utilize the resources made available through the campus and the community.

Vocational Rehabilitation Services

Rehabilitation services are available to eligible students attending NIACC. These may include medical and psychological assessment, vocational evaluation, counseling and guidance, assistive technology, job training, and job placement assistance.

You may receive more information by calling 422-4227 or by stopping by the Activity Center, Room 205.

FINANCIAL AID AND SCHOLARSHIPS

FEDERAL AND STATE FINANCIAL AID

North Iowa Area Community College provides financial assistance in the form of grants, scholarships, loans, and part-time employment (work study) to meet educational expenses. Most of the assistance requires that the student demonstrate financial need. Students apply for financial aid by completing the Free Application for Federal Student Aid (FAFSA).

The FAFSA application may be completed anytime throughout the academic year. However, NIACC must have a valid federal output document (Student Aid Report) on file by the last day of your enrollment, or by August 31, following the end of the award year, whichever is earlier.

Applicants selected for verification must complete the verification process no later than 60 days after the last day of enrollment or August 31, 2007, whichever is earlier. Verification is complete when the school has received all documentation requested, and the school has a final and valid Student Aid Report on file showing the official EFC.

Applications received at the Federal Processing Center by March 1 will be given priority consideration for financial aid.

To be eligible for financial assistance, a student must meet the following eligibility criteria:

1. Have a high school diploma or GED or have passed an independently administered ability to benefit test.
2. Be a U.S. citizen or eligible noncitizen.
3. Be enrolled as a regular student in an eligible program of study for the purpose of obtaining a degree.
4. Be registered with Selective Service, if required (most males from age 18-25).
5. Maintain Satisfactory Academic Progress.
6. Not owe a refund on a Federal grant or be in default of a Federal educational loan.

GRANTS

Federal Pell Grant

Federal grants awarded directly to students. Students must demonstrate need.

Federal Supplemental Educational Opportunity Grant

- Federally funded grants administered by NIACC
- Student must demonstrate need
- Awards limited to funds available

Iowa Vocational-Technical Grant

- Iowa resident
- Enrolled in Career or Career Option programs
- Student must demonstrate need
- FAFSA Application must be filed by July 1

Iowa Grant

- Iowa resident
- Student must demonstrate need
- Awards limited to funds available

The Iowa National Guard Tuition Assistance Program

The Iowa National Guard Tuition Assistance Program (INGTAP) may pay up to 50% of undergraduate tuition for active members of the Iowa Army and Air National Guard. Eligibility for this tuition assistance program is determined by the Adjutant General of Iowa and funding for the program is determined on an annual basis by the Iowa General Assembly.

Individuals must submit an application to their Unit Commander to apply for this program. The Adjutant General determines eligibility and then notifies the Iowa College Student Aid Commission (ICSAC) of approved applications. The College is notified by the Iowa College Student Aid Commission of the student's eligibility.

WORK STUDY

Federal Work Study (FWS)

- Part-time work opportunities
- Federally funded, NIACC administered
- Student must demonstrate need

Students awarded work study will receive an informational letter explaining the work study process. Students must complete the I-9 and W-4 payroll forms before they are allowed to begin employment. These forms can be completed at the NIACC Business Office. Students must complete a work study authorization before employment. This authorization allows NIACC to apply their earnings toward their college account. When the account is paid in full, the earnings will be released to the student. Students can choose to cancel their authorization; however, if they owe a NIACC bill, the check will be held in the Business Office until the debt is paid in full.

LOANS

Students interested in borrowing under the Federal Direct Stafford Loan program must provide any requested information from the NIACC Financial Aid Office so that a valid Student Aid Report is on file *and* a loan can be originated by the last day of a student's enrollment. Failure to meet these deadlines could result in the forfeiture of student aid eligibility.

Nursing Student Loan

- Low interest (5%) loans
- Available to Associate Degree Nursing students
- Student must demonstrate need
- Awards limited to funds available

Federal Direct Stafford Loan

- Low interest loans, fixed in-school rate of 6.8%
- Eligibility is determined from the Free Application for Federal Student Aid (FAFSA)
- Student must demonstrate need
- Maximum loan \$ 2625 for freshmen and \$ 3500 for sophomore students per year
- Independent students may request up to an additional \$ 4000 unsubsidized loan.
- Department of Education loan origination fee of 3%

Federal Direct PLUS Loan

- Low interest loans, fixed rate of 8.5%
- Loans available to parents of dependent students
- Financial need is not required
- Maximum loan amount limited to cost of attendance minus other financial aid
- Department of Education loan origination fee of 4%

Loan Requirement

Students that borrow federal loans will be required to complete an Entrance Counseling session prior to any disbursements. This federal requirement can be completed by attending an Entrance Counseling session with a Financial Aid officer, viewing the Department of Education's entrance video in the Student Learning Center, or completing the requirement on-line at www.dl.ed.gov. Upon completion of one of these sessions, the student must submit the Rights and Responsibilities checklist to the Financial Aid Office. When students have completed their degree requirements or drop below half-time status, they are required to complete an Exit Counseling session. Students can attend an Exit session in one of the same three ways as the entrance requirement. They will learn about the importance of repaying student loan obligations and the consequences they may face if they default on a Federal student loan. Repayment schedules and options will be explained to each student. For more information on the Federal student loan programs, you can visit their Internet site: www.dl.ed.gov.

METHOD AND FREQUENCY OF DISBURSING FINANCIAL AID DISBURSEMENTS

Upon receipt of the student's award letter and loan acceptance (if applicable), the financial aid will be transmitted to the Business Office and applied to the student's bill. Any payment due the student, after payment of tuition and fees (and residence hall charges, if applicable), will be released to the student as scheduled by the Business Office. The first release of excess funds is usually two weeks after the beginning of the semester, and approximately every two weeks thereafter for aid finalized after the semester begins. NOTE: If students are first time loan borrowers, there is a Federal mandatory 30-day waiting period before funds can be released to students.

Financial Aid awards for Fall, Spring, and Summer semesters are locked in at the end of the fifth day of classes for awards that are completed by the start of the award period. Aid will not be adjusted if a student changes his or her schedule after the fifth day of classes. The student will need to follow Satisfactory Progress Guidelines for Financial Aid as stated in the Student Handbook. Please check with the Financial Aid Office for further information.

For additional information regarding application procedures, deadlines, financial need, and resources available, call the NIACC Financial Aid Office, 1-888-GO NIACC, Ext. 4168 or (641) 422-4168.

SATISFACTORY PROGRESS FOR FINANCIAL AID RECIPIENTS

Federal regulations require that students maintain satisfactory progress while pursuing their educational course of study in order to receive financial aid. Students who apply for financial aid will have their academic records reviewed each semester to determine if satisfactory progress is being made according to the following guidelines:

- Full-time students enrolled in a four-semester program of study are allowed no more than six full-time equivalent semesters to attain an associate degree (whether or not aid is actually received during that time). Should a program require summer attendance, an appropriate proportion will be added.
- Full-time students enrolled in a two-semester program of study are allowed no more than three full-time equivalent semesters to attain a diploma (whether or not aid is actually received during that time). Should a program require summer attendance, an appropriate proportion will be added.
- Part-time students will be given proportionally longer to attain their degree.

In order to maintain satisfactory progress the following will apply:

A student enrolled full-time (registered for 12 or more credits) must complete ten credit hours per semester with a minimum cumulative GPA of 2.00.

A student enrolled three-quarter time (9-10-11 credit hours) must complete 7 credit hours per semester with a minimum cumulative GPA of 2.00.

A student enrolled half-time (6-7-8 credit hours) must complete 5 credit hours per semester with a minimum cumulative GPA of 2.00.

A student enrolled less than half-time will be expected to complete all course work attempted with a minimum GPA of 2.00.

Letter grades of I, N, W, Q, and F do not count toward completed credit. Letter grades of T, L, or P are used in credits completed. A letter grade of O exempts past grades earned by the student.

Remedial courses and repeated courses may be used as part of the student's load. However, maximum time frames still govern satisfactory progress.

Transfer credits will apply toward the maximum number of terms to attain a degree.

Probation

Any student failing to meet these standards will be placed on Financial Aid Probation. Any student on Financial Aid Probation will have one semester to bring his/her course work up to minimum

standards. The student will still be able to receive financial aid for the probationary semester.

Termination of Financial Aid Eligibility

If a student fails to attain these standards by the end of the probationary semester, he/she will be terminated from further financial aid.

Reinstatement

To regain eligibility for financial aid, the student will have to bring their course work up to minimum standards at their own expense. It is the responsibility of the student to notify the Financial Aid Office that their course work meets minimum standards. A student may also submit a written appeal documenting mitigating circumstances (ex: withdrawal because of illness) that prevented him/her from meeting minimum standards. Appeals will be reviewed by the Financial Aid Appeal Committee and a written response will be communicated to the student.

Title IV Financial Aid Class Attendance Policy

Students receiving Federal financial aid MUST attend class on a regular basis AND make satisfactory academic progress. If you fail to attend class on a regular basis, your financial aid will be suspended. Federal repayment and/or refund calculations of financial aid will be based on class attendance as provided by your instructor(s). NIACC's attendance policy for arranged or on-line classes is documentation from the instructor that the student has made contact with the instructor and has made progress towards completion of the course. If you get Federal student aid, and you do not attend class, you will have to pay it back.

SCHOLARSHIPS

Foundation Scholarships

Scholarships are made possible through the generous support of individuals, businesses, industries, and foundations throughout the North Iowa area.

Students wanting information about scholarships should contact the NIACC Financial Aid Office. A complete listing of scholarships is available online.

Trustees' Scholarships

Valedictorians and salutatorians from accredited high schools are eligible for full-tuition scholarships. Students must enroll full time by the fall semester following their high school graduation. These scholarships are renewable, assuming the student maintains a 3.25 GPA and completes 24 semester hours.

President's Scholarships

These scholarships are automatically awarded to high school seniors with an ACT composite score of 23 or higher enrolling full time at NIACC by the fall semester following their high school graduation. The amount of scholarship increases depending on the ACT score.

The categories are as follows:

ACT Composite 23 to 27	\$ 500
ACT Composite 28 to 30	\$ 1,000
ACT Composite 31 to 36	\$ 1,500

President's Scholarships may be renewable. The student must complete 24 semester hours and maintain a 3.25 GPA. If a student is awarded a Foundation Scholarship and is able to renew his/her President's Scholarship, an evaluation will take place to ensure the student receives the greater award.

Adult Part-time Scholarships

These community-based scholarships (up to \$ 500) are for adults from the Lake Mills and Charles City areas taking at least two, but no more than eleven semester hours of credit. Contact the appropriate Center director.

Ambassador's Scholarships

The Ambassador Scholarship program provides financial incentives and rewards for promising NIACC graduates. The goal is to encourage strong academic performance by these Ambassadors as they pursue their studies at senior universities. Awards are made at the time of graduation. Applications can be picked up at the NIACC Financial Aid Office.

Residence Hall Scholarships

These scholarships are awarded to both returning and new students who have shown good citizenship and leadership in a group living environment. Academic ability is also considered. Applications are available through the Financial Aid, Admissions, or Residence Hall Offices.

Pappajohn Entrepreneurial Scholarships

These scholarships are awarded to students who have established an interest in entrepreneurship and plan to continue their education in this area. Awards are based on academic ability and interest and experience in the field. Applications are available through the Financial Aid Office or the Pappajohn Center.

Special Talent Scholarships

These scholarships are awarded by staff involved in the specific program area. Typically, special talent scholarships are awarded in vocal music, instrumental music, journalism, art, athletics, and theatre. Contact the departments for further information.

Study Abroad Scholarships

These scholarships are awarded to students who plan to participate in either short-term or semester-long College-sponsored Study Abroad opportunities, and who have earned 12 semester hours with a 2.50 GPA or better. Financial need, and academic ability are also considered. Applications are available through the Financial Aid Office.

Will F. Muse Scholarship Fund

The Will F. Muse Scholarship Fund was established by Mrs. Ralph (Elizabeth Muse) Norris in memory of her father. Annual awards help students reach education goals at NIACC or the college of their choice.

To be eligible, applicants must be high school graduates or must possess a general equivalency degree. Priority is given to residents of Cerro Gordo County. Applications, available from the Financial Aid Office at NIACC, must be completed and submitted by February 1.

Recipients must agree to submit official transcripts showing successful completion of work for the period covered by the grant award.

Christopherson Medical Scholarship Fund

The Christopherson Medical Scholarship Fund was established by the family, friends, and associates of Dr. Joseph E. Christopherson and his wife, Evelyn, to encourage talented students from North Iowa to become physicians.

To be eligible, applicants must be premedical or medical students. Of premed students, priority is given to NIACC students. Application information, available from the Financial Aid Office at NIACC, must be completed and submitted by the March 1 deadline.

Scholarship Providers**Permanent Endowed Scholarship Funds**

Dr. Carroll O. Adams and Velma I. Adams Scholarship
Earl Ashland Memorial Fund
Automotive Service Excellence Scholarship
Arlene Baia Memorial Scholarship
Bonnie Baia Memorial Scholarship
Dr. Martha Ann Thomson Barclay Scholarship
Clifford H. Beem Memorial Fund
Barbara Bush Scholarship Fund
Business & Professional Women Scholarship
Carstensen Family Scholarship Fund
Cerro Gordo County Medical Society Scholarship
Christopherson Medical Scholarship Fund
Caroline O. Colson Memorial Scholarship
Concert Band Scholarship
George Coyan Memorial Scholarship Fund
Dellage Family Scholarship
Donald K. DePrenger Memorial Scholarship
Dr. John B. and Mary Jane Dixon Scholarship
Elgin G. Enabnit Scholarship Fund
Simon Estes Scholarship
Fangman Memorial Fund
Edgar S. Gage Family Scholarship
Henry R. Giesman Memorial Scholarship
Bill and Rachael Gildner Scholarship Fund
Paul and Clara Gustafson Memorial Fund
Esther C. Haase Memorial Scholarship Fund
Ward D. Harrison Memorial Fund
Polly Hedgecock Memorial Scholarship Fund
Leon and Naureen Heiman Memorial Scholarship
Dick and Jo Herbrechtsmeyer Scholarship
Hermanson Scholarship
John and Donna Hitzhusen Scholarship Fund
Frank Hoffman Memorial Scholarship Fund
Robert H. and Mary Isensee Scholarship Fund
Rollo C. Keithahn Memorial Scholarship Fund
Harriet Klath Memorial Fund
Robert W. B. (Bob) Krieger Memorial Scholarship
Glen and Penny Krogh Scholarship Fund
Florence Liebl Memorial Fund
Kenneth A. Loeb Memorial Scholarship Fund
Art and Rachelle Lundblad Scholarship
Charles W. and Mary Jane Maxon Memorial Scholarship
Becky K. McGee Memorial Scholarship Fund
Mercy Medical Center - North Iowa Scholarship Fund
NIACC Employee Scholarship Fund

North Iowa Automotive Technology Scholarship Fund
NSB Bank Scholarship
Opheim Family Scholarship
Esther Pagenhart Scholarship Fund
Alma Partridge Education Scholarship Fund
Allen D. and Ann Y. Patton Scholarship Fund
Hjalmer and Margaret Peterson Memorial Fund
Joel Picker Social Science Scholarship
Roger and Marie Pitman Memorial Fund
Terry D. Reichardt Memorial Engineering Scholarship
Colin and Carol Robinson Scholarship Fund
John S. Rothamel Memorial Scholarship
Schaefer Building Trades Scholarship
Marie J. Schalekamp Memorial Scholarship
Frank Schmitz Memorial Scholarship
Hazel Simpson Scholarship
Kathleen Sonnesyn Memorial Scholarship Fund
John O. Starks Memorial Scholarship Fund
Stenecker Family Fund
Dean Stephens Memorial Scholarship
Esther L. Strickland Scholarship Fund
Delphine Suter Memorial Scholarship Fund
Dale and Louise Swanson Scholarship
Helen Perkins Thompson Scholarship
George I. and Eunice A. Tice Scholarship
Dr. Calvin H. Warne Memorial Scholarship
Tom Wedeking Memorial Scholarship
Charles S. and Mildred M. Whitney Scholarship Fund
Maude Wilson Theatre Arts Scholarship Fund
Melvin "Bud" Wilson Scholarship

Term Scholarships (Sponsors vary annually)

ACE Credit Union Scholarship
Robert and Lois Bergland Scholarship
Beta Sigma Phi Scholarship
BF Chapter TTT Scholarship
Wayne Brady Scholarship
Central States Gun Collectors Scholarship
Chapter IW PEO Education Scholarship
Charles City Scholarship Fund
Communication Skills Scholarship
Cooper Company Scholarship
CURRIES Scholarship
CURRIES Mechanical Design Technology Scholarship
Delta Kappa Gamma XI Chapter
85th Anniversary Scholarship Fund
First Citizens National Bank Scholarship
Gene and Pat Galasso Scholarship
Betty Geer Scholarship Fund
Mae D. Greene Memorial Scholarship
Haas Chiropractic Scholarship Fund
Frank and Margaret Hoffman Organ Study Scholarship
Hormel Foods Corporation Scholarship
Naomi and Thor Jensen Scholarship
G. K. Johnson Scholarship
Lake Mills Scholarship Fund
Virginia Lawrence Scholarship
Virginia Lawrence Scholarship in memory of
Kay Cavanaugh Maring

Lime Creek Nature Center Foundation Murphy Scholarship
 Paul and Barbara MacGregor Scholarship Fund
 Angus MacNider Memorial Scholarship
 Manufacturing Technology Scholarship Fund
 Martin Marietta Scholarship
 Ann Schinnow Mason Memorial Scholarship
 Mason City Chamber of Commerce Scholarship
 Masters' Chiropractic Scholarship
 MCHS Class of 1955 Scholarship
 MCHS Class of 1961 Scholarship
 Mrs. John (Mildred) McMenimen Memorial Scholarship
 Mercy Medical Center Auxiliary-North Iowa Scholarship
 Loyal and Pearl Minor Memorial Fund
 NIACC Alumni Association Scholarship
 NIACC Board of Directors Scholarship
 NIACC Bookstore Scholarship
 NIACC/Family Practice Physical Scholarship
 NIACC Foundation Board of Directors Scholarship
 NIACC Foundation Tool and Die Technology Scholarship
 NIACC Retiree Scholarship
 North Iowa Area Community College Educators Association Scholarship
 North Iowa Vintage Auto Club Scholarship
 Frederick J. Olson Memorial Scholarship
 Tom Osborne Scholarship
 John and Mary Pappajohn Scholarship
 PEO Chapter KX Scholarship in Memory of Darlene Akers
 Pinnacle Financial Group Inc. Scholarship
 The Principal Financial Group Foundation, Inc. Scholarship
 River City Street Rods Scholarship
 Carletta Sinnett Rosenthal Memorial Fund
 75th Anniversary Scholarship Fund
 Bertha Stebens Fine Arts Scholarship Fund
 Ira Stinson Memorial Fund
 30 Couple Marathon Scholarship
 3M Forest City Distribution Center Scholarship
 Wells Fargo Bank Scholarship
 Winnebago Mechanical Design Technology Loan/
 Scholarship Program

Other Scholarships and Loans

NIACC students are encouraged to seek out local groups which work independently to provide scholarships to NIACC.

Those wanting financial aid in the form of grants, loans, and employment should seek the assistance of the Financial Aid Office. (Short-term emergency loans are made available by the Financial Aid Office from the Louis Bosveld Student Loan Fund.)

VETERANS' EDUCATIONAL BENEFITS

Current courses for college transfer and most career programs are approved for veterans' benefits. Generally those veterans who have been released from active duty fewer than 10 years ago under honorable conditions and who have served 181 days or more of continuous active duty are eligible. For further information contact the NIACC Veterans' Affairs Office in the Administration Building, Room 104.



NORTH IOWA CAREER CENTER

The North Iowa Career Center (Activity Center, Room 209) provides career exploration and job search assistance for NIACC students and alumni. Resources include:

Career Exploration Tools

- Discover--career interest, ability, and work values assessments plus links to other online resources
- Internships, job shadowing, and mentoring opportunities
- Company tours and speakers for club events or classes
- Career program placement statistics and access to other Labor Market information including major related occupations, and occupational wages and trends
- Computer Resource Center
- Informational Library

Job Search Assistance

- Access to job leads through the campus job board, e-mail notification, instructor notification, and Internet resources
- Annual job and internship fair
- Job search tips and tools such as:
 - What can I do with my major
 - Locating job leads
 - Completing applications
 - Writing cover letters, resumes, and other job search correspondence
 - Practice interviewing
- Career program placement statistics and access to other Labor Market information regarding occupational wages and trends
- Computer Resource Center
- Informational Library
- Job Seeking Skills course (also available online)

Many resources are available online. Be sure to visit our web site at www.niacc.edu/career_center.

The North Iowa Career Center works in partnership with Iowa Workforce Development. IWD resources available include:

- Access to IWD registration for job listing notification and referral services
- Free job search workshops

- Wage surveys, job outlooks, and other labor market information studies
- Referrals to programs that help defray training costs

Companies are invited to send interviewers to the campus during the year. The North Iowa Career Center does not necessarily endorse companies represented either on campus or online. Interested applicants should investigate the integrity of these companies before accepting employment.

The North Iowa Career Center does not guarantee students or graduates employment. Rather the Center provides tools and resources useful in locating and obtaining employment upon graduation and throughout your career.

Appointments recommended.

Cooperative Education Internship Program

North Iowa Area Community College provides an educational program in which a student has the opportunity to blend theory and practice by combining classroom learning with planned and supervised field experience.

Cooperative Education Internship is a program which incorporates academic work with employment experience to provide a more meaningful and valuable total experience for the college student. The goal is to afford students the opportunity to enhance their academic knowledge, personal development, and professional preparation.

Credit is granted for the field experience in a Cooperative Education Internship. Students may earn up to 5 credits per term and apply 12 credits toward an associate degree. Appropriateness of learning objectives is an essential feature in the approval for credit process. For further information, contact the Student Services Center at 641-422-4207.

ON-CAMPUS HOUSING

North Iowa Area Community College provides housing facilities for 450 single men and women. The residence hall is located at the north edge of the NIACC campus and is within easy walking distance of classrooms, laboratories, the library, and the Activity Center.

The residence hall at NIACC has complete facilities for comfortable living. Rooms are carpeted and furnished with single beds, mattresses, draperies, wardrobes, individual study desks, chairs, telephone, and cable television service. Students provide their own bed linens, mattress pads, blankets, pillows, and towels and maintain the cleanliness and orderliness of their own rooms. A refrigerator is available to rent. A computer lab is available for student use.

NIACC also provides apartment-style housing for returning sophomore residents who qualify based on their grade point average, and the ability to live with three other similarly qualified individuals. NIACC has 12 such apartments; each apartment has two bedrooms, two bathrooms, a kitchenette, dining room and living room combination and a patio overlooking one of our two lakes. The Housing staff reserves the right to determine which residence hall residents will reside in the NIACC apartments.

Food service, located in a commons area, provides the student with 19 all-you-can-eat buffets for lunch and dinner Monday through Friday. Breakfast and weekend meals are light fare. Recreation rooms and laundry facilities are available for residents. Two head residents live in the facility. A student advisor is assigned to each floor.

Fees for the 2006-07 college year are as follows:*

Application Fee (nonrefundable)	\$ 25
Damage Deposit (refundable)	\$ 50
Room and Board - Residence Hall	
Double Room	\$ 2,038 per semester
.....	\$ 4,076 per academic year
Single Room	\$ 2,338 per semester
.....	\$ 4,676 per academic year
Apartments (per resident).....	\$ 2,338 per semester
.....6fa	4,676 per academic year

*These fees are subject to change.

All student housing is handicapped accessible.

Denial of Housing Privileges

NIACC reserves the right to deny Housing privileges to any student convicted of crimes such as, but not limited to theft, sexual assault, or drug possession, and students who have been suspended for disciplinary reasons at other colleges.

REGISTRATION AND RECORDS

ACADEMIC TRANSCRIPT

To request an academic transcript, NIACC requires written authorization from the student. Request forms are available in the Records Office. If a student is unable to fill out the form at the Records Office, he/she may write or fax (641-422-4150) the Records Office to request a transcript. Transcripts of work completed at other schools are not available for redistribution by NIACC. A student may obtain his/her official NIACC transcript at no charge; however, if five (5) or more are requested at one time, there will be a \$ 2.00 charge per transcript.

CHANGES IN REGISTRATION

Changes in Registration

Students should plan their academic programs carefully so that subsequent changes may be kept to a minimum. When necessary, changes may be made by consulting with a counselor or advisor.

FAILURE TO ATTEND CLASS, ONCE REGISTERED, DOES NOT CANCEL REGISTRATION IN ANY CLASS OR CLASSES.

Failure to change registration except according to the above procedure will result in a grade of "F" recorded on the permanent record of that student.

A notation of "W" (withdraw) will be made on the student's permanent record if he/she officially withdraws prior to the published withdrawal date on the college calendar.

Adding/Dropping Course(s)

Adding a Course: Students who wish to add a course to their schedule must consult with a counselor or advisor. This must be completed within the first five days of scheduled classes or before the second meeting of an evening class.

Dropping a Course: Students who wish to drop a course must consult with a counselor or advisor. The last day to drop a course will be the two-thirds point of the term.

Withdrawal from College

A student who finds it necessary to withdraw from college before the end of the regular term should complete a student withdrawal form with assistance from a counselor/advisor and submit to the Record's Office. The last day for total withdrawal from all classes will be the two-thirds point of the term. Failure to do so may result in the issuance of failing grades in all subjects for which the student is registered. If it is impossible for the student to come to the College to withdraw, this may be done by mail and must include the student's last day of attendance.

IT SHOULD BE NOTED THAT REFUNDS (WHERE APPLICABLE) ARE BASED UPON THE DATE OF OFFICIAL WITHDRAWAL, NOT UPON THE LAST DATE OF CLASS ATTENDANCE.

Withdrawal from College cancels registration in all classes. There is no credit given for partial course work.

CLASSIFICATION OF STUDENTS

Freshmen - a student who has earned less than 27 semester hours of credit toward the completion of an associate degree; a student enrolled in a one-year career program or certificate program; or a student who has not yet enrolled in the second year of a program.

Sophomore - a student who has earned 27 or more semester hours toward the completion of an associate degree; or a student enrolled in the second year of a program.

Full-time - a student registered for 12 or more semester credits.

Part-time - a student registered for 11 or fewer semester credits.

Students shall also be classified as resident (in-state) or nonresident (out-of-state).

CREDITS AND GRADING

1. STUDENTS FROM ACCREDITED COLLEGES AND UNIVERSITIES

Credit will be granted for courses taken at colleges or universities accredited by The Higher Learning Commission of the North Central Association or similar regional associations. Each student shall submit an official transcript to the Registrar's Office bearing the original seal of records from each college or university the student has previously attended. Generally, credit will be awarded for courses in which the student has earned a grade of C or better.

2. STUDENTS FROM NONACCREDITED COLLEGES

NIACC may recognize credit from a nonaccredited college or may admit the applicant on a provisional basis and provide a means for the validation of some or all of the credit. The validation period shall not be less than one semester and will ordinarily be a full academic year. NIACC will specify to the student the terms of the validation process at the time of provisional admission. The Registrar will evaluate the transfer credits.

3. TRADE/TECHNICAL CREDIT

Generally, NIACC does not recognize credit from a trade or technical college.

4. ACCEPTANCE OF CREDIT

a. Acceptance of credit by NIACC does not guarantee acceptance at other colleges.

b. Accepted transfer credit will be entered on the NIACC academic record after the student has completed course work at NIACC.

5. ARMED SERVICES CREDIT

Credit may be granted for valid educational experiences received in the Armed Forces. Credit will be considered on the same basis as that followed in accepting transfer credit. A Guide to the Evaluation of Education Experiences in the Armed Forces will be used to aid in evaluation. NIACC uses the course evaluation/recommendation provided by American Council on Education (ACE). For further information, contact the Registrar's Office in Student Services.

Class Attendance

Because regular class attendance contributes to successful course completion, students are expected to attend every class. Instructors publish and distribute attendance policy statements during the first class meeting. Students are responsible for knowing and following those policies.

Grading

The quality of your work is evaluated by the grades you receive. They are a measure of your learning experience. Grades are also the basis for transfer to another college. Generally, a student is not considered admissible by a four-year college without at least a cumulative grade point average of 2.00. To achieve your academic goal, it is important that you develop good study habits at the beginning of your enrollment at NIACC.

<u>Grade</u>	<u>Grade Points</u>
A.....	4.00
A-.....	3.67
B+.....	3.33
B.....	3.00
B-.....	2.67
C+.....	2.33
C.....	2.00
C-.....	1.67
D+.....	1.33
D.....	1.00
D-.....	.67
F.....	.00

I - The incomplete grade "I" is used when the instructor believes there is a reasonable chance the student can and will make up the work within a reasonable time frame and the student has been doing satisfactory work in class. An incomplete grade, if not made up within the instructor guidelines, will become an "F" or "Q".

W - The letter "W" will be given when a student officially withdraws from class(es).

Other Symbols:

X - Course repeated

N - Audit

T - Credit granted by examination (test out)

L - Credit granted for experiential learning

Q - No credit/no pass (used in pass/no pass courses only)

O - Grade requital (to be used only when Fresh Start is granted)

P - Credit earned/pass

Policy for Grades Earned in Repeated Courses

Grades earned in courses which have been repeated will be administered and interpreted according to the following guidelines:

1. Grades earned in all registrations will be recorded on the permanent transcript.
2. In computing the cumulative grade point average for graduation, only the most recent grade earned in a course which has been repeated will be used.
3. For purposes of satisfying a prerequisite, the most recent grade earned in a course will be used.

Grade Point Average

The grade point average is determined in the following manner:

1. Multiply the number of grade points equivalent to the letter grade received in each course by the number of credit hours attempted for the course to arrive at the quality points earned in each course.
2. Divide the sum of quality points by the total number of credit hours attempted. The quotient represents the grade point average (GPA) for the term.

The cumulative grade average is determined in the same manner as the grade point average, except that all of the student's work at the college is taken into account. Note: Developmental courses are not used in calculating the cumulative grade point average for graduation and transfer courses are not included in the cumulative grade point average.

Grades and Reports

Midterm reports covering the work for the first half of each term will be available to all students. These reports are not recorded on the student's permanent record. Official reports showing final grades will be issued to all students at the close of the term and these will be recorded on the student's permanent record.

HONORS PROGRAM

New students are invited to participate in the Honors program if they have an ACT score of at least 24 or an equivalent score on other standardized tests taken within the previous three years. Additionally, new students must meet at least one of the following criteria: Trustees Scholarship recipient, class rank in the upper ten percent of their high school graduating class, or possess a high school grade point of 3.50 on a 4.00 scale. However, NIACC freshman who did not attain the above criteria in high school, but who are demonstrating exceptional work in their college classes may apply directly to the program or be nominated by a member of the faculty.

Students in the Honors program complete academic contracts in five general education areas. A sophomore project may be substituted for one of these contracts. These contracts consist of academic work above and beyond the normal curriculum of the course. Whenever possible, students will be encouraged to relate Honors work on contracts to their academic interests, even in courses not directly related to the student's major or vocational choice. By completing these contracts, maintaining a 3.50 grade point, and graduating from NIACC, Honors students may earn up to \$ 1,000 in Ambassador Scholarship money to be used where the student is continuing his or her education. In addition, Honors Students may receive Honors Course Designation on their NIACC transcript, may register early for classes, may participate freely in cultural events, and may receive special recognition by the college and four-year schools to which the student may transfer.

CREDIT BY EXAMINATIONS

1. PROFICIENCY EXAMINATION: Examinations are available for individual courses allowing students the chance to test out of courses in certain programs with permission of the faculty responsible for teaching the course.

2. **ADVANCED PLACEMENT PROGRAM:** High School students may earn credit through the Advanced Placement Program. Students must achieve scores of 3, 4, or 5 in order to qualify. Individual divisions may require additional documentation.

3. **COLLEGE LEVEL EXAMINATION PROGRAM (CLEP):** CLEP is a means of gaining credit through examination.

CLEP has two forms. General examinations measure college level achievement in the basic areas usually covered in the first two years of college. These areas are considered the general or liberal education requirements.

The second form is the Subject Examination. These measure achievement in specific college courses and are used to grant exemption from the credit for these courses.

CLEP tests are administered by appointment on the NIACC campus. A maximum of 30 semester hours of credit are allowed for CLEP General Examinations or a combination of General and Subject Examinations.

CLEP credit will not be awarded for courses already successfully completed. Accepted credit will be entered on the NIACC academic record after the student has completed course work at NIACC.

DEGREE REQUIREMENTS

Associate Degrees

Associate in Arts

Purposes of the degree:

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 include:

1. Completion of at least sixty (60) semester hours of work consisting of courses whose principal design is for a baccalaureate program. Up to 16 semester hours of career courses can be used as elective credit. Developmental courses cannot be used to meet this requirement.
2. One-half of the required semester hours must be completed under the aegis of North Iowa Area Community College including 15 of the last 30 semester hours.
3. A minimum overall cumulative grade point average of 2.00 (C) including a 2.00 (C) cumulative grade point average in all course work at NIACC. Developmental courses are not used in calculating the cumulative grade point average for graduation.

4. Completion of the following General Education Core with a minimum of 40 semester hours:

Communication 8 s.h.

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

Social Sciences 8 s.h.

Humanities 8 s.h.

Performance courses such as vocal and instrumental music may satisfy no more than four hours of this requirement.

Natural Science/Mathematics* 8 s.h.
(including at least one math and at least one science course)

Distributed Requirement 8 s.h.
(to be taken from among the four divisions above)

*It is recommended that students take a minimum of four semester hours of laboratory science.

5. Completion of the Academic Profile examination during the student's final semester prior to graduation.

Associate in Science

The purpose of the Associate in Science degree is to provide a degree goal for students who choose to follow a Natural Science degree program.

Requirements for the degree include:

1. Completion of at least sixty (60) semester hours of work consisting of courses whose principal design is for a baccalaureate program. Up to 16 semester hours of career courses can be used as elective credit. Developmental courses cannot be used to meet this requirement.
2. One-half of the required semester hours must be completed under the aegis of North Iowa Area Community College including 15 of the last 30 semester hours.
3. A minimum overall cumulative grade point average of 2.00 (C) including a 2.00 (C) cumulative grade point average in all course work at NIACC. Developmental courses are not used in calculating the cumulative grade point average for graduation.
4. Completion of the following General Education Core with a minimum of 37 semester hours:

Communication 8 s.h.

Social Sciences/Humanities 9 s.h.

Natural Science/Mathematics 20 s.h.
(must include at least one math and at least one science course)

5. Completion of the Academic Profile examination during the student's final semester prior to graduation.

Associate in Science (Business)

The purpose of the Associate in Science (Business) degree is to provide a degree goal for students who choose to follow a course of study designed to give the student the option of obtaining employment in business or transferring to a four-year institution. Students who know they wish to pursue a four-year degree and want to meet general education requirements of transfer institutions should pursue the A.A. Degree.

Requirements for the degree include:

1. Completion of at least sixty (60) semester hours of work consisting of courses whose principal design is for a baccalaureate program. Up to 16 semester hours of career courses can be used as elective credit. Developmental courses cannot be used to meet this requirement.
2. One-half of the required semester hours must be completed under the aegis of North Iowa Area Community College including 15 of the last 30 semester hours.
3. A minimum overall cumulative grade point average of 2.00 (C) including a 2.00 (C) cumulative grade point average in all course work at NIACC. Developmental courses are not used in calculating the cumulative grade point average for graduation.
4. Completion of a minimum of 30 semester hours in designated business courses. See pages 128-129 for a list of courses.
5. Completion of the following General Education Core:

Communication 8 s.h.
This requirement can be satisfied by baccalaureate-oriented communication or speech courses with a minimum of two courses in English Composition.

Social Sciences and/or Humanities 9 s.h.

Natural Science/Mathematics 3 s.h.

6. Completion of the Academic Profile examination during the student's final semester prior to graduation.

Associate in Applied Science

Purposes of the degree include:

1. Provide a degree goal for students who choose to follow a course of study which is specifically designed to lead to employment upon completion of two years of study.
2. Provide the student with an entry skill level appropriate to the career for which he/she has been preparing.
3. Provide the student with general education skills: communication, social science and/or humanities, and math and/or science.

Requirements for the degree include:

1. Completion of at least sixty (60) semester hours of a prescribed two-year career curriculum. Developmental courses cannot be used to meet this requirement.
2. One-half of the required semester hours must be completed under the aegis of North Iowa Area Community College including 15 of the last 30 semester hours, unless specified otherwise by a program's accrediting agency.
3. A minimum overall cumulative grade point average of 2.00 (C) including a 2.00 (C) cumulative grade point average in all course work at NIACC. Developmental courses are not used in calculating the cumulative grade point average for graduation.
4. Completion of a general education core of at least 12 semester hours.
5. Completion of the Academic Profile examination during the student's final semester prior to graduation.

Associate in General Studies

Purposes of the degree include:

1. Provide a degree goal for students who choose to follow an individualized course of study which is not specifically designed for transfer to a baccalaureate degree program.
2. Provide an attainable associate degree for students who complete career programs of less than two years duration.
3. Provide an associate degree for career education students who wish to enroll in selected courses to reach a personal career objective.
4. Provide a degree goal for students whose educational goals shift after initial commitment has been made.
5. Provide a flexible associate degree for students who attend college on a part-time or other nontraditional basis.

Requirements for the degree include:

1. Completion of at least sixty (60) semester hours of work designed to meet the personal or career goals of each individual student. Developmental courses cannot be used to meet this requirement.
2. One-half of the required semester hours must be completed under the aegis of North Iowa Area Community College including 15 of the last 30 semester hours.
3. A minimum overall cumulative grade point average of 2.00 (C) including a 2.00 (C) cumulative grade point average in all course work at NIACC. Developmental courses are not used in calculating the cumulative grade point average for graduation.

General Studies Diploma

The purpose of the diploma is to provide an achievement recognition:

1. For students who may choose to follow an individualized course of study which is not specifically designed for transfer to a degree program.
2. For career education students who wish to enroll in selected courses to reach a personal career objective.
3. For students who attend college on a part-time or other nontraditional basis.

Requirements for the diploma include:

1. Completion of at least thirty (30) semester hours of career courses designed to meet the personal or career goals of each individual student.
2. One-half of the required semester hours must be completed under the aegis of North Iowa Area Community College including 15 of the last 30 semester hours.
3. A minimum overall cumulative grade point average of 2.00 (C) including a 2.00 (C) cumulative grade point average in all course work at NIACC.

Diploma

Purposes of the diploma include:

1. Provide a diploma goal for students who choose to follow a course of study which is specifically designed to lead to employment.
2. Provide the student with an entry skill level appropriate to the career for which he/she has been preparing.

Requirements for the diploma include:

1. Completion of at least thirty (30) semester hours of credit including a minimum of 3 semester hours of general education credit.
2. A minimum overall cumulative grade point average of 2.00 (C) including a 2.00 (C) cumulative grade point average in all course work at NIACC. Developmental courses are not used in calculating the cumulative grade point average for graduation.

Certificates

Certificates of completion are awarded to indicate that a student has satisfactorily completed a program of instruction other than those indicated previously. Certificates are usually issued to students upon completion of a short-term program of study with a 2.00 (C) grade point average.

THE FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)**Directory Information**

According to the guidelines stated in the Family Educational Rights and Privacy Act of 1974, NIACC can release ONLY directory information on a student without the written consent of the student. NIACC defines directory information as the following:

1. Name
2. Address
3. E-mail Address
4. Telephone number
5. Date and place of birth
6. Field of study
7. Activities participation
8. Sports participation
9. Weight and height (for athletic teams)
10. Dates of attendance (full-time/part-time status)
11. Degrees and awards received
12. Prior educational institutions attended
13. Dean's list

Notification of Rights Under FERPA for Postsecondary Institutions

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They are:

1. *The right to inspect and review the student's education records within 45 days of the day the College receives a request for access.*

Students should submit to the Registrar, Vice President for Student Services, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The College official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the College official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. *The right to request the amendment of the student's education records that the student believes are inaccurate or misleading.*

Students may ask the College to amend a record that they believe is inaccurate or misleading. They should write the College official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

If the College decides not to amend the record as requested by the student, the College will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. *The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.*

One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the College in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the College has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

4. *The right to file a complaint with the U.S. Department of Education concerning alleged failures by North Iowa Area Community College to comply with the requirements of FERPA.* The name and address of the Office that administers FERPA is:

Family Policy Compliance Office
US Department of Education
600 Independence Avenue SW
Washington DC 20202-4605

Disclosure of Education Record Information

(Source: Guidelines for Postsecondary Institutions for Implementation of the Family Educational Rights and Privacy Act of 1974 as amended.)

1. Institutions shall obtain written consent from students before disclosing any personally identifiable information from their education records (with the exceptions as noted in sections 2, 3, 4, and 5 below). Such written consent must:
 - a. Specify the records to be released,
 - b. State the purpose of the disclosure,
 - c. Identify the party or class of parties to whom disclosure may be made, and
 - d. Be signed and dated by the student.

NORTH IOWA AREA COMMUNITY COLLEGE HAS THE RIGHT TO DISCLOSE INFORMATION FROM STUDENT EDUCATIONAL RECORDS IF THEY CHOOSE WITHOUT WRITTEN AUTHORIZATION FROM THE STUDENT ACCORDING TO THE FOLLOWING GUIDELINES:

2. Must disclose education records or components thereof without written consent to students who request information from their own records.
3. Institutions may disclose education records or components thereof without written consent of students to:
 - a. authorized representatives of the following for audit or evaluation of Federal- and State-supported programs, or for enforcement of or compliance with Federal legal

requirements which relate to those programs (see 34 CFR 99.35 for additional conditions that must be met):

- i. the Comptroller General of the United States,
 - ii. the Secretary of the Department of Education,
 - iii. state educational authorities.
- b. state and local officials to whom disclosure is specifically required by State Statute adopted prior to November 19, 1974.
 - c. Veterans Administration officials (not covered by FERPA but specified under Title 38, Section 1790 (c), United States Code; see appendix 7).
 - d. other school officials within the institution determined by the institution to have a legitimate educational interest (see chapter 5.3).
 - e. officials of other institutions in which a student seeks or intends to enroll on the condition that the issuing institution makes a reasonable attempt to inform the student of the disclosure unless the student initiates the transfer, or the written policy of the institution (discussed earlier) includes a notice that the institution forwards education records to other institutions that have requested the records in which the student seeks or intends to enroll (see 34 CFR 99.34 for additional conditions that must be met).
 - f. or organizations providing financial aid to students, or determining financial aid decisions concerning eligibility, amount, condition, and enforcement of terms of said aid.
 - g. organizations conducting studies for, or on behalf of, educational agencies or institutions to develop, validate, and administer predictive tests, to administer student aid programs or to improve instruction. Those organizations may not disclose personally identifiable information on students, and information secured must be destroyed when no longer needed for their projects. Institutions are advised to obtain such assurance in writing.
 - h. accrediting organizations carrying out their accrediting functions.
 - i. parents of a student who have established that student's status as a dependent according to Internal Revenue Code of 1954, Section 152 (see appendix 7 and chapter 5.4). (Institutions are not required to disclose information under this guideline and NIACC may chose not to disclose.)
 - j. persons in compliance with a judicial order or a lawfully issued subpoena, provided that the institution makes a reasonable attempt to notify the student in advance of compliance (see chapter 6.26.7 and appendix 15). NOTE: The institution is not required to notify the student if a federal grand jury subpoena, or any other subpoena issued for a law enforcement purpose, orders the institution not to disclose the existence or contents of the subpoena.

- k. persons in an emergency, if the knowledge of information, in fact, is necessary to protect the health or safety of students or other persons. (According to 34 CFR 99.36, the wording of this section "shall be strictly construed.")
 - l. an alleged victim of any crime of violence (as that term is defined in 18 U.S.C. 16) of the results of any institutional disciplinary proceeding against the alleged perpetrator of that crime with respect to that crime.
4. Institutions may release without written consent those items specified as public or Directory Information for students who are currently enrolled, provided the following conditions are met prior to disclosure:
 - a. that the institution inform the students of information or categories designated as public or Directory Information,
 - b. that students be given the opportunity to refuse disclosures of information for any or all categories of directory information, and
 - c. that the students be given a reasonable period of time in which to state such refusals in writing.
 5. Institutions may release without written consent those items designated as public or Directory Information on any student not currently enrolled unless that student, at his/her last opportunity as a student, requested otherwise.
 6. Institutions may also disclose personally identifiable information from a student's education records to a third party if the eligible student has signed and dated a written consent form which is presented to a school official by the third party.

GRADUATION

Application for Graduation

Students who plan to receive a degree or diploma must file an Application for Graduation form with the Registrar at the beginning of the semester prior to completion of college work.

The North Iowa Area Community College grants associate degrees, diplomas and certificates to certify the successful completion of programs of study.

Students must satisfy the graduation requirements in effect during the term of graduation or they may elect to graduate under requirements stated in the catalog at the time of initial entry if they have been continuously enrolled. (Continuous enrollment is defined as consecutive fall and spring semesters.) However, the General Education core status for courses will be determined by the status of the course during the term it was taken. Under certain unusual circumstances students may appeal for an exception to graduation requirements to the Academic Affairs Council through the Vice President for Student Services. This appeal must be made prior to the start of the term in which graduation is expected to occur.

Acceptance of transfer credit by NIACC toward a degree does not guarantee acceptance at other colleges.

Graduation

Commencement exercises are designed to provide formal recognition to students who have satisfied the requirements for an associate degree or diploma. Since only one ceremony is held each year in May, students completing requirements prior to that commencement or at the end of the summer term following commencement may participate in the May ceremony or may elect to receive the degree or diploma at the time of completion of requirements.

Attendance at the Commencement Ceremony is one of the requirements for receiving a degree or diploma from North Iowa Area Community College. Students who are unable to attend commencement exercises must make application to the Registrar to graduate in absentia. Such application must be made at least 30 days prior to the exercises. Midyear graduates will have the opportunity to respond by mail if they intend to participate in the graduation ceremony.

Dean's List

Full-time students who register and complete 12 or more graded credit hours with a 3.25 or better grade point average on graded credits during the Fall or Spring terms are qualified to be placed on the Dean's Honor List as published by the Registrar.

Part-time students who register and complete 6 to 11.5 graded credit hours with a 3.25 or better grade point average during the Fall or Spring terms are qualified to be placed on the Dean's Honor List as published by the Registrar.

Developmental courses are not used in calculating the cumulative grade point average for the Dean's List.

Students who change their status from full-time to part-time during the term would not qualify for the part-time Dean's List as the requirements are that the student maintain the same status as initial registration.

Graduation Honors

A minimum of 30 semester hours of NIACC graded credit must be earned for degree honor recognition and a minimum of 15 semester hours of NIACC graded credit must be earned for diploma honor recognition. A student having earned an overall grade point average of 3.50 or more from NIACC will be graduated WITH HIGHEST HONORS. A student having earned an overall grade point average of 3.25 - 3.49 from NIACC will be graduated WITH HONORS. Transfer credits and developmental course credits are not used in the calculation of grade point average for graduation with honors.

Hall of Fame

Students completing an associate degree at North Iowa Area Community College with a scholastic record of all A's on graded credits will be admitted to the Hall of Fame. Members are recognized by having their names displayed on the hall of fame plaque in the Administration Building, and listed in the commencement program.

Developmental courses are not used in calculating the cumulative grade point average for the Dean's List.

Disclosure of Graduation Rates

Graduation rates for our students are available in the Registrar's Office. Graduation rates for our student athletes by sport are available in the Athletic Director's Office, Vice President for Student Services' Office, or from the coaches.

Retention of Student Records

The official academic records of enrollment for credit earned by a student at North Iowa Area Community College shall be retained in perpetuity.

All student records, documents which are used to create, update, and support the accuracy of the official academic transcript, shall be retained for at least ten (10) years after a student's last enrollment. These documents may then be destroyed in the manner most appropriate.

All student financial aid records will be retained at least three (3) years following the end of the fiscal year for which funds were awarded.

All student cumulative folders which include the student's high school transcript and other academic information shall be retained for at least three (3) years after the student's last enrollment.

All veterans' records will be retained at least three (3) years following the ending date of their last enrollment.

Placement records (competency profiles) used to assist students and graduates in securing employment will be retained three (3) years from date of graduation.

PAYMENT PLANS/POLICIESOne Payment Plan Per Semester

Pay each semester's charges in full. Fall semester bill will be sent in July and is due in full August 14, 2006. Spring semester bill will be sent in December and is due in full January 3, 2007.

FACTS Payment Plan

Pay each semester's charges in monthly installments. Fall semester's bill will be sent in July and Spring semester's bill will be sent in December with equal payments due per FACTS agreement choice. A \$ 25 per semester fee is charged to participate in the FACTS payment plan.

Failure to Pay

Failure to make payment (or file for financial aid) prior to the beginning of the semester may result in cancellation of your schedule (August 14 for the Fall Term and January 3 for the Spring Term). Reinstatement is possible when payment is made and if the courses are still available. If no payment has been made either directly or through Financial Aid, you are subject to administrative withdrawal, and if residing on campus, dismissal from NIACC student housing.

If the student chooses not to attend or is unable to attend College, he/she must notify the Records Office in writing prior to the term start date. The student is held liable for tuition and fee charges should he/she fail to notify the Records Office in writing prior to the term start date.

All financial obligations must be cleared before 1) a student will be allowed to register for a subsequent term; 2) the student's academic transcript will be released.

Making Payment Online

NIACC accepts online credit card payments through e-Cashier on the FACTS plan. You may pay online using Mastercard, Visa, Discover, or Automatic Bank Payment (ACH).

To use this payment option, please start at the NIACC home page: www.NIACC.edu, choose the e-Cashier link, and complete the 7-step process. This may be used for the FACTS payment plan or a one-time payment in full.

REGISTRATION PROCESSRegistration

Registration consists of: (1) student selecting appropriate courses, (2) program planning with an academic advisor, and (3) payment of tuition and fees to the college or completion of a college payment agreement filed with the Business Office. All steps must be taken before registration is complete.

Course schedules each term are available in the Student Services Office as soon as they are released by the Office of the Vice President for Academic Affairs.

Registration information for credit courses is also included in the Adult and Continuing Education Bulletin mailed to all households in the NIACC area in August and December. For further information please call the Admissions Office at 1(888) GO NIACC, Ext. 4245.

Wait List Policy

If a student is placed on a course wait list by the Records Office at the time of their registration, they will remain on the wait list until one week prior to the start of the term. If an opening does occur, the first person on the wait list will automatically be entered into the course. A new schedule and billing statement reflecting the change will be sent to the student. All wait lists will be dropped one week prior to the start of the term. It will be the responsibility of the student, if still interested in enrolling in a class that was previously closed, to inquire at the Records Office as to the status of the class.

Auditing a Class

Students who wish to audit classes may do so on a space-available basis after classes begin with instructor approval. The student must meet the attendance requirements in a course but is not required to complete assignments, take examinations, or meet other class requirements. The charge for an audited class is one-half tuition cost per semester.

RESIDENCY POLICY GUIDELINESReclassification of Non-resident Status

In determining resident or non-resident classification, the primary determination is the reason a person is in the state of Iowa. If a person is in the state primarily for educational purposes, that person will be considered a non-resident. The burden of establishing the reason a person is in Iowa for other than educational purposes

rests with the student. The second determination will be the length of time a person has resided in Iowa. An individual must document residing in the state of Iowa for at least 90 days prior to the academic term for which residency status is sought.

Procedure

1. Students shall complete the "Application for Resident Classification" form.
2. Students shall submit the "Application for Resident Classification" form to the Office of the Registrar prior to registering for the academic term for which residency status is sought.
3. Students requesting residency status shall submit documentary evidence of an established domicile within the State of Iowa for at least 90 days prior to the academic term for which residency status is sought.

In addition, the student shall submit any two of the following:

- a. An Iowa driver's license
 - b. An Iowa vehicle registration
 - c. Evidence of ownership of Iowa property
 - d. An Iowa income tax return
 - e. A voter's registration card for the State of Iowa (by county)
 - f. Other similar evidence
4. Copies of the documentary evidence shall be attached to the "Application for Resident Classification" form.

Students will be notified as to the approval or denial of their request for residency status by the Office of the Registrar prior to enrollment in the term for which residency status is sought.

The "Application for Resident Classification" form and documentary evidence shall be filed in the Records Office.

Students may appeal the denial of residency status to the Vice President for Student Services whose administrative decision shall be final.

Classification of residency status may be obtained by students who are not of majority age (at the time of application) through evidence submitted by the student's parent(s) or legal guardian(s).

Reclassification of residency status is not retroactive. International students cannot establish residency while studying in this country on a temporary visa.

TITLE IV FINANCIAL AID RECIPIENTS

REFUND AND REPAYMENT POLICY

The refund schedule for recipients of Title IV Financial Aid will be calculated in accordance with Public Law 105-244, The Higher Education Amendments of 1998.

The law requires that if a student receives financial aid and withdraws from school during the payment period or period of enrollment in which the recipient began attendance, the school must calculate the amount of SFA Program assistance the student did not earn and those funds must be returned.

- Recalculation is based on the percent of earned aid using the following formula:

- Percent earned = Number of days completed up to the withdrawal date*/total days in the semester.

- Federal financial aid is returned to the federal government based on the percent of unearned aid using the following formula:

- Aid to be returned = (100% - percent earned) X the amount of aid disbursed toward institutional charges.

Institutions are required to return SFA funds on behalf of recipients in the following order:

1. Unsubsidized Federal Stafford Loans
2. Subsidized Federal Stafford Loans
3. Unsubsidized Federal Direct Stafford Loans
4. Subsidized Federal Direct Stafford Loans
5. Federal Perkins Loans
6. Federal PLUS Loans
7. Direct PLUS Loans
8. Federal Pell Grant
9. Federal SEOG
10. Other Title IV Assistance

In determining the amount of funds the student must return, the formula is as follows: Amount of Unearned Title IV Aid - School's Responsibility = Student's Responsibility.

Students must return funds in the following order:

1. Unsubsidized Federal Stafford Loans*
2. Subsidized Federal Stafford Loans*
3. Unsubsidized Direct Stafford Loans*
4. Subsidized Direct Stafford Loans*
5. Perkins Loans*
6. Federal PLUS Loans*
7. Direct PLUS Loans*
8. Federal Pell Grant x 50%
9. Federal SEOG x 50%
10. Other Title IV Assistance

* In accordance with terms of promissory note.

When aid is returned, the student may owe a bill to NIACC. The student should contact the Business Office to make payment arrangements.

Examples of Title IV Refund Policy

Example #1:

Student withdraws on the 25th day after the start of the semester which is 109 days long, student earns 22.93% of his/her federal aid. 77.07% of federal aid is considered to be unearned. The unearned amount must be repaid to loan and/or grant programs.

Student received a Pell grant of \$ 1500 for the semester and is charged \$ 1000 for tuition and fees. On the 21st day, the student received a cash refund of \$ 500 for Pell grant that exceeded his/her cost. On the 25th day, the student officially withdraws from all classes.

\$ 1000 X 22.93% = \$ 229.30, the amount the college can apply to charges.

\$ 1000 X 77.07% = \$ 770.70, the amount the college must return to the federal government.

According to NIACC's Tuition Refund policy, the student is not entitled to a refund of charges.

Charges.....	\$ 1000.00
Earned aid.....	<u>-343.95</u>
Adjusted balance due.....	\$ 656.05

Pell cash refund unearned = \$ 385.35 of which the student must return 50% or \$ 192.68.

Total amount student will owe = \$ 848.73 (\$ 656 to NIACC for uncovered tuition and fees and \$ 192 of unearned cash refund to the U.S. Department of Education.

Example #2:

Student stops attending all classes and fails to notify the Registrar's Office. When the college determined that the student ceased attending all classes, NIACC asks instructors for the last date of attendance. When this documentation is gathered, NIACC will use this date as the student's unofficial date of withdrawal, if it is later than the 50% point of the semester. Assuming that the 50% point is used, the student will have earned 50% of his/her aid and the other 50% is considered unearned and must be repaid to the loan and/or grant programs.

The student received a Pell grant of \$ 1500 for the semester and was charged \$ 1000 for tuition and fees. On the 25th day he/she received a cash refund of \$ 500 for Pell grant that exceeded their cost. The student stopped attending all classes but did not officially withdraw.

\$ 1000 x 50% = \$ 500, the amount the college can apply to charges.

\$ 1000 x 50% = \$ 500, the amount the college must return to the federal government.

According to the NIACC Tuition Refund policy, the student is not entitled to a refund of charges.

Charges.....	\$ 1000
Earned aid.....	<u>-500</u>

Adjusted balance due.....\$ 500
 Pell cash refund unearned = \$ 250. Student must repay one-half of this amount or \$ 125.

Total amount the student will owe = \$ 625 (\$ 500 to NIACC for uncovered tuition and fees and \$ 125 of unearned cash refund to the U.S. Department of Education.)

If a student owes a repayment of grants to the U.S. Department of Education, they will remain ineligible for federal aid until they resolve their repayment. Students will have an opportunity to resolve the overpayment by contacting the NIACC Business Office within 45 days of receiving notice and making payment arrangements.

- In determining the withdrawal date of the student, NIACC's policy will be:
 - The date that the student began the withdrawal process by completing a Student Withdrawal Form with assistance from a counselor/advisor and submitting to the Records Office for withdrawal;
 - The date that student otherwise provided official notification to the school of the intent to withdraw; or
 - If the student did not begin the withdrawal process or otherwise notify the school of the intent to withdraw, the midpoint of the payment period for which the financial aid assistance was disbursed or a later date documented by the school.

If the school determines that a student did not begin the withdrawal process or otherwise notify the school of the intent to withdraw due to extenuating circumstances, the school may determine the appropriate withdrawal date.

TUITION AND FEES

Tuition

Tuition for attendance in any program is based upon two factors:

1. Number of credit hours for which the student enrolls.
2. Residency
 - a) Non-Iowa residents pay at the rate of 150 percent of the Iowa resident tuition rate.
 - b) Individuals 65 years of age and over pay one-half tuition and all fees.

The following tuition schedule is effective for all registrations occurring after June 30, 2005, and is subject to change or modification.

SEMESTER HOUR LOAD	IOWA RESIDENT TUITION	NON-IOWA RESIDENT TUITION
1	\$ 96.00	\$ 144.00
2	192.00	288.00
3	288.00	432.00
4	384.00	576.00
5	480.00	720.00
6	576.00	864.00
7	672.00	1,008.00
8	768.00	1,152.00
9	864.00	1,296.00
10	960.00	1,440.00
11	1,056.00	1,584.00
12	1,152.00	1,728.00
13	1,248.00	1,872.00
14	1,344.00	2,016.00
15	1,440.00	2,160.00
16	1,536.00	2,304.00
17	1,632.00	2,448.00
18	1,728.00	2,592.00
19	1,824.00	2,736.00
20*	1,920.00	2,880.00

*20 HOUR CAP ON TUITION AND FEES

Fees

SEMESTER HOUR LOAD	MATERIALS/ LAB & SUPPLIES FEE**	STUDENT ACTIVITIES FEE
1	\$ 9.00	\$ 2.80
2	18.00	5.60
3	27.00	8.40
4	36.00	11.20
5	45.00	14.00
6	54.00	16.80
7	63.00	19.60
8	72.00	22.40
9	81.00	25.20
10	90.00	28.00
11	99.00	30.80
12	108.00	33.60
13	117.00	36.40
14	126.00	39.20

15	135.00	42.00
16	144.00	44.80
17	153.00	47.60
18	162.00	50.40
19	171.00	53.20
20*	180.00	56.00

*20 HOUR CAP ON TUITION AND FEES

**Materials, Lab, and Supplies Fees support a variety of educational and student services programs.

Applied Music Fees

Piano, vocal, & instrumental.....\$ 100/course credit hour
THIS FEE IS IN ADDITION TO TUITION/FEES PER CREDIT HOUR

CISCO WAN Remote Access Course Fee\$ 1,068.80
THIS FEE IS IN ADDITION TO TUITION/FEES PER CREDIT HOUR

CISCO Support Course Fee\$ 1,068.80
THIS FEE IS IN ADDITION TO TUITION/FEES PER CREDIT HOUR

Real Estate Precicensure Fee\$ 161.60
THIS FEE IS IN ADDITION TO TUITION/FEES PER CREDIT HOUR

Other Fees

Transcript fee..... no charge

TUITION REFUND

Students who wish to cancel their registration must notify the Registrar's Office in writing before the first day of the term. Beginning the first day of the term, it will be necessary for students to formally withdraw (complete the necessary forms with a counselor/advisor and submit to the Records Office) to terminate their registration. Tuition/fee adjustments are made for withdrawals according to the following schedule:

16 Week Term Refund

1-5 Days of Term.....	100%
6-10 Days of Term.....	75%
11-15 Days of Term.....	50%
16-20 Days of Term.....	25%
After 20th Day.....	No Refund

(Days are defined as Monday through Friday, holidays excluded. Day count begins with the beginning date of the term.)

3 ½-Week Term/6-Week Term/

8-Week Term Refund

1-3 Days of Term.....	100%
4-5 Days of Term.....	75%
6-7 Days of Term.....	50%
8-9 Days of Term.....	25%
After 9 days.....	No Refund

(Days are defined as Monday through Friday, holidays excluded. Day count begins with the beginning date of the term.)

The same refund schedule will apply for individual courses that are dropped. The amount of refund will be the appropriate percentage between the tuition/fees charged for the new credit enrollment and the amount charged for the original credit enrollment.

THERE WILL BE NO REFUNDS FOR COURSES/ TERMS UNDER

3 ½ WEEKS IN LENGTH.

Students who are ordered to active military duty during an enrollment period will be provided the following three options:

1. Withdrawal and a 100% refund of tuition and fees.
2. Withdrawal and credit the charges for the same number of semester hours toward a future term of enrollment. This option is only available after all applicable refund periods have expired and the student's account has been paid in full.
3. Accelerate the course and earn credit prior to departure for active military duty. Student must have instructor permission to use this option.

STUDENT SENATE AND CAMPUS-SPONSORED CLUBS AND ORGANIZATIONS

Through the Student Activities Fee allocation, NIACC sponsors a wide variety of campus activities, student clubs and organizations, and resources. In addition to funding the Student Senate sponsored campus activities, student fees are allocated to athletics, student health services, intramurals, new student orientation, and clubs and organizations.

STUDENT SENATE

Student Senate is defined as a one-credit course designed to act as both the student governing body as well as the campus activities board. Senate is open to any student who wants to become involved.

After registering for the one-credit class, a senator becomes a voice for student concerns, participates on various decision-making committees, becomes a project leader for one of the Senate-sponsored activities (comedian, lecture, musician, dance, community service project, etc.), and helps as a student volunteer when called upon either for Senate or other departments.

A senator is eventually graded on his/her participation, leadership, and volunteering in the various activities sponsored by the Senate. In addition to representing the Senate as a leader on campus, each senator is able, based on his/her efforts, to travel to various leadership and development conferences.

The process by which the Student Activity Fees are allocated is conducted by the Student Senate through an outline of criteria established for the purpose of defining the groups as an approved club or organization, discussion of requested funds, and a three-fourths majority vote.

CAMPUS-SPONSORED CLUBS

Clubs are associated with an academic department, but membership is open to all students. Each club must have a constitution on file with the Student Senate.

Current Clubs	Related Academic Department	Advisor
Ag Club	Agriculture	Larry Eichmeier
Art Club	Art	Peggy Bang
Campus Crusade for Christ	Student Services	Brent Hamilton
Collegiate Entrepreneurs' Organization	Pappajohn Entrepreneurial Center	Tim Putnam
Defensive Tactics Club	Law Enforcement	Borden Plunkett
Disc Golf	Student Services	Charles Schroeder
Electric Car Club	Industrial	Kris Mandsager
Education Club	Education	Kacy Larson
Enlightened Learners	Student Services	Kay Long
Forum Club	Communications	Joe Davis
Math and Engineering Club	Mathematics	Kathy Rogotzke
Multicultural Student Union	Communications	Geri Schwarz
NetBytes	Information Technologies	Mary Mosiman
Nursing Club	Nursing	Laurie DeGroote
Physical Therapist Assistant Club	PTA	Susan Callanan
Phi Theta Kappa	Student Services	Jeff Platt
Polar Bear Club	Student Services	Borden Plunkett
Rodeo Club	Agriculture	Josh Byrnes
Ski and Snowboard Club	Student Services	Bruce McKee/John Brietzke
Student Environmental Affairs Club	Natural Science	Craig Zoellner
Tennis Club	Student Services	Jamie Zanio
Women in Technology	Information Technologies	Mary Mosiman

Each year a new budget is established. A club may request student activities funds for the following purposes:

1. Attendance of members and club advisors at conferences and workshops (Reasonable request for transportation, lodging, and registration. No meals provided for club members. Advisors may be reimbursed through their department or the club budget.)
2. Special events for members such as banquets, honor/induction ceremonies.
3. Educational/social programs sponsored by the club but open to the public (expenses such as speaker fees, refreshments, etc.)
4. Leadership development activities (for club members only).

Clubs are encouraged to organize fund-raising events to further their mission.

Ag Club

If you're interested in agriculture, the Ag Club is intended for you. Activities may include trips to Denver and Chicago, livestock sales, Ag career seminars, fund raisers, and state and national conferences.

Art Club

If you're interested in extracurricular art activities, welcome to the Art Club. Art majors are highly encouraged to participate in this club; however, you do not have to major in art to benefit. The Art Club seeks to develop greater interest in the visual arts on the NIACC campus and in North Iowa. Artist workshops, field trips, social events, business meetings, and student exhibits are organized monthly by members. An annual spring bus trip to the Art Institute of Chicago gives you an opportunity to view internationally recognized art. Cash awards to deserving students are sponsored by the Club during the annual Iowa Student Competition.

Campus Crusade for Christ

Campus Crusade for Christ's mission is to turn lost souls into Christ-centered laborers. Campus Crusade exists to help college students find their purpose in life, make healthy choices, know that true love transforms lives, and convey the answer to a hurting world around us. We will do that through large group topical and bible teachings, small group topical and bible studies, worship, prayer, service, fellowship, and outreach.

Collegiate Entrepreneurs' Organization

The Collegiate Entrepreneurs' Organization (CEO) chapter provides its members with opportunities to gain insights to new venture creation and the operation of a new enterprise. Activities include regular chapter meetings with guest speakers, attending CEO national conferences, and fund-raising activities. The CEO chapter is a member of the national CEO organization, and students from all academic areas are encouraged to become members.

Defensive Tactics Club

Club participation is restricted to students who plan on careers in law enforcement. The club meets/trains several times throughout the semester under the instruction of an ILEA certified defensive tactics instructor and police veteran; the year's training activities culminate with a weekend seminar conducted by a guest instructor, typically from the ILEA. The Club's mission is as follows: to explore, research, and learn police defensive tactics in a scientific and responsible format, which reduces and/or minimizes the risk of injury to the participants while enhancing and positively challenging the participants physically, mentally, and psychologically in a manner that will prove beneficial for the participants in their professional lives. Skills and concepts to which participants are exposed go as follows: 1) To expose and provide practice to skills and standard procedures students may need in their profession such as restraining and cuffing. 2) To introduce students to practical skills for surviving life-threatening altercations such as avoiding/neutralizing empty hand attacks, blunt weapons attacks, edged weapons attacks, and firearms retention. 3) To provide one or more opportunities for students to train with local law enforcement officers.

Disc Golf

The purpose of this club is to promote disc golf as a form of physical exercise and entertainment. It provides an opportunity for students to interact in a social and fun environment.

Education Club

The purpose of the Education Club is to introduce students to the profession of teaching through field trips, speakers, and social experiences with other future teachers. The club is open to all students regardless of their level of commitment to the profession.

Electric Car Club

The mission of the Electric Car Club is for students of interest in electric cars to participate and enjoy the designing, building, and competing of electric-powered vehicles in the Midwest. Students may participate in marketing techniques, convincing area businesses to contribute money or supplies toward the building of the car. Problem solving is a fun part of building and competing with electric cars. The pace is fast and the problems are sometimes very unique. Patience and open mindedness are the best tools for participation in the Electric Car Club.

Enlightened Learners

If you've been out of the educational system for some time, Enlightened Learners may help you feel more comfortable. Enlightened Learners are students 25 years of age and up who gather together to encourage each other, share success, solve problems, network, listen to speakers, plan projects, meet new friends, let off steam, cut red tape, and learn about the college system. You'll likely find strong support and friendships through this group which meets weekly for lunch.

Forum Club

If you like to debate, join other students and NIACC faculty in discussing current controversial topics such as the environment, politics, and social issues. The Forum Club sponsors a series of speakers throughout the year.

Math and Engineering Club

The Math and Engineering Club provides various opportunities for students (with a range of mathematical abilities) to take part in mathematical activities and events and to interact on a more informal basis with the faculty. Since the Math Club began in the Fall of 1997, members have competed during the national student math league competition, attended Mathematical Association of America (MAA) meetings, and planned Math Awareness Week activities.

Multicultural Student Union (MSU)

Explore cultural diversity through this organization. MSU strives to heighten awareness and knowledge of various cultures, combat racism in all its forms, and develop human potential in NIACC students. People of all races, ethnic, and religious backgrounds are encouraged to participate.

NetBytes

Open to all interested students, NetBytes provides opportunities for students to learn more about career possibilities and area businesses. Extracurricular activities are planned every year, including LAN parties, robotics contests, and field trips.

Nursing Club

Nursing students will benefit from the Nursing Club, which hosts a holiday mixer for freshmen and sophomore nursing students the last day of fall semester. You can also attend state conventions for national nursing associations to hear interesting speakers on pertinent topics.

Phi Theta Kappa

Expand your scholarship opportunities after NIACC by joining the College's Alpha Psi Beta Chapter of PTK, an international honor society that recognizes the academic accomplishments of students attending two-year colleges. To become a member, you must have a 3.5 GPA after completing 24 semester hours at NIACC and be enrolled in at least three semester hours of classes. P/Q classes cannot be used toward meeting this criteria.

Physical Therapist Assistant Club

The PTA Club is open to students interested in physical therapy. The Club promotes public awareness of physical therapy as well as professionalism and leadership among PTA students. Members meet monthly to plan physical therapy activities, volunteer activities, and social events.

Polar Bear Club

For a brisk, invigorating activity, join the Polar Bear Club; participation is open to all NIACC students who wish to participate in the Annual Polar Bear Swim at Clear Lake in early December. By participating, students help generate donations for charities such as Toys for Tots. Students typically meet one week before the swim to organize and then meet on the day of the swim.

Rodeo Club

The purpose of this club is to give students who have an interest in rodeo an identity. The club is a member of the Great Plains Region.

Ski and Snowboard Club

The NIACC Ski and Snowboard Club is an outdoor snow sports student organization. The club is open to all NIACC students to provide fun out-of-the-classroom activities in the winter. There is no cost to join. Winter outings include several weekend day trips to Minnesota ski resorts and a big trip each year to Colorado during spring break in March. It's great fun to go skiing or snowboarding with a group. Learn more about the NIACC Ski and Snowboard Club and fill out a membership application on the club web site at <http://staff.niacc.edu/skiclub/>.

Student Environmental Affairs Group

The Student Environmental Affairs Group is composed of students working with NIACC's Environmental Affairs Council to raise environmental awareness on campus. Members discuss environmental issues and make recommendations to encourage environment-friendly decisions and practices at NIACC.

Tennis Club

This club allows individuals to become active while playing the game of tennis for the pursuit of leisure and fitness.

CAMPUS-SPONSORED ORGANIZATIONS

Organizations are activities which are associated with academic departments and are designed to provide co-curricular opportunities for students with special interests and talents. Their activities are enjoyed by the entire student body.

Current Organization	Academic Department	Advisor
Cheerleading	Physical Education	Ryan McGuire
Collegiate Athletics	Physical Education	Ryan McGuire
Educational Programs	Student Services	Tyler Sisco
Intramurals	Physical Education	Athletic Office
Instrumental Music	Music	John Klemas
Logos	Journalism	Paul Peterson
Student Plays	Drama	Tim Slaven
Student Senate	Student Services	Tyler Sisco
Vocal Music	Music	Jayson Ryner

Each year every organization receives a 3% increase unless they submit a specific request.

Other student services/activities receiving Student Activities funding:

- Health Services
- New Student Orientation
- Pathways to Success

Dance Team

The NIACC Dance Team performs during halftime at basketball games and features routines developed by its members. The team has been well received by fans at the games and is a great way to promote school spirit.

Instrumental Music

You can actually join up to four ensembles right at NIACC — The North Iowa Concert Band, North Iowa Symphony Orchestra, NIACC Jazz Ensemble, and NIACC Pep Band. The Concert Band and Symphony Orchestra are composed of NIACC students and community members from North Iowa, and membership in the Orchestra and Jazz Ensemble are by audition only. Private lessons are also available.

Intramurals

The intramural sports program provides you an opportunity to participate in a sport of your choice on both a competitive and informal recreational basis. Activities may include basketball, free-throw contest, golf, one-on-one basketball, softball, flag football, volleyball, weight lifting, soccer, coed volleyball, card tournament, and more.

NIACC does not subscribe to an insurance program for intramural participants. Students who participate in any intramural event must assume their own responsibility for insurance coverage.

Logos

Explore your journalism talents, from reporting to photography to advertising sales through *Logos*, the student newspaper. Published by students, *Logos* is an award-winning publication released every other week. Working diligently on the paper will give you one semester hour of credit for each term you contribute. The paper's editors receive scholarships and often have an opportunity to participate in national newspaper conventions.

Vocal Music

If you like to sing, join the Concert Choir, which is open to all students, or sign up for private voice lessons. You might also try out for the NIACC Singers show choir, which performs locally and takes a major tour every other year to such places as Florida or Hawaii.



Staff



PRESIDENT

Michael Morrison, *President*; 1989
A.A., Austin Junior College; B.A., M.A., and Ph.D.,
University of Minnesota

Linda See, *Assistant to the President*; 1968
Graduate, Hamilton Business College; A.A., North Iowa Area
Community College; additional course work at Iowa State
University

ACADEMIC AFFAIRS

Mark Johnson, *Vice President for Academic Affairs*; 2004
B.A., University of Rochester; M.A. University of Chicago; Ed.D.
Pennsylvania State University

Ronda Smith, *Administrative Assistant*; 1995
Diploma, Spencer School of Business; A.A., North Iowa Area
Community College; additional course work at Mankato State
University and Buena Vista University

Marty Lundberg, *Evening Dean*; 1989
B.A., University of Iowa; M.S., Iowa State University;
additional course work at University of Northern Iowa, University of
Iowa, and Iowa State University

Academic Faculty

Agricultural Technology

Larry Eichmeier, *Division Chair, Agriculture*; 1982
A.A., North Iowa Area Community College; B.S. and M.S., Iowa
State University; additional course work at Iowa State University

Chris Chodur, *Herdsman/Farm Worker*; 1993
A.A.S., North Iowa Area Community College

Kevin Muhlenbruch, *CPAg, Agriculture Instructor*; 1988
B.S., Iowa State University

Business

Gary Christiansen, *Division Chair/Instructor, Business*; 1979
B.A. and M.A., University of Northern Iowa; additional course work
at University of Northern Iowa and Mankato State University

Wendy Demaray, *Business Division Associate*; 1991
Diploma, North Iowa Area Community College

Lynn Anderson, *Accounting, Computer Applications Instructor*;
1988
B.S., Mankato State University; M.A., University of Northern Iowa;
C.P.A., Inactive, Iowa Board of Accountancy; additional course
work at Mankato State University, Drake University, and University
of Iowa

Craig Callahan, *Information Systems Technology Instructor*; 2002
A.S., North Iowa Area Community College; A.S., Hamilton College,
B.A., Buena Vista University; M.Ed., Iowa State University; addi-
tional graduate work at University of Iowa

Michael Dirksen, **CCNP, CCDP**, *Information Technology Instructor*;
1988
B.A., Augustana College; B.S. and M.S., Mankato State University

Diane Frank, *Professional Administrative Services Program
Leader/Instructor*; 2003
B.A., University of Northern Iowa; M.A., Morningside College;
additional course work at Buena Vista University and University of
Northern Iowa

Keith Jaben, **CCAI**, *Information Technology Instructor*; 1999
Course work at Kirkwood Community College, Iowa State University,
and University of Iowa

Greg Lauer, *Accounting Program Leader/Instructor*, 1999
A.A., North Iowa Area Community College; Diploma, Hamilton
Business College; B.A., Upper Iowa University; M.S., Iowa State
University; E.A., Internal Revenue Service; additional course work
at University of Phoenix; Jones International University

Jeanne McCurnin, *Professional Administrative Services Program
Instructor*; 1990
B.S., Minnesota State University-Moorhead; additional course work
at University of Iowa and Morningside College

Laura Merfeld, *Marketing/Management Program Leader/Instructor/
Business Internship Coordinator*; 1990
A.A.S., North Iowa Area Community College; B.A., Buena Vista
University; M.S., Drake University

Steven Miller, *E-Commerce, Web Design and Development
Instructor*; 2002
B.S., St. Cloud State University; additional course work at Iowa
State University

Mary Mosiman, **CCNA, CCAI**, *Information Systems Technology
Program Leader/Instructor*; 1998
B.A., Buena Vista University; additional course work at George
Washington University

Tracy Purchase, **A+, MCP, MCDST**, *Technician Specialist
Instructor*; 2003
B.S., Capella University; additional course work at University of
Phoenix, University of Northern Iowa, Iowa State University, and
Keller Graduate School of Management

Alice Schamber, *Professional Administrative Services Program
Instructor*; 1972
A.A., Ellsworth Junior College; B.A., University of Northern Iowa;
M.A., University of Northern Colorado

Norb Thomes, *E-Commerce, Web Design, and Development
Instructor*; 2001
B.S., University of Wisconsin - LaCrosse; M.Ed., Iowa State
University

Linda "Toby" VanDenBosch, *Business/Medical Office Instructor*; 2005

A.A., North Iowa Area Community College; A.D.N., North Iowa Area Community College; B.S.N., University of Iowa; additional course work at Buena Vista University, Morningside College, and Drake University

Communication

John Groninga, *Division Chair, Communication; Instructor, Communication Skills and Elements of Writing*; 1985

B.S. and M.A., Iowa State University; additional course work at Iowa State University, University of Iowa, and University of Northern Iowa

Sally Becker, *Writing Lab Specialist*; 1975

Course work at North Iowa Area Community College

Diana Cameron, *Communication Skills*; 1997

B.A., Georgetown College; M.A., Tulane University; M.A., Comparative Literature, University of Chicago; additional course work at Iowa State University.

Joe Davis, *Communication Skills*; 2000

B.A., Mount Mercy College; M.A., Northern Michigan University; additional course work at Iowa State University

Nancy Fallis, *Reading and Education Media*; 1998

B.A. and M.A., University of Northern Iowa; additional course work at Mankato State University, University of Iowa, Drake University, and Indiana University

Mark Messer, *Composition*; 1988

B.A., Central College; M.A., University of Northern Iowa; additional course work at Iowa State University and Northwest Missouri State University

Paul Nagy, *Communication Skills*; 1972

B.A., Harpur College; M.A., (German) Schiller International University (Heidelberg); M.A. (TEFL) University of Northern Iowa; additional course work at State University of New York at Binghamton, State University College at Potsdam (New York), St. Lawrence University, State University College at Fredonia (New York), and Schiller College (Paris)

Paul Peterson, *Communication Skills/Journalism, Logos Advisor*; 1990

B.A. and M.E.A., University of Northern Iowa; additional course work at University of Iowa, University of Northern Iowa, and University of Minnesota

Borden Plunkett, *Communication Skills*; 1993

B.S., Southern Illinois University; M.S., Southern Illinois University

Karen Regal, *Communication Skills and Children's Literature*; 1991

B.A., Central College; M.A., Mankato State University; additional course work at University of Iowa, Drake University, Minnesota State - Mankato, University of Northern Iowa, Iowa State University, and Western Michigan-Kalamazoo

Geraldine Schwarz, *Reading and Literature*; 1986

B.A. and M.A., University of Northern Iowa; additional course work at University of Northern Iowa and University of Iowa

Arlo Stoltenberg, *Communication Skills, Literature*; 1967

B.A., Central College; M.A., Northeast Missouri State University; Ed.D., Nova University; additional course work at Drake University, University of Iowa, University of Northern Iowa, and Iowa State University

Health

Donna Orton, *Division Chair, Health*; 1977

B.A., Augustana College; R.N., M.S.N., University of Dubuque; additional course work at Iowa State University, University of Northern Iowa, University of South Dakota, Marycrest College, Drake University, and Morningside College

Terri Tell, *Office Assistant*; 1975

A.A., North Iowa Area Community College

Kristi Aschenbrenner, *Associate Degree Nursing*; 2005

B.S.N., Allen College; M.S.N., University of Phoenix

Susan Callanan, *Physical Therapist Assistant*; 2000

B.S., Iowa State University; D.P.T., Creighton University; additional course work at Iowa State University and University of Iowa

Laurie DeGroot, *Associate Degree Nursing*; 1988

A.A., North Iowa Area Community College; B.S.N., University of Iowa; M.S.N., Winona State University; Certified Clinical Nurse Specialist in Gerontological Nursing; A.R.N.P.; additional course work at University of Iowa and University of Northern Iowa

Shannon Dodd, *Associate Degree Nursing*; 2003

A.D.N., North Iowa Area Community College; B.S.N., University of Iowa; M.S.N., University of Iowa; additional course work at University of Iowa and Iowa State University

Jean Evenson, *Associate Degree Nursing*; 1985

R.N., B.S.N., University of Iowa; F.N.P., M.S.N., Mankato State University; additional course work at Iowa State University, University of Iowa, and Mankato State University

Nancy Frederick, *Associate Degree Nursing*; 1976

R.N., B.S.N., Mount Mercy College; M.S., Iowa State University; M.S.N., Clarkson College; additional course work at University of Iowa, University of Northern Iowa, and Marycrest College

Brandi Hiscocks, *Practical Nursing*; 2004

A.D.N., North Iowa Area Community College; B.S.N., Winona State University; additional course work at University of Northern Iowa

Julie Kolker, *Associate Degree Nursing*; 2004

A.D.N., North Iowa Area Community College; B.S., Iowa State University; additional course work at University of Iowa and Iowa State University

Suzanne Murphy, *Practical Nursing*; 2001

A.D.N., North Iowa Area Community College; B.S.N., University of Iowa; additional course work at University of Iowa and University of Northern Iowa; certified in Gerontology by American Nursing Credentialing Center

Carol Patnode, *Physical Therapist Assistant*; 1996

A.S., St. Mary's Junior College; P.T.A., B.A., Metropolitan State University; M.A., St. Mary's University of MN; additional course work at University of Iowa and University of Northern Iowa; Certified Weight Trainer: International Weight Training Association; Credentialed Clinical Instructor, American Physical Therapy Association

Deb Stockberger, *Medical Assistant Program Leader*; 1997

Diploma, Medical Assistant and A.D.N., North Iowa Area Community College; B.S.N., University of Iowa; M.S.N., University of Phoenix; additional course work at Morningside College, Drake University, and University of Iowa

Humanities and Social Science**John Schmalz**, *Division Chair, Humanities and Social Science; Instructor, Political Science/American History*; 1988

B.S., Minot State University; M.S., Southern Illinois University-Edwardsville; additional course work at Arizona State University, University of Nebraska, George Washington University, State University of New York at Stony Brook, University of Northern Iowa, Kearney State College, Wayne State College, Marycrest College, and Drake University

H. Wayne Allison, *Visual Arts/Gallery Director*; 2005

B.A., Graceland College; M.F.A., Syracuse University

Peggy Bang, *Visual Arts*; 1985

B.A., Iowa State University; M.S., Bank Street College of Education in cooperation with Parsons School of Design; additional course work at Iowa State University, University of Iowa, Marycrest College and School of Visual Arts

William (Bill) Basler, *Criminal Justice Instructor/Program Leader*; 2006

B.S., University of Northern Iowa

John Brietzke, *Economics*; 1980

B.S., University of Minnesota; M.B.A., University of Wisconsin; additional course work at University of Minnesota, University of Iowa, and Iowa State University

Patricia Crowe, *Psychology*; 1996

B.A., University of Northern Iowa; M.A., Bowling Green State University; additional course work at Bowling Green State University and University of Iowa

Helen Karamitros, *Sociology*; 1994

A.A., North Iowa Area Community College; B.A. and M.A., University of Northern Iowa, M.A., Mankato State University; additional course work at Keene State College, NH, University of Northern Iowa, Iowa State University, Drake University, and Capella University

John Klemas, *Instrumental Music Director*; 1987

B.M.E. and B.M., Drake University; M.A., Washington State University

Kacy Larson, *Education*; 1993

A.A., North Iowa Area Community College; B.A., University of Northern Iowa; M.S., Winona State University

Steven Long, *Sociology/Marriage and Family*; 1990

B.A. and M.A., University of South Dakota; additional course work at Kearney State College (Nebraska)

Joseph (Fred) McCurnin, *Economics*; 1990

B.A., Augustana College; M.A., University of South Dakota; additional course work at North Dakota State University and University of Pennsylvania

Jeffrey Pilz, *American History*; 1993

B.S., University of Wisconsin at Stevens Point; M.A. and Ph.D., University of Minnesota

Jeff Platt, *Psychology*; 1997

B.A., St. Ambrose University; M.S., Iowa State University; additional course work at Iowa State University, University of Iowa, and University of Northern Iowa

Jayson Ryner, *Vocal Music Instructor/Director*; 2001

A.A., North Iowa Area Community College; B.M.E., University of Northern Iowa; M.A., University of Northern Iowa; additional course work at University of Northern Iowa

Charles Schroeder, *Spanish*, 2000

B.A. and M.A., University of Northern Iowa; additional course work at Iowa State University

Timothy Slaven, *Speech and Theatre*; 1992

A.A., Iowa Central Community College; B.A. and M.A., University of Northern Iowa

Industrial**John Sjolinder**, *Division Chair/Trade and Industry Coordinator*; 2000

A.A.S., North Iowa Area Community College; B.S., Iowa State University; M.B.A., Iowa State University

Jennifer Patterson, *Murphy Manufacturing Technology Office Assistant*; 2000

A.A.S., North Iowa Area Community College; B.A., Buena Vista University

Gregory Arrowood, *Automotive Services Technology*; 1988

A.A., Iowa Lakes Community College; A.S.E. Certified Master Automobile Technician; additional course work at University of Iowa, University of Northern Iowa, and General Motors Training Center (Ankeny)

Tom Crowley, *Climate Control*; 1993

Electronics, Austin Vocational Technical Institute; additional course work at Iowa State University

Gary Eckholt, *Manufacturing Technology*; 1997

Two-year diploma in Tool and Die at Lake Area Vocational Technical School; CNC course work at Kirkwood Community College; twenty years of industrial experience.

Richard Grossen, *Tool and Die Technology*; 2001

Diploma and Associate Degree, Madison Area Technical College; B.S., University of Wisconsin-Stout; M.B.A., University of Wisconsin-Whitewater

Robert Heimbuch, *Automotive Services Technology*; 1999

A.A.S., North Iowa Area Community College, A.S.E. Certified Automobile Technician; additional course work at Iowa State University

Gary Loftis, *Automotive Maintenance*; 2000

Diploma, University Trade Schools

Jack Rohde, *Automotive Services Technology*; 2002

Certificate, Montcalm Community College

Clifford Salmons, *Electromechanical Systems Technology*; 1981

A.A.S., North Iowa Area Community College; B.A., University of Northern Iowa; M.Ed., Iowa State University; U.S. Navy Training Schools; White Motor Corporation Service Schools

Andrew Wermes, *Building Trades*; 1996

A.A., General Education, Golden West College; B.A., Industrial Arts, California State University; M.S.Ed., Drake University; Certificate of Completion of Apprenticeship in Carpentry, California Apprenticeship Council; Journeyman Carpentry Certificate, United Brotherhood of Carpenters & Joiners of America; Certificate in Using the Internet in Higher Education, Jones International University; Carpentry Instructor Certification, National Center for Construction Education & Research; OSHA Trainer Authorization, U.S. DOL OSHA Training Institute

Mathematics**Kathy Rogotzke**, *Division Chair/Instructor, Mathematics*; 1994

B.A., St. Olaf College; M.A., Iowa State University; additional course work at Iowa State University and Kansas State University

Allan Alcock, *Mathematics*; 2003

B.A., Wartburg College; M.A., Purdue University

David Bernemann, *Engineering/Mathematics*; 1999

B.S., University of Iowa; M.S., West Virginia University; additional course work at Iowa State University

Caroline Goodman, *Mathematics*; 1995

B.S., Purdue University; M.S., University of Illinois; additional course work at Portland State University and Iowa State University

Brent Hamilton, *Mathematics*; 1998

B.S., University of Dubuque; M.S., Iowa State University

Paul Hertzell, *Mathematics*; 1998

B.S., Mankato State University; M.S., Iowa State University

Rachel Lamp, *Mathematics*; 1990

B.A., Marycrest College; M.S., Iowa State University; additional course work at University of Iowa and St. Ambrose University

Natural Science**Patrick Galliard**, *Division Chair, Natural Science; Instructor, Biological Science*; 1993

B.S., Loras College; M.S. and Ph.D., Iowa State University; additional course work at University of Iowa, and University of Northern Iowa

Jody Fink, *Natural Science Associate*; 1985

A.S.B., North Iowa Area Community College

David Chyba, *Chemistry*; 2003

B.A., LaSalle University; M.A., University of Wisconsin - Madison; Ph.D., Bryn Mawr College; Postdoctoral Fellow, University of Zurich; additional course work at University of Wisconsin - Madison, Johns Hopkins University, and Iowa State University

Edward Dobrzynski, *Chemistry*; 1986

B.S., Villanova University; Ph.D., Iowa State University; NIH Postdoctoral Fellow, Johns Hopkins University

Jason Friday, *Biological Science*; 2003

B.A., University of Iowa; M.A., Quinnipiac University

Mark Kabele, *Natural Science Associate*, 1998

B.S., University of Wisconsin; additional course work at North Iowa Area Community College

Kristin Mandsager, *Physical Science*; 1992

B.A., St. Olaf College; M.A., University of Northern Iowa; additional course work at Iowa State University

Paul Pistek, *Biological Science*; 1996

B.S. and M.S., Iowa State University

Carol Schutte, *Biological Science*; 1987

B.S. and M.S., Iowa State University; additional course work at University of Illinois, St. Mary's College, University of Iowa, and University of Northern Iowa

Craig Zoellner, *Biological Science*; 1992

B.A., Wartburg College; M.A., University of Northern Iowa; additional course work at University of Iowa, Iowa State University, Carleton College, University of Illinois, and Northwest Missouri State

Continuing Education**John Schladweiler**, *Dean*; 1990

B.S., South Dakota State University; M.B.A., Mankato State University; additional course work at University of Iowa

Rita Foley, *Office Manager*; 1991

Course work at North Iowa Area Community College and Iowa State University

Cheryl Christians, *Office Assistant*; 1997
A.A., North Iowa Area Community College

Kathy Clemens, *Office Assistant*; 1993
Course work at Northwestern College

Pat O'Banion, *Office Assistant*; 1975
Diploma, Hamilton Business College; additional course work at North Iowa Area Community College, Breech Academy, and Mid-Continent Regional Training Center

Merlin Schafer, *Auditorium Technician*; 2002
A.S. and A.S.B., North Iowa Area Community College

Deb Smith, *Campus Facility/ICN Scheduler/Continuing Education Office Assistant*; 1997
Diploma, North Iowa Area Community College

Community Education

Barb Eisenmenger, *Garner Community Education Coordinator*; 1989
B.A., Buena Vista University; M.S., Iowa State University; Wind and Water School of Feng Shui, FSIM

Constance Glandon, *Charles City/Hampton/Osage Community Education Coordinator*; 2000
B.A., Wartburg College; M.S., Capella University; additional course work at Capella University

Lana Miller, *Charles City Center Office Assistant*; 1986
Course work at North Iowa Area Community College

Training & Development

Bill Burdick, *Management and Professional Development Coordinator*; 2000
B.S., Drake University

Jody East, *Economic Development Training Coordinator*; 1992
B.S., Iowa State University; M.S., Drake University; and Jonah, the Goldratt Institute

Mary Nell Fullerton, *Computer Education Coordinator*; 2001
A.A., Austin Community College; B.S., Buena Vista College

Elizabeth Gales, *Director of Business Leadership and Cultural Events*; 1990
B.A., College of St. Catherine

Learning Support

Jeanette Armstrong, *Adult Education Records Specialist*; 1989
A.S.B. and A.A., North Iowa Area Community College; additional course work at University of Iowa

Karen Dole, *Librarian*; 1980
B.A. and M.A., University of Northern Iowa; additional course work at Morningside College, Iowa State University, Drake, and University of Iowa

Cindy Eyberg, *Library Interlibrary Loan/Government Documents Assistant*; 1999
Course work at North Iowa Area Community College

Kim Kraus, *Library Circulation Assistant*; 1984
Clerical diploma, Hamilton Business College; additional course work at North Iowa Area Community College

Joyce Navratil, *Library Associate*; 1994
A.A., North Iowa Area Community College

Lori Quinlan, *Student Learning Center Instructor*; 1985
B.A., University of Northern Iowa; M.S., Iowa State University; additional course work at Drake University

Gary Show, *Assessment/GED Records Specialist*; 2003
B.S., Greenville College

Lee Weber, *Student Learning Center Instructor (P/T)*; 1996
A.A., North Iowa Area Community College; B.A., University of Northern Iowa; M.B.A., University of Minnesota; additional course work at Mankato State University

School Partnerships

Jean Ostrander, *Director of School Partnerships*; 1993
B.A., University of Iowa; M.S., Iowa State University

Joshua Byrnes, *School Partnership Coordinator*; 2005
B.A., Luther College; M.S., Winona State University

Fran DeGroot, *School Partnership Coordinator*; 1998
B.A., University of Northern Iowa; M.E., Iowa State University

Diane Greimann, *Office Assistant*; 2002
Diploma, Hamilton Business College

ADMINISTRATIVE SERVICES

Sandra Gobeli, *Vice President for Administrative Services*; 1979
A.A., North Iowa Area Community College; Graduate, Hamilton Business College; B.A., Buena Vista University; M.B.A., Drake University

Mary Cole, *Administrative Services Office Manager*; 1988
Diploma, American Institute of Business; additional course work at Des Moines Area Community College

Denise Brooks, *Administrative Services Office Assistant/Receptionist*; 1987
Diploma, Hamilton Business College

Ann Fisher, *Administrative Services/Human Resources Office Assistant*; 1994

A.A. and A.S., North Iowa Area Community College; additional course work at University of Northern Iowa and University of Iowa

Cheryl (Buffie) Ohden, *Copy Center Supervisor*; 1972
Diploma, Hamilton Business College

Business Office

Kathy Grove, *Director of Business Services*; 1977

A.A., North Iowa Area Community College; B.A., Buena Vista University; additional course work at Iowa State University

Shannon Carpenter, *Accounts Receivable Clerk*; 2005

A.A., Hawkeye Community College; additional course work at University of Northern Iowa

Krystal Crandall, *Business Office Clerk*; 1998

Accounting Clerk with Computers Diploma and A.S.B., North Iowa Area Community College; additional course work at Buena Vista University

Mindy Eastman, *Accountant*; 1990

A.A., North Iowa Area Community College; B.A., Buena Vista University

Beth Forbes, *Payroll Clerk/Bookkeeper*; 1977

A.A., North Iowa Area Community College.; additional course work at University of Northern Iowa

Tammy Hain, *Financial Aid/Bookkeeper*; 1985

A.A., North Iowa Area Community College

Valerie Borseth, *Accounts Payable Clerk*; 1989

A.S.B., Accounting Diploma, Accounting Clerk Diploma, North Iowa Area Community College

Rhonda Nesheim-Kauffman, *Bookkeeper/Office Assistant*; 1996

A.S.B., North Iowa Area Community College; B.A., Buena Vista University

Dining Services

Ken Webber, *Food Service Director*; 2004

Stephen Metz, *Food Service Manager*; 2004

Human Resources

Shelly Schmit, *Director of Human Resources*; 1998

A.A., Des Moines Area Community College; B.S., Iowa State University; M.S., Iowa State University; additional course work at Iowa State University

Ann Fisher, *Administrative Services/Human Resources Office Assistant*; 1994

A.A. and A.S., North Iowa Area Community College; additional course work at University of Northern Iowa and University of Iowa

Tammie (TJ) Hirv, *Human Resource Assistant*; 1991

A.S.B. and A.A., North Iowa Area Community College; additional course work at University of Northern Iowa, University of Iowa, Buena Vista University, and Upper Iowa University

Physical Plant

Tony Pappas, *Director, Physical Plant*; 1983

Licensed Master Electrician, I.B.E.W.; A.A., North Iowa Area Community College; additional course work at Iowa State University

Mitchell Olson, *Buildings Supervisor*; 1995

A.A.S., North Iowa Area Community College

Don Smith, *Custodial Supervisor*; 1992

Journeyman Electrician, I.B.E.W., A.A., North Iowa Area Community College; additional course work at North Iowa Area Community College

Matt Anderson, *Custodian*; 2004

A.A. North Iowa Area Community College; CNA certification

Bill Beach, *Student Housing Custodian*; 1981

Josiah Bushlack, *Warehouse Maintenance*; 2004

Course work at North Iowa Area Community College

Theresa Cheever, *Custodian*; 2004

A.A., North Iowa Area Community College; B.A., Buena Vista University

Stanley Emerson, *Grounds Maintenance*; 1984

Course work at North Iowa Area Community College

Dan Erickson, *Groundskeeper*; 2003

Dennis Felland, *Custodial Maintenance*; 1995

Course work at Mesa Community College and Arizona State University

Kathy Foster, *Facilities Office Assistant*; 1998

A.A., North Iowa Area Community College; additional course work at Buena Vista University

Dan Hicok, *Building Maintenance*; 2003

June Lauritson, *Custodian*; 2000

David Lief, *Custodian*; 2005

Allan Meyer, *Custodial Maintenance*; 2004

Mike Norcross, *Custodian*; 1999

Gary Patrick, *Custodian*; 2004

Kevin Petersen, *Building Maintenance*; 2001
A.A., North Iowa Area Community College; B.S., Northwest Missouri State University; course work at Waldorf College

Alvin Reiter, *Student Housing Custodian*; 1977

Rusty Seidel, *Grounds Maintenance*; 1984
A.A., North Iowa Area Community College

Michael Shea, *Custodian*; 2001

David Swartwood, *Custodian*; 2005
B.A., MidAmerica Nazarene University; course work at South Carolina School of Ministry

Cheryl West, *Student Housing Custodial Coordinator*; 1976

Jerry White, *Custodial Maintenance*; 1980

Timothy Winter, *Technician*; 1999
Licensed Journeyman Electrician, I.B.E.W.; course work at North Iowa Area Community College

INSTITUTIONAL ADVANCEMENT

Jamie Zanios, *Director, John Pappajohn Entrepreneurial Center, and Director, Institutional Advancement*; 2003
B.A., University of Iowa

Tammy Hove, *Associate Director, Institutional Advancement*; 1989
A.A., North Iowa Area Community College; B.A. and M.B.A., University of Iowa

Molly Pederson, *Resource Development Coordinator*; 2003
A.A., North Iowa Area Community College; B.A., University of Northern Iowa

Sandra Troge, *Institutional Advancement Office Assistant*; 2004
A.A., Central College; B.S., McPherson College

Linda Rourick, *Campus Facility/ICN Scheduler*; 1994
B.S., Iowa State University

Deb Smith, *Campus Facility/ICN Scheduler/Continuing Education Office Assistant*; 1997
Diploma, North Iowa Area Community College

JOHN PAPPAJOHN ENTREPRENEURIAL CENTER

Jamie Zanios, *Director, John Pappajohn Entrepreneurial Center, and Director, Institutional Advancement*; 2003
B.A., University of Iowa

Dana Heimbuch, *Office Assistant/Administrative Assistant*; 1998
A.S.B., North Iowa Area Community College

Mark Ochefske, *Director of Regional Business Development Services*; 2006
Diploma, Anoka Tech College; B.S., University of Minnesota; M.B.A., University of St. Thomas

Tim Putnam, *Associate Director, John Pappajohn Entrepreneurial Center*; 2000
B.S., Kansas State University; additional course work at Drake University

Terry Schumaker, *Director of Economic Development/Special Projects*; 2000
A.A., North Iowa Area Community College; B.S., Minnesota State University; additional course work at Buena Vista University and Drake University

Small Business Development Center

Ted Bair, *Director of Small Business Development Center*; 2006
A.A., North Iowa Area Community College, B.A., Buena Vista University; additional course work at University of Iowa

MARKETING AND COMMUNITY RELATIONS

Sethanne DeGabriele, *Director of Marketing and Community Relations*; 2001
A.A., North Iowa Area Community College; B.A., University of Northern Iowa; additional course work at University of Northern Iowa

James Zach, *Graphic Artist*; 1995
A.A., North Iowa Area Community College; B.A., Iowa State University

STUDENT SERVICES

Karen Pierson, *Vice President for Student Services*; 1996
B.S., Northwest Missouri State University; M.S., University of Nebraska; Ph.D., Iowa State University

Sandra Harrington, *Office Manager*; 1981
Diploma, North Iowa Area Community College

Admissions

Rachel McGuire, *Director of Admissions*; 1993
A.A., North Iowa Area Community College; B.A., University of Northern Iowa; M.F.C.S., Iowa State University; additional course work at Mankato State University

Colleen Sisco, *Associate Director of Admissions*; 2004
B.S. and M.A., University of South Dakota

Pam Langhoff, *Adult Student Recruiter*; 2005
A.A., North Iowa Area Community College; B.A., Buena Vista University

Cindy Lind, *Financial Management Advisor*; 2005
A.A., North Iowa Area Community College; B.A., Iowa State University; additional course work at Drake University

Bryan Martin, *Enrollment Specialist*; 2005
B.A., Simpson College; M.A., University of South Dakota; additional course work at Morningside College

Todd Rima, *Enrollment Specialist*; 2001
B.A., University of Northern Iowa

Denise Schreiber, *Office Assistant - Admissions*; 2005
A.S., Iowa Lakes Community College

Scott Strohmeier, *Enrollment Specialist*; 2005
B.S., University of Minnesota, M.A., Concordia College

Mary Jo Vrba, *Enrollment Specialist*; 2003
A.A. and A.S., North Iowa Area Community College; B.A., Wartburg College; additional course work at University of Northern Iowa

Athletics

Ryan McGuire, *Director of Athletics*; 2001
A.A., Black Hawk College; B.A., University of Northern Iowa; M.S., Iowa State University

Ted Bieth, *Head Volleyball Coach*; 2004
B.A., St. Cloud State University; additional course work at University of Iowa, Drake University, and Morningside College

Jennifer Currier, *Head Men's and Women's Golf Coach*; 2004
A.A., North Iowa Area Community College; B.A., Iowa State University; M.A., Missouri State University

Angela Jilek, *Athletic Division Office Assistant*; 2005
A.A., Clinton Community College; B.A., Buena Vista University; additional course work at Buena Vista University

Bryan Martin, *Head Men's Basketball Coach*; 2005
B.A., Simpson College; M.A., University of South Dakota; additional course work at Morningside College

Colin Murphy, *Head Men's Soccer Coach*; 2003
B.A., Grinnell College; J.D. with Honors, Drake Law School; USSF National D License; Manchester United Soccer School Coaches Certificate, 2003

John Oertel, *Head Women's Basketball Coach*; 1984
A.A., North Iowa Area Community College; B.S., Iowa State University; M.A., University of Iowa

Todd Rima, *Head Baseball Coach*; 2001
B.A., University of Northern Iowa

Scott Strohmeier, *Head Football Coach*; 2005
B.S., University of Minnesota, M.A., Concordia College

Mary Jo Vrba, *Head Softball Coach*; 2003
A.A. and A.S., North Iowa Area Community College; B.A., Wartburg College; additional course work at University of Northern Iowa

Curtis Vais, *Head Men's and Women's Cross Country Coach, Head Men's and Women's Track and Field Coach*; 2004
B.A., Mount Saint Claire College

Counseling/Academic Advising

Terri Bonner Ewers, *Director of Counseling/Student Support Services*; 1988
A.A., North Iowa Area Community College; B.A., University of Northern Iowa; M.S., Iowa State University; L.M.S.W.; Ed.S., Drake University; additional course work at Marycrest College, University of Iowa, Iowa State University, and Drake University

Cynthia Abben, *Office Assistant*; 1976
Diploma, Hamilton Business College

Kay Field, *Counselor/Cooperative Education*; 1990
A.A., Rochester Junior College; B.S., St. Cloud State University; M.Ed., Iowa State University; additional course work at Drake University, Marycrest College, and University of Iowa

Trudy LaBarr, *Counselor*; 1998
B.S.E., Arkansas State University; M.R.C., Arkansas State University; Ed.S., Arkansas State University; additional course work at Peabody College and Vanderbilt University

Financial Aid

Mary Bloomingdale, *Director of Financial Aid*; 1991
B.A., University of Iowa; additional course work at Iowa State University; additional course work at Iowa State University

Michelle Petznick, *Associate Director of Financial Aid*; 1996
A.A., North Iowa Area Community College; B.A., University of Northern Iowa

Carla Alexander, *Financial Aid/Scholarship Office Assistant*; 1994
Course work at University of Missouri

Housing

Tyler Sisco, *Director of Housing/Student Activities*; 2003
A.A., Ellsworth Community College; B.A., University of Northern Iowa; M.A. Livingston University

Travis Hergert, *Housing Head Resident/Assistant Baseball Coach/Intramural Coordinator*; 2004

A.A. Kirkwood Community College; B.A., Mount Mercy College

Jerry Montgomery, *Housing Head Resident/Assistant Football Coach/Intramural Coordinator*; 2005

B.A., University of Iowa

Lois Spieker, *Housing Office Manager and Computer Support Technician*; 1989

A.A., North Iowa Area Community College

Registration

Mary Wendt, *Assistant Registrar/Student Records Research Coordinator*; 1976

A.A., North Iowa Area Community College

Maryls Katuin, *Records Office Assistant*; 1979

Diploma, North Iowa Area Community College

Susan Steig, *Office Assistant*; 1978

Diploma, North Iowa Area Community College

Student Support Services Project

Terri Bonner Ewers, *Director of Counseling/Student Support Services*; 1988

A.A., North Iowa Area Community College; B.A., University of Northern Iowa; M.S., Iowa State University; L.M.S.W.; Ed.S., Drake University; additional course work at Marycrest College, University of Iowa, and Iowa State University

Angie DeVries, *Office Assistant*, 1998

A.S.B., North Iowa Area Community College

Larry Kollman, *Counselor - Student Support Services*; 2005

A.A., North Iowa Area Community College; B.A., Buena Vista University, M.S.W., Augsburg College; additional course work at Morningside College and Iowa State University

Kathryn Long, *Counselor - Student Support Services*; 2002

B.A., Clarke College; M.P.S., Loyola University; L.M.S.W.

Jessica Putnam, *Tutor Coordinator/Instructor*; 1988

B.A., University of Northern Iowa; M.A., Iowa State University; M.Ed., Iowa State University; additional course work at University of Northern Iowa, Marycrest College, Drake University, and University of Iowa

Vocational Rehabilitation

Norma B. Skogen, *Rehabilitation Counselor*; 2003

Certified Rehabilitation Counselor; A.A. Normandale Community College; B.S. and M.S., Mankato State University

Angie Stanton, Vocational Rehabilitation Office Assistant;

TECHNOLOGY SERVICES

Mark Greenwood, *Director of Technology Services*; 1989

B.A., Central College

Steven Bendickson, *Computer Technician*; 1997

Diane Bissig, *Programmer-Analyst/Web System Administrator*; 1995

Diploma, Indian Hills Community College

Brian Charlton, *Computer Lab Technician Supervisor*; 1999

A.A.S. Degree, Hamilton Business College; A.A. Degree, Iowa Central Community College

Jim Degen, *Applications Programmer/Network Manager*; 1989

A.A., North Iowa Area Community College; B.S., Iowa State University; additional course work at North Iowa Area Community College

Alan Haight, *Media Technician*; 2000

AST, United Electronics Institute

Judith Henry, *Systems Administrator/Programmer-Analyst*, 1999

B.A., University of Iowa; M.S., Capella University; additional course work at Rochester Institute of Technology, IBM, and Oklahoma State University

Dennis Klemas, *Computer Technician Coordinator*, 1998

A.A.S., North Iowa Area Community College

Merlin Klemmer, *Computer Technician*; 1999

Graduate, DeVry Technical Institute; Graduate, Brown Institute; Course work at Benchmark Network Systems

Bruce McKee, *Instructional Technology Coordinator*; 1991

B.F.A., University of Minnesota; M.A., University of Northern Iowa

Lois Spieker, *Operations Manager and Computer Support Technician*; 1989

A.A., North Iowa Area Community College

Lisa Steiff, *Help Desk/Media Support Technician*; 1999

A.A., Waldorf College; Microsoft Network Engineer Certificate, Hamilton College; B.A., Buena Vista University; additional course work at Mankato State University

WORKFORCE DEVELOPMENT PARTNERSHIP

Nancy Bair, *Regional Director*; 1990

B.A., University of Iowa; MPA, Drake University; additional course work at Iowa State University

Donna Petersen, *Office Manager*; 1983

Economic Development

Terry Schumaker, *Director of Economic Development/Special Projects*; 2000

A.A., North Iowa Area Community College; B.S., Minnesota State University; additional course work at Buena Vista University and Drake University

North Iowa Career Center

Kim Caponi, *Director*, 1997

B.A., Union College.

Tina Kunzman, *Office Assistant*; 2002

A.A. North Iowa Area Community College; B.S., Iowa State University; additional course work at Mankato State University

Promise Jobs

Heather Wright, *Workforce Advisor - Team Leader*; 2000

B.A. University of Northern Iowa

Bonnie Glidden, *Workforce Advisor*; 2000

A.A., North Iowa Area Community College; B.S., Mankato State University

Judith Lickeig, *Workforce Advisor*; 1999

L.P.N., North Iowa Area Community College; additional course work at North Iowa Area Community College

Jerold Magnuson, *Workforce Advisor*; 1998

A.S., New England Institute of Technology; A.A., North Iowa Area Community College; B.A., Buena Vista University

Duane Meyer, *Workforce Advisor*; 1986

A.A., North Iowa Area Community College; B.A., University of Northern Iowa; additional course work at Iowa State University and University of Northern Iowa

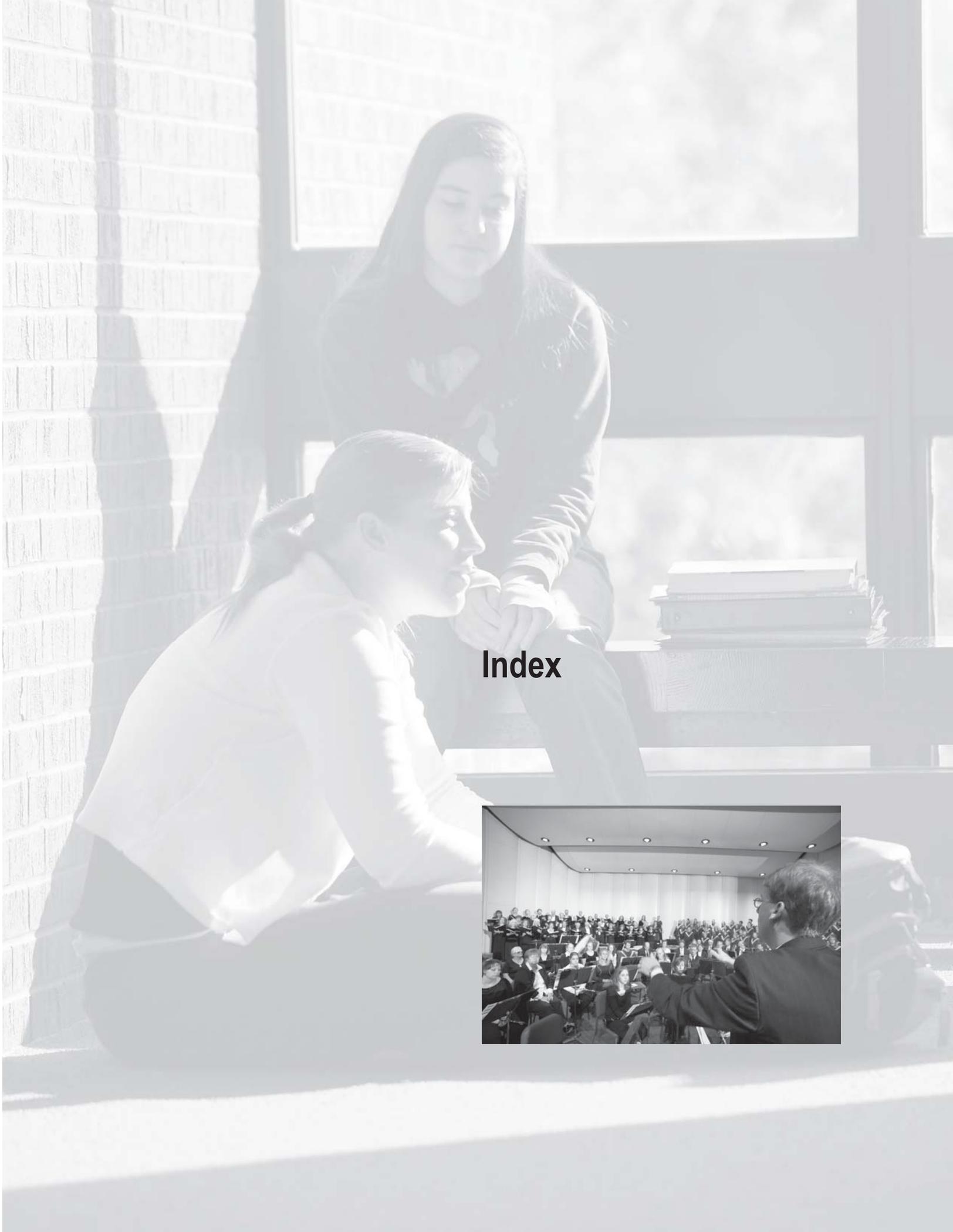
Workforce Investment Act

Mickey Funkhouser, *Employment Training Specialist*; 1991

B.A., University of Iowa; additional course work at University of South Dakota, University of Northern Iowa, and Marycrest College

Janice Grandstaff, *Employment Training Specialist*; 1983

B.A., University of Northern Iowa



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