



North Iowa Area Community College

2008-2009

General Catalog & Student Handbook

TABLE OF CONTENTS

General Information	3
Admissions	11
Instructional Resources	15
Career Programs	
AGRICULTURAL TECHNOLOGY	21
BUSINESS	27
FAMILY, HUMAN, AND LEISURE SERVICES	63
HEALTH	69
REGIONAL HEALTH	85
INDUSTRIAL TECHNOLOGY	89
PUBLIC SERVICE	99
School Partnerships	103
College Transfer Programs	105
General Education/Other Transfer Courses	133
Course Descriptions	137
Student Handbook	181
Staff	227
Index	239

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

LOCATION AND HISTORY

ACCREDITATION AND APPROVAL

BOARD OF DIRECTORS

MISSION OF THE COLLEGE AND INSTITUTIONAL PURPOSES

GENERAL EDUCATION

DEGREE REQUIREMENTS

FACILITIES/SERVICES

CONTINUING EDUCATION

NORTH IOWA AREA COMMUNITY COLLEGE FOUNDATION

NONDISCRIMINATION POLICY

General Information

LOCATION AND HISTORY

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, 2000-2009

Jean Torgeson, Certified Legal Nurse Consultant, Manly, Board Vice President, 2001-2010

John Heilskov, CPA, Hampton, 2002-2008

Karen Knudtson, Realtor, Mason City, 1989-2008

Toni Noah, Retired, Charles City, 2006-2009

Dean Cataldo, Retired, Garner, 2003-2008

Gordon Anderson, Retired, Osage, 2004-2010

Jim Niemants, Investment Representative, Clear Lake, 2005-2009

Robert Davis, Retired, Mason City, 2007-2010

Kathy Grove, 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. (Additional performance courses will be counted as elective credit.)

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.

6 GENERAL INFORMATION

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 40 semester hours:

Communication 8 s.h.

Social Sciences/Humanities 8 s.h.

Natural Science/Mathematics 20 s.h.
(must include at least one math and at least one science course)

Distributed Requirement 4 s.h.
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 134-135 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.

Career and Internship Center

The Career and Internship Center is located in the Pappajohn Entrepreneurial Center, Rooms 115 and 116, or can be reached by phone at 641-422-4292. The Center provides NIACC students and alumni resources and support in successfully securing employment and internship opportunities. A variety of resources, tools, and activities are available to students and alumni as well as one-on-one support. The Career and Internship Center works in partnership with Iowa Workforce Development through the Workforce Development Partnership to enhance the resources and service available. For more information on the Career and Internship Center and its services, see page 208.

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 multi-purpose 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 194.

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, Monday through Friday (see page 193 for specific hours). 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. Increase their understanding/learning in NIACC courses through one-on-one academic support.
2. 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.
3. Gain new skills by participating in an individualized course such as high school credit.
4. 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 and on College grounds.

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, process, 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.

Online, ICN & Facilities

With Continuing Education's availability of over 500 courses delivered online, 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 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, sex, sexual orientation, gender identity, 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 7, 2008

December 5, 2008

February 6, 2009

March 6, 2009

April 3, 2009

- **Saturday Visits**

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

November 8, 2008

January 24, 2009

February 21, 2009

March 28, 2009

April 25, 2009

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 also 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 200-201 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 (or 173 on the computerized version) 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 or by phone. 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. Summer students need to check our web site: www.niacc.edu/summer for registration information and instructions.



Orientation

All first-time, full-time students and transfer students with less than 12 hours of credit are required to register for SDV-100, Orientation to College. The purpose of the course is to familiarize NIACC students with student systems like Web Advisor, student e-mail, and other campus resources. This online class is a pass/no pass course. Students are expected to complete all sections prior to the Wednesday before mid-term of the semester.



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 informational and educational needs of the NIACC community.

This includes assessment, 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

- 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.

A word-processing computer 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 thousands of 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. 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.



The library's Café Bean provides a casual atmosphere where students can meet and relax with coffee. 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.
6. Participate in student-led study groups known as "Supplemental Instruction."

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 reproduction, 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. Wireless Internet access is available throughout campus and the college residence halls. (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 three 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, HUMAN, AND LEISURE 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 133-134 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.

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.

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

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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.
AGM-120	Basic Agricultural Mechanics	2 s.h.
AGP-331	Precision Agriculture	2 s.h.
AGS-227	Beef Cattle Production	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-811	Animal Technologies	1 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.

Agricultural Operations Management

Agricultural Technology Division

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The Operations Management curriculum is designed to prepare students to farm, be farm managers, or work in a production field. It provides a sound academic foundation with emphasis on farm management, 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, and business planning and decision making.

Career Opportunities

Internships: Students in Operations Management 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 Ag Operations Management graduates include self employed in farming, farm management, GPS/GIS service, production assistants, livestock production, herdspeople, crop production, crop input application, and sales.

Earning Potential: Entry-level salaries for recent NIACC agriculture technology graduates ranged between \$ 20,000 and \$ 50,000 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.
BUS-161	Human Relations.....	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.
BIO-196	Introduction to Bio-Technology.....	4 s.h.
		17 s.h.

Third Term

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

Second Year

Fourth Term

AGB-436	Grain Merchandising.....	2 s.h.
SDV-210	Cooperative Education Internship.....	4 s.h.
	Approved Ag Elective(s).....	8 s.h.
		14 s.h.

Fifth Term

AGB-465	Ag Finance Management.....	2 s.h.
AGM-120	Basic Agricultural Mechanics	2 s.h.
SDV-210	Cooperative Education Internship.....	4 s.h.
	Approved Ag Elective(s).....	8 s.h.
		16 s.h.

Total Program Hours 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-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-438	Ag Futures & Future Options	2 s.h.
AGE-116	Horse Essentials & Equine Management	2 s.h.
AGS-227	Beef Cattle Production	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.

Agricultural Sales & Service

Agricultural Technology Division

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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 \$ 20,000 and \$ 50,000 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.
BUS-161	Human Relations	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.
BIO-196	Intro to Bio-Technology	4 s.h.
		17 s.h.

Third Term

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

Second Year

Fourth Term

AGB-436	Grain Merchandising	2 s.h.
SDV-210	Cooperative Education Internship	4 s.h.
	Approved Ag Elective(s)	8 s.h.
		14 s.h.

Fifth Term

AGB-338	Salesmanship & Advertising	2 s.h.
AGB-465	Ag Finance Management	2 s.h.
SDV-210	Cooperative Education Internship	4 s.h.
	Approved Ag Elective(s)	8 s.h.
		16 s.h.

Total Program Hours 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.
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-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.

Agricultural Marketing and Finance

Agricultural Technology Division

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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.

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

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

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 \$ 20,000 and \$ 50,000 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.
BUS-161	Human Relations.....	3 s.h.
ENG-102	Composition & Speech I	4 s.h.
	Math Elective.....	4 s.h.
		18 s.h.

Second Term

ACC-121	Principles of Accounting I.....	3 s.h.
AGA-114	Principles of Agronomy	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	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.
	Approved Ag Elective(s).....	4 s.h.
		15 s.h.

Fifth Term

AGB-338	Salesmanship & Advertising	2 s.h.
AGB-438	Ag Futures & Future Options	2 s.h.
AGB-465	Ag Finance Management	2 s.h.
SDV-210	Cooperative Education Internship.....	4 s.h.
	Approved Ag Elective(s).....	6 s.h.
		16 s.h.

Total Program Hours 72 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-205	Introduction to Farm Operation.....	2 s.h.
AGB-213	Ag Real Estate Evaluation	2 s.h.
AGB-438	Ag Futures & Futures Options	2 s.h.
AGE-116	Horse Essentials & Equine Management	2 s.h.
AGM-120	Basic Agricultural Mechanics	2 s.h.
AGS-227	Beef Cattle Production	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.

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.

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- * Technology Emphasis
- * Award-Winning Faculty
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- * 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 \$ 20,000 and \$ 50,000 annually.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

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 (Spring Semester)

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

Third Term (Summer)

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

Second Year

Fourth Term (Fall Semester)

NET-213	CISCO Networking.....	4 s.h.
General Education Core		3 s.h.
Approved Ag Elective(s).....		3 s.h.
Approved Career Elective(s)		4 s.h.
Approved Free Elective(s)		3 s.h.
		17 s.h.

Fifth Term (Spring Semester)

BUS-158	Internet Law	3 s.h.
CIS-211	Web Development II.....	3 s.h.
SDV-210	Cooperative Education Internship.....	4 s.h.
Approved Ag Elective(s).....		6 s.h.
		16 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

Accounting/Computing

- Accounting-Associate in Science (Business/Accounting)
- Accounting with Computers
- Accounting Certificate

Information Technology

- E-Commerce, Web Design, and Development
- Graphic Communication
- Information Systems Technology
- Information Technology Blended Study Certificates
- Senior Network Administration

Business Program Clusters

Marketing/Management

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

Professional Administrative Services

- Administrative Office Associate
- Administrative Office Specialist
- Legal Office Associate
- Legal Office Specialist
- Medical Coding
- Medical Office Associate
- Medical Office Specialist
- Medical Transcription
- Software Applications Specialist Certificate

BUSINESS

Gary Christiansen, Division Chair

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ACCOUNTING/COMPUTING

Accounting - Associate in Science (Business/Accounting) - page 29

Accounting with Computers - page 30

Accounting Certificate - page 31

INFORMATION TECHNOLOGY

E-Commerce, Web Design, and Development Specializations:

Web Design - page 35

Graphic Communication - page 35

Information Systems Technology Specializations:

Accounting - page 37

Business Technology - page 38

Cyber Security and Integrity - page 39

Desktop Systems (Software) - page 40

Management Information Systems - page 41

Network Administration - page 42

PC Technician (Hardware) - page 43

Software and Video Game Testing - page 45

Information Technology Blended Study Certificates - page 33

Senior Network Administration - page 44

MARKETING/MANAGEMENT

Entrepreneurship and Small Business Management - page 46

The Pappajohn Entrepreneurial Certificate - page 47

Banking, Insurance, and Financial Management - page 48

General Business - page 49

Hospitality/Food Service Management - page 50

Marketing and Sales - page 51

Sport Management - page 52

Supervision and Management - page 53

PROFESSIONAL ADMINISTRATIVE SERVICES

Administrative Office Associate - page 54

Administrative Office Specialist - page 55

Legal Office Associate - page 56

Legal Office Specialist - page 57

Medical Coding - page 58

Medical Office Associate - page 59

Medical Office Specialist - page 60

Medical Transcription - page 61

Software Applications Specialist Certificate - page 61

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 212-214 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, Information Technology, Marketing/Management, and Professional Administrative Services (see pages 212-214 for 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 - Associate in Science (Business/Accounting) Degree

Opportunities await graduates of NIACC's Associate in Science (Business/Accounting) Degree. This program is designed to prepare students for an exciting career in the accounting/bookkeeping job market—a field offering students many dynamic and challenging career opportunities. This program may be completed in four semesters by following the suggested curriculum, or it can be spread over five or more semesters to meet the scheduling needs of the student. The Career and Internship Center is available to assist students with job placement options. This program also offers students wishing to pursue a four-year degree multiple transfer options. For specific transfer options, students should contact the NIACC Business Division or a NIACC counselor.

Upon completion of the prescribed curriculum with a grade point average of 2.00 (C) or above, 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
- Accounts Receivable/Payable Manager
- Bookkeeper
- Credit Analyst
- Credit Counselor
- Contract Administrator
- Financial Planner
- Payroll Manager
- 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.
ACC-135	Personal Income Tax.....	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 134-135.

Accounting with Computers/Diploma

The Accounting with Computers/Diploma Program is designed to provide students with the skills and knowledge necessary to enter the field of bookkeeping and accounting in an entry-level position. The program is very technically focused to provide the student with essential job-related accounting and computer skills. The program may be completed in two semesters by following the suggested curriculum, or it may be spread over three or more semesters to meet the scheduling needs of the students. 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
- Collections Clerk
- Data Entry
- General Office Clerk
- Inventory 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.
ACC-135	Personal Income Tax.....	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 134-135.

Accounting Certificate Program



Are you looking to sharpen your accounting skills? The Accounting Certificate Program offerings provide you with a great opportunity to enhance your present skills or add new skills to your resume. You will spend time between the classroom and the computer lab working as a team with instructors dedicated to making you job ready or helping to prepare you to continue your education in an accounting-related program.

Upon completion of the prescribed curriculum with a grade point average of 2.00 (C) or above, the student is awarded a certificate. For students desiring to continue their education, they are eligible to go on to complete an Accounting with Computers/Diploma, an Associate in Science Degree (Business/Accounting), or an Associate in Science Degree (Business/Information Technology).

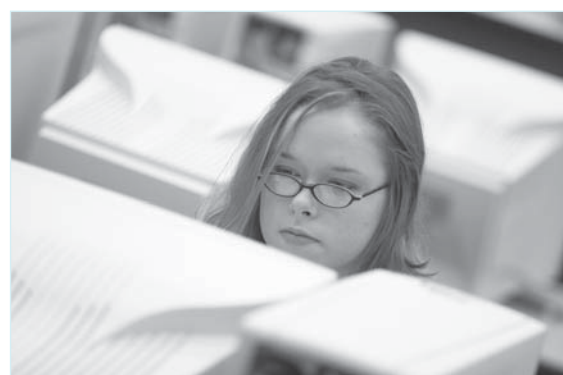
Required Courses

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.
		15 s.h.

Career Opportunities

Students have the option of obtaining employment using their accounting skills ... Some job opportunities are listed below:

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

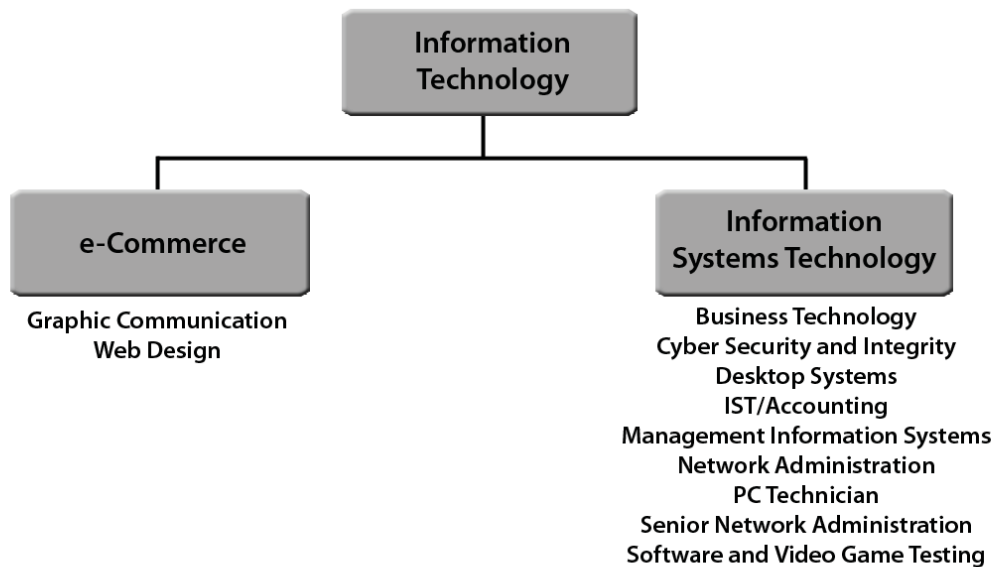


Business Internships

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

E-Commerce programs provide 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 the following programmatic options:

- Graphic Communication (page 36)
- Web Design (page 36)

Upon completion of the Graphic Communication curriculum with an average grade point of 2.00 (C), the student is awarded an Associate in Applied Science Degree.

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

Information Systems Technology

NIACC's Information Systems Technology Program is a diverse program allowing students to choose from a variety of career paths. The IST Program incorporates:

- Accounting (page 37)
- Business Technology (page 38)
- Cyber Security and Integrity (page 39)
- Desktop Systems (Software) (page 40)
- Management Information Systems (page 41)
- Network Administration (page 42)
- PC Technician (Hardware) (page 43)
- Senior Network Administration (page 44)
- Software and Video Game Testing (page 45)

In all specializations students can develop fundamental Information Technology skills in the following areas: basic web page development, installing and maintaining PC operating systems, development of an information system, putting a project together, putting a network together, and securing information.

For placement information, contact the Career and Internship Center or the NIACC Business Division. Upon completion of the prescribed curriculum with a grade point average of 2.00 (C) or above, the student is awarded an Associate in Science (Business/Information Systems Technology) 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. This will necessitate a slightly different curriculum.

Information Technology Blended Study Certificates

Short on time? Can't get away from your desk to go to class? Need or want to work rather than go to school? Looking for a promotion?

North Iowa Area Community College offers IT certificates that provide hands-on experience where you can complete a certificate in as little as three months to one year. Each certificate is designed to give you foundational skills to help you get ahead. And, if you choose to further your education at a later date, all of your certificates transfer into two-year degree Information Technology programs here at NIACC.

Many certificates are available with on-line, night, and coming soon Webinar-style classes so that you can complete your certificate program providing the flexibility you need in your busy life.

Foundations of Technology Certificate

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	Home/Office Computer Management	3 s.h.
MAT-110	Math for Liberal Arts	3 s.h.

Total Program Hours 15-16 s.h.

*This course should be taken if bridging into IT Programs.

Web Content Certificate

Required Courses/Suggested Schedule

CIS-210	Web Development I	3 s.h.
GRA-158	Web Multimedia	3 s.h.
GRA-180	Visual Communications	3 s.h.
GRA-299	Electronic Portfolio*	3 s.h.

Total Program Hours 12 s.h.

*It is preferred that students take GRA-299, Electronic Portfolios, in their last term.

Basic Computer Diagnostics Certificate

Required Courses/Suggested Schedule

CFR-100	Computer Forensics	3 s.h.
GRA-299	Electronic Portfolio*	3 s.h.
NET-113	IT Essentials I	4 s.h.
NET-304	Microsoft Workstation OS	4 s.h.

Total Program Hours 14 s.h.

*It is preferred that students take GRA-299, Electronic Portfolios, in their last term.

Foundations of Security Certificate

Required Courses/Suggested Schedule

CFR-100	Computer Forensics	3 s.h.
GRA-299	Electronic Portfolio*	3 s.h.
NET-113	IT Essentials I	4 s.h.
NET-613	Information Data Assurance	3 s.h.

Total Program Hours 13 s.h.

*It is preferred that students take GRA-299, Electronic Portfolios, in their last term.

Video Game Testing Certificate

Required Courses/Suggested Schedule

BCA-185	Beginning Web Page Development	3 s.h.
CIS-155	Intro to Video Game Testing	3 s.h.
CIS-156	Testing Concepts	3 s.h.
GRA-299	Electronic Portfolios*	3 s.h.

Total Program Hours 12 s.h.

*It is preferred that students take GRA-299, Electronic Portfolios, in their last term.

Project Management Certificate

Required Courses/Suggested Schedule

BCA-259	Project Management Software	2 s.h.
BCA-299	Personal Information Management	3 s.h.
GRA-299	Electronic Portfolios*	3 s.h.
NET-743	Fundamental Project Management	4 s.h.

Total Program Hours 12 s.h.

*It is preferred that students take GRA-299, Electronic Portfolios, in their last term.

SOHO Computer Management Certificate (Small Office/Home Office)

Required Courses/Suggested Schedule

BCA-170	Personal Information Management	2 s.h.
GRA-299	Electronic Portfolios*	3 s.h.
NET-112	Home/Office Computer Management	3 s.h.
NET-117	Home/Office Network Management	3 s.h.

Total Program Hours 11 s.h.

*It is preferred that students take GRA-299, Electronic Portfolios, in their last term.

SOHO Network Management Certificate (Small Office/Home Office)

Required Courses/Suggested Schedule

GRA-299	Electronic Portfolios*	3 s.h.
NET-117	Home/Office Network Management	3 s.h.
NET-149	Business Network Management	3 s.h.
NET-304	Microsoft Workstation OS	4 s.h.

Total Program Hours 13 s.h.

*It is preferred that students take GRA-299, Electronic Portfolios, in their last term.

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 is 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, Home/Office Computer Management
 - 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.

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.

Web Design and Graphic Communication

As a designer or graphic artist, creativity is crucial. Designers must possess a strong sense of aesthetics, color and detail, along with a sense of balance, proportion and beauty. 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. The pieces created by professional designers are often the main media used to successfully market products and services and strongly influence buying decisions.



NIACC offers two design degrees: Web Design and Graphic Communication.

- Graduates of the Web Design specialization design, create, and implement Internet-based solutions to client need. Web sites and Web applications market the client's product and service, supply a 24-hour storefront for selling, and can be used to collect marketing data and information related to industry trends. These graduates often find jobs as:

- Web Site Developers
- Web Programmers
- Multimedia Designers
- Web Consultants

- Graphic Communication graduates design and create a wide variety of materials including logos, business cards, mailers, brochures, signage, packaging, labels, display booths, and more. Upon completion of the program graduates find jobs as:

- Graphic Designers
- Production Artists
- Screenprinters
- Advertising Layout
- Print Industry

These two degrees also provide the graduate with the tools needed to become freelance artists, working from their homes or offices, creating artistic solutions for several clients at once. Some graduates also opt for continuing their education by transferring to a four-year institution for additional training.

Placement requirements for these program are found on page 34.

Program Core Requirements

All graduating designers from NIACC will complete a core set of classes selected to build a foundation for many jobs. The courses in the core include:

- ART-115 Graphic Design
- ART-120 Two-Dimensional Design
- ART-133 Drawing I
- ART-186 Digital Photography
- BUS-151 Intro to E-Commerce
- CIS-210 Web Development I
- ENG-102 Composition & Speech I
- ENG-103 Composition & Speech II
- GRA-108 Visual Communication
- GRA-117 Principles of Illustration
- GRA-166 Web Animation
- GRA-299 Electronic Portfolio
- NET-112 Home/Office Computer Management
OR NET-117 Home/Office Network Management
- Math or Natural Science Elective
- A capstone class that brings all of the knowledge together in a real-world application

Graduates of the Web Design program will also take:

- CIS-211 Web Development II
- CIS-125 Intro to Programming with Language
- GRA-151 Web Design
- GRA-158 Web Multimedia
- Humanities or Social Science Electives

Graduates of the Graphic Communication program will also take:

- ART-116 Graphic Design II
- ART-131 Digital Publication Design
- ART-143 Painting I
- GRA-173 Typography
- Business Elective

Because of the relatively small number of classes unique to each degree, many students opt for both degrees, making themselves even more marketable on the job scene.

Degree Information

Upon completion of the Web Design curriculum with an average grade point of 2.0 (C), the student is awarded an Associate in Science (Business/Information Technology) Degree.

Upon completion of the Graphic Communication curriculum with an average grade point of 2.0 (C), the student is awarded an Associate in Applied Science Degree in Graphic Communication.

Students who decide to continue their education at a four-year institution should pursue the A.A. degree as well. This will necessitate a slightly different curriculum. Graphic Communication students interested in transferring to complete a four-year degree may also want to consider taking the following classes:

- ART-144 Painting II
- ART-203 Art History I
- ART-204 Art History II

Web Design Specialization

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

ART-120	Two-Dimensional Design	3 s.h.
ART-133	Drawing I	3 s.h.
ART-186	Digital Photography	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)

ART-115	Graphic Design	3 s.h.
BUS-151	Intro to E-Commerce	3 s.h.
GRA-108	Visual Communication	3 s.h.
NET-112	Home/Office Computer Management OR NET-117 Home/Office Network Management	3 s.h.
	Humanities/Social Science Elective(s)	3 s.h.
		15 s.h.

Second Year

Third Term (Fall Semester)

CIS-125	Intro to Programming Logic with Language	3 s.h.
GRA-117	Principles of Illustration	3 s.h.
GRA-151	Web Design	3 s.h.
GRA-158	Web Multimedia	3 s.h.
GRA-166	Web Animation	3 s.h.
		15 s.h.

Fourth Term (Spring Semester)

BCA-203	E-Commerce Cases	3 s.h.
CIS-211	Web Development II	3 s.h.
ENG-103	Composition & Speech II	4 s.h.
GRA-299	Electronic Portfolio	3 s.h.
	Math/Natural Science Elective	3 s.h.
		16 s.h.
	Total Program Hours	62 s.h.

Graphic Communication

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.
ART-186	Digital Photography	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)

ART-115	Graphic Design	3 s.h.
BUS-151	Intro to E-Commerce	3 s.h.
GRA-108	Visual Communication	3 s.h.
NET-112	Home/Office Computer Management OR NET-117 Home/Office Network Management	3 s.h.
ART-143	Painting I	3 s.h.
		15 s.h.

Third Term (Summer)

0 s.h.

Second Year

Fourth Term (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 Publications Design	3 s.h.
BCA-203	E-Commerce Cases	3 s.h.
ENG-103	Composition & Speech II	4 s.h.
GRA-299	Electronic Portfolio	3 s.h.
	Math/Natural Science Elective	3 s.h.
		16 s.h.
	Total Program Hours	62 s.h.

For a list of Business electives, see pages 134-135.

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.
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 - 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.

Accounting Specialization



Many small- to medium-size businesses need employees who can do multiple tasks. The 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 34.

Degree Information

Upon completion of the prescribed curriculum with a grade point average of 2.00 (C) or above, 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-113	IT Essentials I.....	4 s.h.
NET-117	Home/Office Network Management.....	4 s.h.
		17 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 Home/Office Computer Management (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

74-78 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.

Business Technology Specialization

NIACC's Business Technology Specialization 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.

Placement requirements for this program are found on page 34.

Degree Information

Upon completion of the prescribed curriculum with a grade point average of 2.00 (C) or above, 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	Home/Office Computer Management	3 s.h.
	Information Technology Elective(s)**	3 s.h.
	Humanities/Social Science Elective	3 s.h.
		16 s.h.

Second Term

BUS-151	Introduction to E-Commerce	3 s.h.
BCA-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(s)**	3 s.h.
	Humanities/Social Science Elective	3 s.h.
		16 s.h.

Second Year

Third Term

	Information Technology Elective(s)**	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(s)**	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 Career and Internship Center or the NIACC Business Division.

Recommended Business Elective Courses:

ACC-111	Introduction to Accounting	3 s.h.
ACC-135	Personal Income Tax	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 ^A	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 Computer Business Applications and BCA-129 Basic Word Processing

^APrerequisite BUS-107 Business Careers

**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 I	4 s.h.
NET-117	Home/Office Network Management	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.

Cyber Security and Integrity Specialization

Cyber Security and Integrity 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.

Placement requirements for this program are found on page 34.

Degree Information

Upon completion of the prescribed curriculum with a grade point average of 2.00 (C) or above, the student is awarded an Associate in Science (Business/Information Systems Technology) Degree.

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 & Speech I.....	4 s.h.
NET-113	IT Essentials I.....	4 s.h.
NET-213	CISCO Networking.....	4 s.h.
	Natural Science/Mathematics Elective(s).....	3 s.h.
		18 s.h.

Second Term (Spring Semester)

ENG-103	Composition & 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 and WANs.....	5 s.h.
NET-246	Perimeter Defense.....	3 s.h.
NET-314	Windows Server.....	4 s.h.
NET-613	Information Data Assurance.....	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		18 s.h.

Fifth Term (Spring Semester)

GRA-299	Electronic Portfolio.....	3 s.h.
NET-247	Internal Defense.....	3 s.h.
NET-375	Cyber Security Design Cases.....	3 s.h.
NET-635	Ethical Hacking.....	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		15 s.h.

Total Program Hours

73 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.

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).

Placement requirements for this program are found on page 34.

Degree Information

Upon completion of the prescribed curriculum with a grade point average of 2.00 (C) or above, the student is awarded an Associate in Science (Business/Information Systems Technology) Degree.



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 I.....	4 s.h.
	OR NET-112 Home/Office Computer Management (3 s.h.)	
NET-117	Home/Office Network Management.....	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 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.

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.

Management Information Systems Specialization

The Management Information Systems (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.

Placement requirements for this program are found on page 34.

Degree Information

Upon completion of the prescribed curriculum with a grade point average of 2.00 (C) or above, the student is awarded an Associate in Science (Business/Information Systems Technology) Degree.



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-113	IT Essentials I.....	4 s.h.
NET-213	CISCO Networking.....	4 s.h.
		18 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	Home/Office Computer Management	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 67 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.

Network Administration Specialization

The Network Administration Specialization studies network design, topologies for Local Area Networks (LAN) and Wide Area Networks (WAN) for small- to medium-size companies, Network Operating Systems, and hardware. The concentration is on network management involving everything from design, implementation, and installing networking devices but also includes workstations installation, management of servers, and general maintenance of all devices on a network.

The specialization provides opportunities for students to pursue a variety of computer professional certifications listed below:

- CISCO Certified Network Associate (CCNA)
- Microsoft Certified Systems Administration (MCSA) or Linux +
- Networking +
- A+ Hardware Certification
- Security +

Placement requirements for this program are found on page 34.

More advanced network courses are offered within the Senior Network Administration Program, see page 44.

Degree Information

Upon completion of the prescribed curriculum with a grade point average of 2.00 (C) or above, the student is awarded an Associate in Science (Business/Information Systems Technology) Degree.

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:

- Manage an entire network in a small- to medium-size business
- Work in IT department with networking responsibilities
- Manage an entire IT department for a small business
- Develop your own consulting business
- Computer Support Specialist
- LAN or WAN Administrators
- Network Technician

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 & Speech I.....	4 s.h.
NET-113	IT Essentials I.....	4 s.h.
NET-213	CISCO Networking.....	4 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		18 s.h.

Second Term (Spring Semester)

ENG-103	Composition & 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)

NET-136	Operating Systems II.....	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		6 s.h.

Second Year

Fourth Term (Fall Semester)

NET-201	Network LANs and WANs.....	5 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.
		18 s.h.

Fifth Term (Spring Semester)

Network Administration Concentration

GRA-299	Electronic Portfolio.....	3 s.h.
NET-254	Building Scalable Internetworks.....	4 s.h.
NET-274	Building Multilayer Switched Networks.....	4 s.h.
NET-324	Windows Network Management.....	4 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		18 s.h.

Total Program Hours 76 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.

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 +

Placement requirements for this program are found on page 34.

Degree Information

Upon completion of the prescribed curriculum with a grade point average of 2.00 (C) or above, the student is awarded an Associate in Science (Business/Information Systems Technology) Degree.

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

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

BCA-101	Introduction to Computers & Information Systems	3 s.h.
BUS-107	Business Careers*	1 s.h.
NET-113	IT Essentials I*	4 s.h.
NET-117	Home/Office Network Management	4 s.h.
	Humanities/Social Science Elective(s)	3 s.h.
		15 s.h.

Second Term (Spring Semester)

ENG-102	Composition & Speech I	4 s.h.
NET-133	IT Essentials II	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-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.
		15 s.h.

Total Program Hours 65 s.h.

*Prerequisites BUS-107 Business Careers, NET-113 IT Essentials I, and NET-782 Computer Users Support must be completed before enrolling in BUS-225 Business Internships.

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.

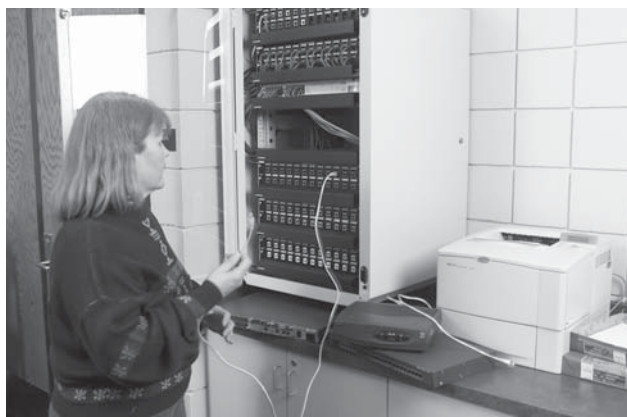
All students are highly encouraged to participate in a Business Internship before graduating.

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:

CCNP certification validates a network professional's ability to install, configure, and troubleshoot converged local and wide area networks with 100 to 500 or more nodes. Network Professionals who achieve the CCNP have demonstrated the knowledge and skills required to manage the routers and switches that form the network core, as well as edge applications that integrate voice, wireless, and security into the network.

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



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. The Network Administration Specialization information can be located on page 42.

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-160	Network Design and Documentation	3 s.h.
NET-254	Building Scalable Internetworks	4 s.h.
NET-274	Building Multilayer Switched Networks	4 s.h.
NET-743	Fundamental Project Management	4 s.h.
	Security Elective(s)	3 s.h.
		18 s.h.

Second Term (Spring Semester)

NET-264	Implementing Secure Converged WANs	4 s.h.
NET-284	Optimizing Converged Networks	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 33 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.

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.

Placement requirements for this program are found on page 34.

Degree Information

Upon completion of the prescribed curriculum with a grade point average of 2.00 (C) or above, the student is awarded an Associate in Science (Business/Information Systems Technology) Degree.

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 & Speech I.....	4 s.h.
	Humanities/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 & Speech II.....	4 s.h.
MAT-110	Math for Liberal Arts.....	3 s.h.
NET-113	IT Essentials I.....	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.
	Humanities/Social Science Elective(s).....	6 s.h.
		20 s.h.

Total Program Hours

69 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.



Entrepreneurship and Small Business Management

Want to make a million dollars, be the next Bill Gates, or be your own boss? The Entrepreneurship and Small Business Management 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.

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.

Degree Earned:

Upon completion of the curriculum with a grade point average of 2.00 (C) or above, 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.

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.

To add A.A. Degree:

Move 4 s.h. of electives to General Education Core

Add 13 s.h. of General Education Core

Total 17 s.h.





The Pappajohn Entrepreneurial Certificate

The John Pappajohn Entrepreneurial Certificate 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.

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.

Strengths:

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.

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.

Banking, Insurance, and Financial Management



Drive a car? Rent or own a home? Manage a Fortune 500 company? Chances are you answered yes to at least one of those questions. Banking, Insurance and Financial Management are everywhere and savvy students can use this training to their career advantage. A Banking, Insurance and Financial Management Degree will provide students with the fundamental knowledge, skills and tools necessary to move into their career or advance in their educational program. Improve your own personal balance sheet with an A.S.B. degree in NIACC's Banking, Insurance and Financial Management.

Career Opportunities:

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

- Management
- Customer Service
- Sales
- Commercial Bankers/Lenders
- Financial Analysts
- Investment Bankers
- Private Wealth Managers

For specific information, contact the Career and Internship Center or the NIACC Business Division.

Diploma Earned:

Upon satisfactory completion of the first year of the curriculum with a grade point average of 2.00 (C) or above, the student is awarded a diploma.

Degree Earned:

Upon completion of the curriculum with a grade point average of 2.00 (C) or above, the student is awarded an Associate in Science (Business/Banking, Insurance and 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. 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

ACC-121	Principles of Accounting I.....	3 s.h.
	OR ACC-111 Introduction to Accounting (3 s.h.) <i>if necessary</i>	
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-161	Human Relations.....	3 s.h.
ENG-102	Composition & Speech I	4 s.h.
		16 s.h.

Second Term

ACC-122*	Principles of Accounting II.....	3 s.h.
BUS-260	Introduction to Insurance	3 s.h.
ENG-103	Composition & Speech II	4 s.h.
FIN-101	Principles of Banking	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
		16 s.h.

*ACC-121 Principles of Accounting I

Second Year

Third Term

BUS-185	Business Law I.....	3 s.h.
BUS-266	Property and Casualty Insurance.....	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
	Natural Science/Mathematics	3 s.h.
	Elective(s)	3 s.h.
		15 s.h.

Fourth Term

BCA-152	Electronic Spreadsheets	3 s.h.
BUS-186	Business Law II.....	3 s.h.
BUS-267	Life, Health, & Disability Insurance	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.

Recommended Elective Courses

ACC-135	Personal Income Tax.....	3 s.h.
ACC-311	Computer Accounting.....	3 s.h.
ADM-123	Document Formatting.....	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 (Prereq: BUS-107 Business Careers) 1-5 s.h.	
ECN-120	Principles of Macroeconomics	3 s.h.
ECN-130	Principles of Macroeconomics	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.
POL-111	American National Government.....	3 s.h.
POL-112	American, State, & Local Government	3 s.h.

For additional Business electives, see pages 134-135.

General Business

The General Business Program provides the student with a broad base of knowledge to assume a wide variety of professional business positions in our ever-changing business environment.

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 Career and Internship Center or the NIACC Business Division.

Employment Outlook:

Whether a business is not-for-profit, governmental, or an international corporation, it needs people with skills in general business. All organizations offer careers that rely heavily on effective business management techniques, making general business an excellent foundation.

Strengths:

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.

Degree Earned:

Upon completion of the curriculum with a grade point average of 2.00 (C) or above, 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-156	Introduction to Statistics.....	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) (Recommended Electives)	4 s.h.
		13 s.h.

Total Program Hours 60 s.h.

Recommended Elective Courses

ACC-122	Principles of Accounting II.....	3 s.h.
ACC-135	Personal Income Tax.....	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 (Prereq: BUS-107 Business Careers)	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 134-135.

Hospitality/Food Service Management



Does a career in Hospitality/Food Service Management sound appetizing? This program is designed to give students the option of articulation to a four-year institution or employment upon graduation. Graduates will be prepared for careers in food preparation, entry-level supervision or management positions, as well as food marketing or food distribution sales representatives.

Career Opportunities:

A wide variety of employment opportunities are available including:

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

Employment Outlook:

Bureau of Labor Statics (BLS) data shows the field of food management, particularly in institutions such as schools, hospitals, nursing homes, restaurants, hotels, and prisons, to be in the top ten job growth areas by 2012.

Degree Earned:

Students who complete the first year, as well as Business Internships, with a grade point average of 2.00 (C) or above are awarded a NIACC diploma. Students can also go on to earn an Associate in Applied Science degree with an emphasis in Hospitality/Food Service Management.

Students wishing 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

BUS-102	Introduction to Business.....	3 s.h.
BUS-107	Business Careers.....	1 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.
		14 s.h.

BUS-225 Business Internships+ (Prereq: BUS-207 Business Careers) . 4 s.h.
A student may enroll in this course in any term.

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.

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.

^ Prerequisite BUS-107 Business Careers

Recommended Electives

ACC-122	Principles of Accounting II.....	3 s.h.
ACC-135	Personal Income Tax.....	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 134-135.

Marketing and Sales

The Marketing and Sales Degree helps students explore several important areas of an organization, including marketing, promotion and sales. To successfully communicate an idea, to serve the needs of your customers more effectively, and to be competitive in the marketplace, learning effective selling skills is essential for everyone. From the CEO to the Administrative Assistant, everyone in every company is selling every hour of every day whether they are aware of this fact or not!

Career Opportunities:

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

- Sales Representative
- Department Manager
- Store Manager
- Promotion/Advertising
- Merchandise Buying/Planning
- Sales
- Human Resources Management

Strengths:

Marketing is an attitude, philosophy, and perspective that stresses customer relationships to provide satisfaction. Marketing plays an important role in society, is important to business, and offers outstanding career opportunities.

Diploma Earned:

Upon satisfactory completion of the first year of the curriculum with a grade point average of 2.00 (C) or above, the student is awarded a diploma.

Degree Earned:

Upon satisfactory completion of the prescribed curriculum with a grade point average of 2.00 (C) or above, the student is awarded an Associate in Science (Business/Marketing and Sales) 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

ACC-121	Principles of Accounting I.....	3 s.h.
	OR ACC-111 Introduction to Accounting (3 s.h.)	
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-161	Human Relations.....	3 s.h.
ENG-102	Composition & Speech I	4 s.h.
		16 s.h.

Second Term

BUS-121	Business Communications.....	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.
	Humanities/Social Science Elective(s).....	3 s.h.
		16 s.h.

Second Year

Third Term

BUS-107	Business Careers.....	1 s.h.
BUS-185	Business Law I.....	3 s.h.
MKT-160	Principles of Retailing	3 s.h.
	Humanities/Social Science Elective(s).....	3 s.h.
	Natural Science/Mathematics Elective(s)	3 s.h.
	Elective(s)	2 s.h.
		15 s.h.

Fourth Term

BUS-152	Electronic Spreadsheets	3 s.h.
BUS-225	Business Internships	3 s.h.
MKT-150	Principles of Advertising.....	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.

Recommended Electives

ADM-131	Office Calculators.....	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-298	Seminar in Entrepreneurship	3 s.h.
BUS-186	Business Law II.....	3 s.h.
ECN-120	Principles of Macroeconomics	3 s.h.
ECN-130	Principles of Microeconomics	3 s.h.
MAT-710	Business & Financial Math.....	2 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.
MKT-170	Retail Buying.....	3 s.h.
SPC-111	Public Speaking	2 s.h.

For additional Business electives, see pages 134-135.

Sport Management



Did you know that "sports" is a \$200 billion dollar industry in the U.S. alone? Those dollars spell opportunity for students with a love of sports and ability to organize and manage. In the exciting Sport Management Program, which combines a solid business foundation with experiential learning, you'll be able to start your career running.

Career Opportunities:

Career opportunities include, but are not limited to:

- Athletic Director
- Municipal Parks and Recreational Sport Leadership
- Sport Management
- Sport Marketing
- Sport Facility Management
- Sport Event Management
- Tourism Director
- Community/Voluntary Agency Sport Programming

Degree Earned:

Upon completion of the prescribed curriculum with a grade point average of 2.00 (C) or above, 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.

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.
	AND	
BUS-225	Business Internships*.....	2 s.h.
	OR Business Elective(s) (3 s.h.)	
BUS-161	Human Relations.....	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.

* Business Internships may be repeated for up to six credits.

Elective Business Courses:

ACC-135	Personal Income Tax.....	3 s.h.
BCA-152	Electronic Spreadsheets	3 s.h.
BUS-121	Business Communications.....	3 s.h.
MGT-130	Principles of Supervision.....	3 s.h.
MKT-150	Principles of Advertising.....	3 s.h.

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

The Supervision and Management 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.

Career Opportunities:

Occupational titles include:

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

Strengths:

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.

Diploma Earned:

Upon satisfactory completion of the first year of the curriculum with a grade point average of 2.00 (C) or above, the student is awarded a diploma.

Career Option:

Upon completion of the prescribed curriculum with a grade point average of 2.00 (C) or above, 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

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.
	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.
	Elective(s)	3 s.h.
		16 s.h.

Total Program Hours 60 s.h.

Recommended Electives:

ACC-135	Personal Income Tax.....	3 s.h.
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 (Prereq: BUS-107 Business Careers)	1-5 s.h.
BUS-298	Seminar in Entrepreneurship	3 s.h.

For additional Business electives, see pages 134-135.

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 in Administrative Office Associate.

Career Opportunities

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

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

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	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	3 s.h.
BCA-152*	Electronic Spreadsheets	3 s.h.
BUS-107	Business Careers.....	1 s.h.
	Business Electives	8 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	Home/Office Computer Management	3 s.h.

NOTE: *Business Internships (BUS-225) is a strongly recommended Business elective. For more information, please contact Laura Merfeld at 1-888-GO NIACC, ext. 4355.*

For additional Business electives, see pages 134-135.

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.

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 Career and Internship Center or the NIACC Business Division.

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	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.
	Business Elective(s).....	3 s.h.
	Humanities Elective(s).....	3 s.h.
	Social Science Elective(s).....	3 s.h.
		15 s.h.

Fourth Term

ADM-162***	Office Procedures.....	3 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).....	2 s.h.
	Natural Science/Mathematics Elective(s).....	3 s.h.
		15 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.

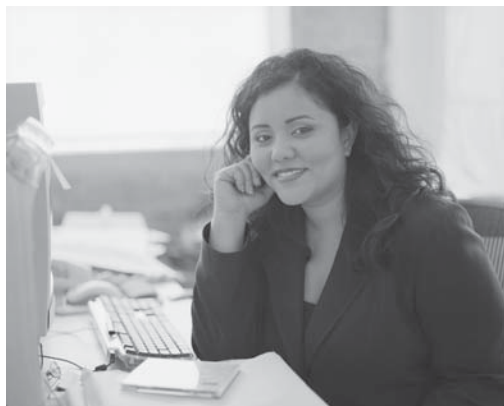
Recommended Electives:

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	Home/Office Computer Management.....	3 s.h.

NOTE: *Business Internships (BUS-225) is a strongly recommended Business elective. For more information, please contact Laura Merfeld at 1-888-GO NIACC, ext. 4355.*

For additional Business electives, see pages 134-135.

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 in Legal Office Associate.

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	3 s.h.
ADM-185	Legal Terminology and Transcription	2 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	Home/Office Computer Management	3 s.h.

NOTE: *Business Internships (BUS-225) is a strongly recommended Business elective. For more information, please contact Laura Merfeld at 1-888-GO NIACC, ext. 4355.*

For additional Business electives, see pages 134-135.

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:

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

For specific information contact the Career and Internship Center or the NIACC Business Division.

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.

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 Career and Internship Center or the NIACC Business Division.

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	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.
BUS-107	Business Careers.....	1 s.h.
ENG-103	Composition & Speech II.....	4 s.h.
	Business Elective(s).....	3 s.h.
	Humanities/Social Science Elective(s).....	6 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.
BUS-185	Business Law I.....	3 s.h.
	Business Elective(s).....	3 s.h.
	Natural Science/Mathematics Elective(s).....	3 s.h.
		15 s.h.

Fourth Term

ADM-162*	Office Procedures.....	3 s.h.
ADM-185	Legal Terminology and Transcription.....	2 s.h.
BCA-136**	Advanced Word Processing.....	3 s.h.
BCA-152***	Electronic Spreadsheets.....	3 s.h.
	Business Elective(s).....	4 s.h.
		15 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	Home/Office Computer Management.....	3 s.h.

NOTE: *Business Internships (BUS-225) is a strongly recommended Business elective. For more information, please contact Laura Merfeld at 1-888-GO NIACC, ext. 4355.*

For additional Business electives, see pages 134-135.

Medical Coding - Diploma

The Medical Coding Diploma Program is designed to prepare students to work specifically with the medical reimbursement process. The program has been developed to assist students in becoming knowledgeable in the basics of health insurance, compliance issues for insurance carriers, basic coding, and an overview of the roles and responsibilities of a medical coder.

No prerequisites required; however, knowledge of medical terminology and/or experience in a medical office or care facility is highly recommended.

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 in Medical Coding.

Career Opportunities

Medical coding is one of the fastest growing opportunities in health care. Continuous changes in the medical billing and coding industry have created an incredible demand for those trained in this area. Students completing this program will have entry-level employment opportunities as medical billers, medical coders, or other health insurance-related positions in a wide variety of medical settings including, but not limited to:

- Physician Practices
- Chiropractic Offices
- Hospitals
- Nursing Facilities
- Insurance Companies
- Billing Service Companies

For specific information contact the Career and Internship Center or the NIACC Business Division.

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-129	Basic Word Processing.....	2 s.h.
BUS-121	Business Communications.....	3 s.h.
HIT-246	Coding I (ICD-9).....	3 s.h.
HSC-120	Medical Terminology I.....	3 s.h.
HSC-144	Basic Pharmacology.....	2 s.h.
HSC-150	Body Structure & Function.....	4 s.h.
		17 s.h.

Second Term

ADM-131	Office Calculators.....	1 s.h.
ADM-215*	Medical Office Procedures.....	3 s.h.
BUS-107	Business Careers.....	1 s.h.
HIT-247	Coding II (CPT).....	3 s.h.
HSC-121	Medical Terminology II.....	3 s.h.
	Business Electives.....	2 s.h.
		13 s.h.

* Prerequisites: BCA-129 and BUS-121

Total Program Hours 30 s.h.

Recommended Electives:

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.
	OR BCA-101 Introduction to Computers and Information Systems (3 s.h.)	
BUS-161	Human Relations.....	3 s.h.
BUS-225	Business Internships.....	1-5 s.h.

NOTE: *Business Internships (BUS-225) is a strongly recommended Business elective. For more information, please contact Laura Merfeld at 1-888-GO NIACC, ext. 4355.*

For additional Business electives, see pages 134-135.



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 in Medical Office Associate.

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 Career and Internship Center or the NIACC Business Division.



Required Courses/Suggested Schedule

First Year

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-144	Basic Pharmacology.....	2 s.h.
HSC-150	Body Structure & Function.....	4 s.h.
		14 s.h.

Second 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.
ADM-215**	Medical Office Procedures.....	3 s.h.
BUS-107	Business Careers.....	1 s.h.
HIT-210*	Basic Medical Insurance & Coding.....	2 s.h.
	OR HIT-246, Coding I (3 s.h.) and HIT-247, Coding II (3 s.h.)	
HSC-121	Medical Terminology II.....	3 s.h.
		16 s.h.

* Prerequisites: HSC-150 and HSC-120

** Prerequisites: BCA-129 and BUS-121

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

Total Program Hours

30 s.h.

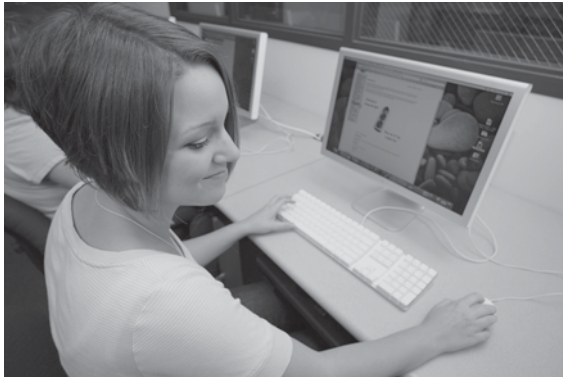
Business Internships

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.

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.

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.
ENG-102	Composition & Speech I	4 s.h.
HSC-144	Basic Pharmacology	2 s.h.
HSC-150	Body Structure & Function.....	4 s.h.
		16 s.h.

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

Second Term

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-107	Business Careers.....	1 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-129	Basic Word Processing.....	2 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.
		14 s.h.

Fourth Term

ADM-215***	Medical Office Procedures	3 s.h.
BCA-136*	Advanced Word Processing.....	3 s.h.
BCA-152****	Electronic Spreadsheets	3 s.h.
HSC-121	Medical Terminology II	3 s.h.
HIT-210**	Basic Medical Insurance & Coding	2 s.h.
	OR HIT-246, Coding I (3 s.h.) and HIT-247, Coding II (3 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

**** Prerequisite: BCA-215 or BCA-101

Total Program Hours

60 s.h.

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 Career and Internship Center or the NIACC Business Division.

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 in Medical Transcription.

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-144	Basic Pharmacology.....	2 s.h.
HSC-150	Body Structure & Function.....	4 s.h.
		17 s.h.

Second Term

BUS-107	Business Careers.....	1 s.h.
HSC-121	Medical Terminology II.....	3 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 (Strongly recommend BIO-206, Anatomy & Physiology I).....		1 s.h.
		13 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 Career and Internship Center or the NIACC Business Division.



Software Applications Specialist - Certificate

The Software Applications Specialist - Certificate is designed to expose students to Microsoft software.

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 Specialization 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 areas:

- Software Specialist
- Help Desk Support

For more specific information contact the Career and Internship Center or the NIACC Business Division.



Early Childhood Education

**Health, Wellness,
and Leisure Services**

**Family,
Human,
and Leisure
Services
Programs**

Human Services

FAMILY, HUMAN, AND LEISURE SERVICES

John Schmaltz, Division Chair
 (641)422-4323
 schmajoh@niacc.edu

Early Childhood Education - Diploma

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.

Career Opportunities

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

- Child Care Centers
- Preschools
- In-home Day Care Centers



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-159	Early Childhood Curriculum II	3 s.h.
ECE-170	Child Growth and Development.....	3 s.h.
ECE-243	Early Childhood Guidance	3 s.h.
EDU-235	Children's Literature	3 s.h.
EDU-246	Including Exceptional Students.....	3 s.h.

Suggested Electives - 6 s.h. needed

ART-102	Art for Elementary Education	3 s.h.
BIO-123	Inquiry Into Life Science.....	4 s.h.
EDU-216	Introduction to Teaching.....	3 s.h.
EDU-219	Field Experience and Seminar.....	1 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.

Health, Wellness, and Leisure Services

The Health, Wellness, and Leisure Services program prepares students for direct employment or ongoing study in these fields. Graduates may find employment working with people of all ages with diverse backgrounds in such areas as health and fitness, municipal parks, commercial recreation, nonprofit settings, community agencies, tourism, and outdoor recreation. The program focuses on direct service programming as it relates to health, wellness, and leisure activities for both the individual and groups.

Students interested in careers in Health, Wellness, and Leisure Services may select from the following options: 1) an A.A. degree with a Physical Fitness and Wellness Certificate; 2) an A.A.S. degree in Health, Wellness, and Leisure Services; 3) a Physical Fitness and Wellness Diploma; or 4) a Physical Fitness and Wellness Certificate.

A.A. Degree with Physical Fitness and Wellness Certificate

An A.A. degree option with a Wellness certificate is designed to be the first two years of a transfer program in a related field. The certificate provides background in personal health and wellness designed to strengthen a student's experience in the area.

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 Physical Fitness and Wellness Certificate.

General Education Core Requirements

BIO-151	Nutrition.....	3 s.h.
BIO-152	Health & Nutrition.....	3 s.h.
BIO-206	Anatomy & Physiology I.....	4 s.h.
	OR HSC-150, Body Structure & Function * (4 s.h.)	
ENG-102	Composition & Speech I.....	4 s.h.
ENG-103	Composition & Speech II.....	4 s.h.
MAT-156	Introduction to Statistics**.....	3 s.h.
PEA-146	Physical Fitness.....	1 s.h.
PEA-147	Physical Fitness Lab.....	1 s.h.
PSY-121	Developmental Psychology.....	3 s.h.
PSY-223	Child & Adolescent Psychology.....	3 s.h.
	Business Elective.....	3 s.h.
	Physical Education/Activities Electives.....	2 s.h.
	Humanities Elective(s).....	9 s.h.
	Social Science Elective(s).....	3 s.h.
	Humanities/Social Science/Natural Science/Math Elective(s).....	2-3 s.h.

* If completing HSC-150 instead of BIO-206, you will need to complete additional general education electives.

** May need to start with an appropriate level math class first.

General Education courses must total at least 40 semester hours to meet A.A. degree requirements.

See *Physical Fitness and Wellness Certificate Requirements* on page 66.

Health, Wellness, and Leisure Services - A.A.S. Degree

(Pending approval by the Iowa Department of Education.)

The A.A.S. degree option is intended to provide students with the training to enter the job market in the field of Health, Wellness, and Leisure Services.

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 Degree.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

BIO-152	Health & Nutrition.....	3 s.h.
ENG-102	Composition & Speech I.....	4 s.h.
PEH-111	Personal Wellness.....	3 s.h.
PEH-161	Introduction to Physical Education.....	2 s.h.
PSY-121	Developmental Psychology.....	3 s.h.
	Physical Education/Activities Elective.....	1 s.h.
		16 s.h.

Second Term (Spring Semester)

BUS-107	Business Careers.....	1 s.h.
ENG-103	Composition & Speech II.....	4 s.h.
PEA-146	Physical Fitness.....	1 s.h.
PEA-147	Physical Fitness Lab.....	1 s.h.
PEH-140	First Aid.....	1 s.h.
PEH-221	Introduction to Leisure Services.....	3 s.h.
	Physical Education/Activities Elective.....	1 s.h.
	Recommended Elective(s).....	3 s.h.
		15 s.h.

Second Year

Third Term (Fall Semester)

BUS-161	Human Relations.....	3 s.h.
BUS-225	Business Internship.....	1-2 s.h.
HSC-150	Body Structure & Function.....	4 s.h.
	OR BIO-206, Anatomy & Physiology I (4 s.h.)	
MGT-220	Introduction to Sports Management.....	3 s.h.
PEC-166	Sports Officiating: Fall & Winter Sports.....	2 s.h.
PSY-223	Child & Adolescent Psychology.....	3 s.h.
		16-17 s.h.

Fourth Term (Spring Semester)

BIO-151	Nutrition.....	3 s.h.
	OR BIO-207, Anatomy & Physiology II (4 s.h.)	
BUS-225	Business Internship.....	1-2 s.h.
MGT-221	Current Issues in Sport.....	3 s.h.
PEC-127	Care & Prevention of Athletic Injuries.....	2 s.h.
PEC-168	Games & Officiating: Spring & Summer Sports.....	2 s.h.
	Recommended Elective(s).....	3 s.h.
		14-16 s.h.

Total Program Hours 61-64 s.h.

Recommended Electives:

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.

HSC-108	Introduction to Health Professions.....	2 s.h.
MAT-156	Introduction to 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.
PEC-110	Coaching Ethics, Techniques, & 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.
PEH-180	Rape Education and Self Defense.....	2 s.h.
PTA-120	Kinesiology.....	3 s.h.
SOC-215	Prime for Life: Substance Abuse.....	1 s.h.

Physical Fitness and Wellness Diploma

(Pending approval by the Iowa Department of Education.)

The intent of the Physical Fitness and Wellness diploma is to provide a foundation for students interested in group fitness and/or becoming a personal trainer. National Certification is available through the American Council of Exercise (ACE).

Upon completion of the curriculum with a grade point average of 2.00 (C), the student is awarded a Physical Fitness and Wellness Diploma.

Required Courses/Suggested Schedule

First Term (Fall Semester)

BUS-107	Business Careers.....	1 s.h.
BUS-161	Human Relations.....	3 s.h.
HSC-150	Body Structure & Function.....	4 s.h.
PEA-146	Physical Fitness.....	1 s.h.
PEA-147	Physical Fitness Lab.....	1 s.h.
PEH-111	Personal Wellness.....	3 s.h.
	Elective(s).....	3 s.h.
		16 s.h.

Second Term (Spring Semester)

BIO-151	Nutrition.....	3 s.h.
BUS-225	Business Internship.....	2 s.h.
MKT-110	Principles of Marketing.....	3 s.h.
PEC-127	Care & Prevention of Athletic Injuries.....	2 s.h.
PEH-140	First Aid.....	1 s.h.
	Physical Education/Activities Elective.....	1 s.h.
	Elective(s).....	3 s.h.
		15 s.h.

Total Program Hours 31 s.h.

Recommended Electives:

BUS-134	The Successful Entrepreneur.....	2 s.h.
BUS-136	Creativity, Innovation and Opportunity Analysis.....	2 s.h.
PEH-221	Introduction to Leisure Services.....	3 s.h.

Physical Fitness and Wellness Certificate

(Pending approval by the Iowa Department of Education.)

The Physical Fitness and Wellness certificate is intended for individuals desiring an introduction to health and wellness. It may be taken in combination with the A.A. degree.

Upon completion of the curriculum with a grade point average of 2.00 (C), the student is awarded a Physical Fitness and Wellness Certificate.

Required Courses

BIO-151	Nutrition.....	3 s.h.
BUS-107	Business Careers.....	1 s.h.
BUS-225	Business Internship.....	1-2 s.h.
PEH-140	First Aid.....	1 s.h.
PEA-146	Physical Fitness.....	1 s.h.
PEA-147	Physical Fitness Lab.....	1 s.h.
PEC-122	Anatomy & Physiology for Coaching*.....	1 s.h.
PEC-127	Care & Prevention of Athletic Injuries.....	2 s.h.
PEH-111	Personal Wellness.....	3 s.h.
	Physical Education/Activities Electives**.....	2 s.h.
	Total Hours.....	16-17 s.h.

* HSC-150, Body Structure & Function, or BIO-206, Anatomy & Physiology I, may be substituted.

** Recommended: PEH-221, Introduction to Leisure Services

Coaching Authorization

A coach is a person who holds a coaching authorization or coaching endorsement from the Iowa Board of Educational Examiners, and who diagnoses, prescribes, evaluates, assists, or directs student learning of an interscholastic athletic endeavor at a practice session or on the field of competition. The coaching authorization class sequence is offered twice per year outside of the regular school calendar.

Upon completion of the curriculum, the student shall submit records of credit to:

Department of Practitioner Preparation and Licensure
Department of Education
Grimes State Office Building
Des Moines, IA 50319
Phone: 515-281-3245

For additional information, please see the Iowa Department of Education web site: <http://www.iowa.gov/educate/>

Required Courses

PEC-110	Coaching, Ethics, Techniques, & Theories.....	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.
	Total Hours.....	5 s.h.

Human Services

A.A. Degree with Human Services Certificate

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.



General Education Core Requirements

ENG-102	Composition & Speech I	4 s.h.
ENG-103	Composition & 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 (Spanish Recommended)	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.
SDV-210	Cooperative Education Internship	1 s.h.
	OR SOC-881 Social Responsibility and Community Service (2 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: Substance Abuse	1 s.h.

Career Opportunities

- Social Work Associate
- Case Aide
- Parent-skill Worker
- Family Support Advocate
- Residential Treatment Associate
- Long-term Care Facility Associate
- Early Childhood Assistant
- Youth Counselor



**Medical
Assistant**

**Physical Therapist
Assistant**

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Health Program Clusters

**Radiologic
Technology**

Nursing

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

Health Related Options

- Medical Laboratory Technician
- Medical Coding
- Medical Office Associate
- Medical Office Specialist
- Medical Transcription

HEALTH

Donna Orton, Division Chair
 (641) 422-4216
 ortondon@niacc.edu

NURSING

Nursing Associate Degree - page 74

Practical Nursing Diploma - page 78

MEDICAL ASSISTANT - page 72

PHYSICAL THERAPIST ASSISTANT - page 80

RADIOLOGIC TECHNOLOGY - page 82

HEALTH RELATED OPTIONS

Medical Laboratory Technician Degree - page 73

Medical Coding - page 58

Medical Office Associate - page 59

Medical Office Specialist - page 60

Medical Transcription - page 61



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 NIACC Medical Assistant Diploma Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org), 1361 Park Street, Clearwater, FL 33756 (phone: (727) 210-2350), upon the recommendation of the Curriculum Review Board of the American Association of Medical Assistants Endowment (AAMAE).

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 & Coding	2 s.h.
MAP-358	Clinical Procedures II	5 s.h.
BUS-107	Business Careers	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.
	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-105	Composition 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.
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.

Nurse Aide Training:

Successfully complete the 75-hour Nurse Aide Training course (HSC-171 and HSC-174) or its equivalent, submit proof of successful completion of Nurse Aide written and skills tests for placement on the Direct Care Worker Registry and provide a current CNA certification card.

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 a college equivalent math course (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 a college chemistry course (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)

Computer Technology/Course Recommendations:

Four to six semesters of high school English and four to six semesters of social studies are strongly recommended.

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.

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.

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

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, and 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.

Any transfer student applying for admission, who has been enrolled in a nursing curriculum other than NIACC, will be required to meet with the Division Chair to discuss placement in the curriculum. Course syllabi and clinical site information from the transferring institution will be required for review. The student will also be requested to provide written authorization allowing contact with instructors from the transfer institution regarding theory and clinical performance. Information acquired from these contacts will be considered in acceptance and proper placement into a NIACC nursing curriculum.

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.

** Anatomy and Physiology I and II must be completed within five years of beginning 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. 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.

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
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.

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.

Any transfer student applying for admission, who has been enrolled in a nursing curriculum other than NIACC, will be required to meet with the Division Chair to discuss placement in the curriculum. Course syllabi and clinical site information from the transferring institution will be required for review. The student will also be requested to provide written authorization allowing contact with instructors from the transfer institution regarding theory and clinical performance. Information acquired from these contacts will be considered in acceptance and proper placement into a NIACC nursing curriculum.

ADN Option for Licensed Practical Nurses (Continued)

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.

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.
BIO-206	Anatomy & Physiology I and Lab**	4 s.h.
BIO-207	Anatomy & Physiology II and Lab**	4 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.

** Must be taken within 5 years of beginning the Nursing II or III course.

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.

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

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. 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.

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.

Nurse Aide Training:

Successfully complete the 75-hour Nurse Aide Training course (HSC-171 and HSC-174) or its equivalent, submit proof of successful completion of Nurse Aide written and skills tests for placement on the Direct Care Worker Registry and provide a current CNA certification card.

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.

Any transfer student applying for admission, who has been enrolled in a nursing curriculum other than NIACC, will be required to meet with the Division Chair to discuss placement in the curriculum. Course syllabi and clinical site information from the transferring institution will be required for review. The student will also be requested to provide written authorization allowing contact with instructors from the transfer institution regarding theory and clinical performance. Information acquired from these contacts will be considered in acceptance and proper placement into a NIACC nursing curriculum.

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.

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.

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

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)

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)

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)

PTA-300**	Introduction to the Clinic (1 week)	1 s.h.
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-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. Kinesiology and Developmental Processes can be taken by students not yet in the program only if the class is not full.

++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.

Radiologic Technology

(Pending approval by the Iowa Department of Education.)

A Radiologic Technology Program prepares radiographers to take radiographs of all parts of the human body for the purpose of diagnosing medical problems. Radiographers position the patients, who either lie on a table, sit, or stand, so that the correct parts of the body can be radiographed. In addition, radiographers may take portable radiographs in areas of the hospital that include the emergency room, operating room, intensive care unit, and patient care units. Radiologic Technologists work with ionizing radiation and learn proper procedures to protect themselves and their patients from unnecessary radiation exposure. The radiographer must use sterile technique, maintain records, assist with special procedures such as arteriograms, and administer opaque media via multiple routes, including intravenous routes. Transfer and positioning activities are integrated throughout the program. Radiographers must be reliable, have mechanical aptitude and possess good communication skills.

An Associate in Applied Science (A.A.S.) degree in Radiologic Technology will be granted for students who complete degree requirements. This degree will be granted exclusively to students enrolled in the Mercy Medical Center-North Iowa Radiologic Technology curriculum. The program is designed to be completed within the required two-year time period.



Entrance Requirements

The applicant must complete the application process through the Mercy Medical Center - North Iowa Program Leader (641-422-6079) or the NIACC health professions counselor located in the Student Services Office.

Application Information - Class Beginning August 2009

IN ORDER TO APPLY, the following must be met:

1. All applicants MUST be United States citizens or permanent residents.
2. At least 18 years of age (according to NCRP regulations) by the start date of the program.
3. Graduation from an accredited high school or have passed a standard equivalent program.
4. Completion of the following classes with a minimum of a C is MANDATORY:
Biology (1 full year high school or 1 semester college)
Chemistry OR Physics (1 full year high school or 1 semester college).
5. Attendance at one of the information sessions held by the school.
6. Must meet the requirements of the physical demands worksheet.

PRIORITY CONSIDERATION will be given to applicants who meet or exceed the following:

1. A minimum cumulative GPA of 2.5 for high school.
2. A minimum cumulative GPA of 2.5 for any college course.
3. A minimum score of 18 on the ACT test.
4. Have taken the following math or science courses with a minimum grade of C in either high school or college:
 - Geometry
 - Anatomy/Physiology
 - Other math or science courses.
5. Health care experience.
6. Have completed the required three college level courses: Medical Terminology I (not considered part of the required general education courses, but is required for the program), math, and communication courses (developmental courses cannot be used to meet this requirement).
7. Have completed additional college-level general education courses.

Candidates for admission will be granted an interview. All persons choosing to attend the program will be required to pass a physical exam, a drug test and a criminal background check no sooner than 30 days prior to the start of the technical courses in the curriculum.

PROGRAM COMPLETION: The Joint Review Committee on Education in Radiologic Technology has mandated new requirements. You will be required to have a total of 16 hours of college level general education courses (developmental courses do NOT qualify) and 3 hours of Medical Terminology in order to graduate from our program with a certificate of completion. It is recommended that you have as many as possible of the required 19 hours completed prior to beginning the program. If the required 19 hours are not completed prior to the program graduation date, a certificate of completion will not be issued. If you already have a degree or significant college-level courses, please contact us for a transcript review as you may already meet the requirements. If the general education courses are not taken at NIACC, the student will need to complete 19 hours additional from NIACC to receive the A.A.S. degree.

General education credits needed in addition to the math and communication courses (listed in item 6) could include courses in the following categories:

• Arts & Humanities	3 hours
• Social/Behavioral Science courses	3 hours
• Natural Sciences	3 hours

An A.A. degree may also be obtainable from NIACC with the completion of additional general education credits if the agreement is made. The A.A.S. degree and A.A. degree options are contingent upon Department of Education approval.

Radiologic Technology (Continued)

Required Courses/Suggested Schedule

First Year

First Term (Fall)

	Radiation Protection (MMC-NI)*	
	Introduction to Radiologic Technology and Patient Care (MMC-NI)*	
	Medical Ethics and Legal Concerns (MMC-NI)*	
	Radiographic Image Critique I (MMC-NI)*	
	Customer Service (MMC-NI)*	
	Radiographic Anatomy and Positioning I (MMC-NI)*	
	Radiographic and Positioning I Lab (MMC-NI)*	
ENG-102	Composition and Speech I (NIACC)	4 s.h.
HSC-120	Medical Terminology (NIACC)	3 s.h.
	Clinical I (MMC-NI)*	

Second Term (Spring)

	Radiographic Physics (MMC-NI)*	
	Radiographic Exposure (MMC-NI)*	
	Radiation Protection and Biology (MMC-NI)*	
	Radiographic Image Critique II (MMC-NI)*	
	Radiographic Anatomy and Positioning II (MMC-NI)*	
	Radiographic Anatomy and Positioning II Lab (MMC-NI)*	
MAT-110	Math for Liberal Arts (NIACC)	3 s.h.
	OR MAT-121, College Algebra (4 s.h.)	
	OR MAT-156, Introduction to Statistics (3 s.h.)	
	Clinical II (MMC-NI)*	

Third Term (Summer)

	Clinical III (MMC-NI)*	
	Social Science/Natural Science/Humanities Elective(s) (NIACC)	3-6 s.h.
	May choose from the following but must total at least 9 s.h. by completion of senior year:	
	PHI-105, Introduction to Ethics (3 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.)	
	BIO-102, Introductory Biology (3 s.h.)	
	BIO-206, Anatomy and Physiology I (4 s.h.)	

Second Year

Fourth Term (Fall)

	Case Review (MMC-NI)*	
	Radiographic Pathology I (MMC-NI)*	
	Radiographic Image Processing (MMC-NI)*	
	Pharmacology for Radiographers (MMC-NI)*	
	Radiographic Anatomy and Positioning III (MMC-NI)*	
	Radiographic Anatomy and Positioning III Lab (MMC-NI)*	
	Social Science/Natural Science/Humanities Elective(s) (NIACC)	3-6 s.h.
	May choose from the following but must total at least 9 s.h. by completion of senior year:	
	PHI-105, Introduction to Ethics (3 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.)	
	BIO-102, Introductory Biology (3 s.h.)	
	BIO-206, Anatomy and Physiology I (4 s.h.)	
	Clinic IV (MMC-NI)*	

*After completion of these courses, 40 credit hours will be transferred from Mercy Medical Center - North Iowa School of Radiologic Technology to NIACC towards completion of the A.A.S. Degree in Radiologic Technology.

Fifth Term (Spring)

RAD-725	Imaging Quality Management (MMC-NI)	1 s.h.
RAD-755	Radiographic Pathology II (MMC-NI)	2 s.h.
RAD-726	Imaging Equipment (MMC-NI)	1 s.h.
RAD-900	Registry Review (MMC-NI)	3 s.h.
RAD-765	Radiographic Anatomy and Positioning IV (MMC-NI)	2 s.h.
RAD-766	Radiographic Anatomy and Positioning IV Lab (MMC-NI)	0.5 s.h.
RAD-575	Clinical V (MMC-NI)	9 s.h.
		18.5 s.h.

Sixth Term (Summer)

RAD-576	Clinical VI (MMC-NI)	5 s.h.
		5 s.h.

Total Program Hours 82.5 s.h.



Career Opportunities

Radiologic Technologists work for:

- Hospitals
- Privately owned facilities
- Physician's offices that provide radiological services

Regional Health

Career Programs

A.A.S. Paramedic

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

Nurse Aide

Medication Aide

Regional Health Programs

Activity Coordinator

Supervising in Healthcare

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)

ACTIVITY COORDINATOR

MEDICATION AIDE

NURSE AIDE

SUPERVISING IN HEALTHCARE



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, EMT-I, 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 background checks will be included in tuition costs. All other costs 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 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 background checks will be included in tuition costs. All other costs 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.

Activity Coordinator

The Activity Coordinator course (HSC-185) prepares the participant to function as an entry-level activity coordinator in a long-term care facility. (4 s.h.) (No prerequisites.)

Medication Aide

The Medication Aide course (HSC-179) prepares people to safely administer non-parenteral medications in nursing facilities and related areas. The emphasis is on safe administration of medications. It qualifies the aide to administer medications in long-term care, residential care, nursing, skilled, adult day care, and assisted living facilities. (3 s.h.)

Prerequisites:

1. If employed in a certified nursing facility -- minimum of 6 months employment by facility sponsor, must be on the Iowa Direct Care Workers Registry, must provide documentation from administrator of facility in which he/she is employed.
2. If employed in residential or related type of licensed facility -- minimum of 6 months employment by facility sponsor, must provide evidence of successful completion

of residential attendant course, must provide documentation from administrator of facility in which he/she is employed.

3. If employed in assisted living program, must provide documentation from administrator of facility in which he/she is employed, strongly recommended to have completed 75-hour Nurse Aide course or Residential Attendant course.
4. Have aptitude for reading, writing, and mathematics.

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 Direct Care Worker Registry. Placement on the Iowa Direct Care Worker 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 will be required and the cost will be included in tuition costs.

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

Nurse Aide - Related Courses

HSC-171	Nurse Aide Theory.....	2 s.h.
HSC-174	Nurse Aide Clinical.....	1 s.h.

Supervising in Healthcare

The Supervising in Healthcare course (HSC-290) enables the nurse to gain knowledge and develop skills in managing personnel and clients in healthcare facilities. The course focuses on supervisory skills for nurses in long-term care facilities. (3 s.h.)

Prerequisites:

1. Current RN or LPN

Industrial Division

Transfer Degree

Career Programs

Construction Technology

- Building Trades/Carpentry
- Building Trades/Masonry

Precision Production Technology

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

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

Joshua Byrnes, Agriculture and Industrial Division Chair

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byrnejos@niacc.edu

CONSTRUCTION TECHNOLOGY

Building Trades/Carpentry - page 92

Building Trades/Masonry - page 92

MECHANICAL TECHNOLOGY

Automotive Service Diploma - page 91

Automotive Service Technology Degree - page 91

Climate Control (HVAC) Mechanics Diploma - page 93

Climate Control (HVAC) Technology Degree - page 93

PRECISION PRODUCTION TECHNOLOGY

General Machinist Diploma - page 95

Tool and Die Technology Degree - page 95

Welding Diploma - page 97

ENGINEERING RELATED TECHNOLOGY

Electromechanical Systems Technology - page 94

Industrial Technology - page 96

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.



Industrial Technology Endorsement

Students who show responsible attendance, use proper communication, dress appropriately, and show soft skill proficiency will be awarded an Industrial Certificate to verify to future employers that they not only have the technical skills but personal skills to be successful employees.

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.

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 Transmissions & 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 enter the Building Trades Program in the Fall semester.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

BCA-100	Computer Literacy.....	1 s.h.
CON-107	Construction Safety.....	2 s.h.
CON-110	Construction Drawing.....	1 s.h.
CON-121	Carpentry Fundamentals I.....	4 s.h.
CON-123	Carpentry Fundamentals II.....	4 s.h.
MAT-770	Applied Math I.....	2 s.h.
MAT-771	Applied Math II.....	2 s.h.
		16 s.h.

Second Term (Spring Semester)

CON-112	Blueprint Reading and Estimating.....	3 s.h.
CON-255	Carpentry I.....	4 s.h.
CON-256	Carpentry II.....	4 s.h.
ENG-701	Communications I.....	3 s.h.
SDV-135	Job Seeking Skills.....	1 s.h.
		15 s.h.

Third Term (Summer)

CON-117	Building Codes and Standards.....	2 s.h.
SDV-210	Cooperative Education Internship.....	5 s.h.
		7 s.h.

Total Program Hours 38 s.h.

Other Elective Carpentry Courses:

CAD-216	Architectural CADD.....	2 s.h.
CON-305	Cabinetry and Millwork.....	3 s.h.
CON-315	Guitar Building.....	2 s.h.
CON-949	Special Topics in Carpentry.....	1 to 4 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 Formwork
- Framing
- Exterior Finish
- Interior Finish
- Interior Systems
- Cabinetry and Millwork

For specific information contact the Career and Internship Center or the NIACC Industrial Division.

Climate Control (HVAC) 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 (HVAC) Mechanics, which leads to a diploma with an emphasis in residential heating and air-conditioning or a program in Climate Control (HVAC) 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 (HVAC) 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 (HVAC) 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 (HVAC) 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 Career and Internship 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-806	Controls I	3 s.h.
HCR-807	Controls II	3 s.h.
		18 s.h.

Fourth Term (Spring Semester)

BUS-161	Human Relations	3 s.h.
ENG-702	Communications II	3 s.h.
HCR-235	Commercial Air-Conditioning Systems	5 s.h.
HCR-923	Systems Design	3 s.h.
SDV-135	Job Seeking Skills	1 s.h.
SDV-210	Cooperative Education Internship	2 s.h.
		17 s.h.

Total Program Hours 65 s.h.

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.

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.



Through proper course selection, students may tailor their course selection to meet Wind Industry standards to obtain a position as a wind turbine technician. See your counselor for additional information.

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 Career and Internship 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-335	Ag 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 satisfactory completion of MAT-770, MFG-195, and eight semester hours of selected industrial electives, students may be awarded a certificate in Industrial Technology. The Industrial Technology certificate provides a basic technical background in a variety of disciplines related to industry. Industrial technologists work with production teams, entry-level foremen, and supervisors in manufacturing facilities. This certificate can apply toward a diploma or degree in Industrial Technology.

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 & 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-335	Ag 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 (HVAC) Technology
- Building Trades
- Automotive Technology

Students must have approval of program faculty for specializations.

Welding



Welding is a two-semester diploma program designed for individuals seeking skill development and certification in common welding procedures leading to employment in a variety of industries. The program is recognized as an Institutional Member of the American Welding Society and upon completion of all coursework, AWS Certification can be attained. The program's outlined competencies are achieved through a combination of classroom theory, welding demonstration, and practice. Primary emphasis is placed upon hands-on skill development in a state-of-the-art lab facility. Through completion of the program, students gain competency in arc, gas, and automated welding and cutting processes.

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

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

CON-107	Construction Safety.....	2 s.h.
WEL-110	Welding Blueprint Reading.....	2 s.h.
WEL-138	Oxy-acetylene Welding and Cutting.....	2 s.h.
WEL-222	Arc Welding I.....	9 s.h.
MAT-770	Applied Math I.....	2 s.h.
MAT-771	Applied Math II.....	2 s.h.
		19 s.h.

Second Term (Spring Semester)

BCA-119	Computer Orientation.....	1 s.h.
ENG-701	Communications I.....	3 s.h.
SDV-135	Job Seeking Skills.....	1 s.h.
WEL-223	Arc Welding II.....	9 s.h.
WEL-240	Welding Fabrication/Certification.....	3 s.h.
WEL-250	Welding Automation.....	2 s.h.
		19 s.h.

Total Program Hours 38 s.h.

Other Elective Welding Course:

WEL-108	Oxy-acetylene Welding and Cutting and Shielded Metal Arc Welding.....	2 s.h.
WEL-109	Gas Metal Arc Welding and Gas Tungsten Arc Welding.....	2 s.h.
WEL-335	Ag and Industry Welding.....	2 s.h.

Career Opportunities

Completion of this program prepares graduates to enter the following occupations:

- Production Welder
- Maintenance Welder
- Robot Operator
- Building/Structural Welder
- Ag/Construction Equipment Repair Technician
- Fabricator

Industries that use welding:

- Agriculture
- Manufacturing
- Automotive
- Construction
- Mining
- Utilities

For specific information contact the Career and Internship Center or the NIACC Industrial Division.



Criminal Justice

**Public
Service
Programs**

Fire Science

PUBLIC SERVICE



Criminal Justice

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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.

Career Opportunities

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

- Police Departments
- Sheriff's Offices
- Corrections
- Highway Patrols
- Private Investigation Services
- Loss Prevention
- Industrial Security

For specific information contact the Career and Internship Center.

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-110	Patrol Procedures	3 s.h.
CRJ-130	Criminal Law	3 s.h.
CRJ-141	Criminal Investigation	3 s.h.
CRJ-105	Intermediate Criminal Investigation.	3 s.h.
CRJ-216	Employment Strategies for Criminal Justice.	1 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.

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

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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 Career and Internship Center.

School Partnerships

ARTICULATION

POST SECONDARY ENROLLMENT OPTIONS

ON SITE CLASSES

CAREER READINESS COUNCIL

CAREER LINK AND CAREER LINK 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.

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 Link Programs and Classes

Career Link programs and classes are educational partnerships between high schools and NIACC. Career Link focuses on providing students with skills needed to perform in today's workforce. A major component 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. Student career exploration and planning, along with a parental community awareness of workforce needs and employment opportunities, are vital components of a Career Link program.

Career Link programs include:

- Accounting and General Business
- Agriculture
- Automotive Service Technology
- Building Trades
- Climate Control (HVAC) Technology
- E-Commerce, Web Design and Development
- Electromechanical Systems
- Entrepreneurship
- Health Careers
- Hospitality and Food Service Management
- Information Technology
- Marketing Management
- Professional Administration Services
- Retail Management
- Sport Management
- Teacher Education
- Tool & Die Technology
- Welding

In addition to the on-campus programs, Career Link Academies are located across North Iowa. Students from surrounding high schools travel to the Career Link Academy where they complete up to one year of college credit during their senior year.

NIACC has established Career Link 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; Hampton-Dumont High School and ABCM Care Center.

Information Technology - Mason City High School, Garner-Hayfield High School

Business and Information Technology - Charles City High School, Hampton-Dumont High School

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.

For information about the Career Link programs and classes 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. Website: www.niacc.edu/careerlink

College Transfer Programs

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

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

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

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



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Accounting

Grand View College

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

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

Agriculture and Agricultural Related

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

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

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

Iowa State University

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

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

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

Art

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

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

Drake University

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

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

Upper Iowa University

RESIDENTIAL CAMPUS

Students should consider taking the following courses to meet requirements.

Art History I and II	8 s.h.
Drawing	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.
Care & Prevention of Athletic Injuries	2 s.h.

Other recommended courses:

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

Biology*Grand View College*

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

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

Upper Iowa University

RESIDENTIAL CAMPUS

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

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

Biology and Environmental Science*Simpson College*

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

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

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

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

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

Business

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

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

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

In addition, these colleges have the following specific requirements:

Buena Vista University (Mason City Campus)

ACCOUNTING

Business Law I.....	3 s.h.
Finite Math	3 s.h.
Principles of Marketing	3 s.h.
Principles of Management	3 s.h.

MANAGEMENT/ ENTREPRENEURSHIP

Principles of Management	3 s.h.
Business Law I.....	3 s.h.
Finite Math	3 s.h.
Human Resource Management	3 s.h.
Principles of Marketing	3 s.h.
Personal Finance	3 s.h.

FINANCE AND BANKING

Finite Math	3 s.h.
Business Law I.....	3 s.h.
Principles of Marketing	3 s.h.
Principles of Management	3 s.h.

MANAGEMENT INFORMATION SYSTEMS

Finite Math	3 s.h.
Business Law I.....	3 s.h.
Principles of Marketing	3 s.h.
Management Information Systems (recommended).....	3 s.h.
Principles of Management	3 s.h.

Drake University

BUSINESS

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

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

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

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

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

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

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

Grand View College

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

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

Iowa State University

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

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

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

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

Minnesota State University - Mankato

ACCOUNTING, FINANCE, MANAGEMENT, MARKETING, AND INTERNATIONAL BUSINESS

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

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

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

Simpson College

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

MANAGEMENT ACCOUNTING & ECONOMICS

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

The University of Iowa (Min. 2.75 GPA)

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

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

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

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

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

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

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

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

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

University of Northern Iowa (Min. 2.50 GPA)

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

Business Statistics	3 s.h.
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BUSINESS TEACHING MAJOR

Introduction to Teaching	3 s.h.
OR Field Experience and Seminar (1 s.h.)	
Developmental Psychology	3 s.h.
Computer Business Applications	3 s.h.
Business Statistics	3 s.h.
Including Exceptional Students	3 s.h.
Educational Media and Classroom Computing Techniques	3 s.h.

Upper Iowa University

RESIDENTIAL CAMPUS

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

MARKETING MAJOR

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

ACCOUNTING MAJOR

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

MANAGEMENT MAJOR

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

MIS MAJOR

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

Waldorf College

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

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

*Wartburg College***ACCOUNTING, FINANCE**

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

MANAGEMENT, MARKETING

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

INTERNATIONAL BUSINESS

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

Chiropractic

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

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

Coaching

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

Iowa State University

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

Simpson College

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

Communications*Waldorf College*

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

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

Computer Information Systems

Waldorf College

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

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

Computer Science

Drake University

COMPUTER SCIENCE

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

Calculus I and II	8 s.h.
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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	4 s.h.
Business Statistics or Introduction to Statistics	3 s.h.
Java	4 s.h.

University of Northern Iowa

COMPUTER SCIENCE

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

B.A. Degree: (select two)

Calculus I
Calculus II

Introduction to Statistics.....7-8 s.h.

B.S. Degree:

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

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

COMPUTER INFORMATION SYSTEMS

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

Principles of Accounting I and 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 Problems.....3 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 Justice3 s.h.
American National Government.....3 s.h.
Introduction to Statistics.....3 s.h.

Simpson College

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

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

Business Statistics or Introduction to 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.
Developmental Psychology.....3 s.h.

Criminology

Upper Iowa University

RESIDENTIAL CAMPUS

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

Introduction to Sociology3 s.h.
Social Problems3 s.h.
Criminal Law3 s.h.

Dentistry

The University of Iowa

Each applicant for the College of Dentistry at the University of Iowa must present three years of credit comprising not less than 90 semester hours of work. No more than 60 semester hours will be accepted from a two-year institution. Preference for admission is given to students who have completed a standard baccalaureate degree or who are pursuing a combined program in which they will earn the baccalaureate degree while completing their first

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

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

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

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

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

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

Education

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

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

Buena Vista University

ELEMENTARY EDUCATION

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

Children's Literature	3 s.h.
U.S. History or Non U.S. History	3 s.h.
American Government	3 s.h.
Geography course	3 s.h.
Music Appreciation OR Art Appreciation OR Introduction to Theater OR Art History	3 s.h.
*Physical Science OR Introduction to General Chemistry	4 s.h.
*Inquiry Into Life Science	4 s.h.
*Biology	3 s.h.
Composition & Speech I and II	8 s.h.
Mathematics for Elementary Teachers I and II	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	4 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	4 s.h.
Biology I (may take Biological Principles + Lab)	4 s.h.
General Chemistry I	5 s.h.
Physical Science + Lab	4 s.h.
Introduction to Teaching	3 s.h.
Educational Measurement & Evaluation	2 s.h.
Educational 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	4 s.h.
Physical Science	4 s.h.
Physical Science, Principles of Physics, College Chemistry, College Physics	6 s.h.
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	4 s.h.
Introductory Biology & Lab.....	4 s.h.
Principles of Physics.....	4 s.h.
American History.....	6 s.h.
Children's Literature.....	3 s.h.
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.
OR Composition I and II.....	6 s.h.
Introduction to Teaching.....	3 s.h.
Developmental Psychology.....	3 s.h.
Including Exceptional Students.....	3 s.h.
Educational Media & Classroom Computing Techniques.....	3 s.h.
Educational Psychology.....	3 s.h.

Elementary Only:

Art in the Elementary School	3 s.h.
Math for Elementary Teachers I and II.....	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.
One of the following:	
Inquiry Into Life Science	4 s.h.
Introductory Biology and Lab	3 s.h.
Environmental Science	3 s.h.
Biology I	4 s.h.
Biology II	4 s.h.
AND	
One of the following:	
Principles of Physics	4 s.h.
College Chemistry I	5 s.h.
General Chemistry I or II	5 s.h.
Physical Science.....	3 s.h.
College Physics I	4 s.h.
Classical Physics I	5 s.h.

The University of Iowa

EDUCATION

Students planning to transfer into the College of Education at the University of Iowa need a minimum of a 2.70 cumulative GPA and at least 40 semester hours of credit. Admission is highly competitive and is based on an achievement profile which includes: GPA; PRAXIS I (minimum 522 composite, with no sub score lower than 170). In addition, students should have completed an approved 10-hour volunteer practicum.

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

ELEMENTARY AND SECONDARY EDUCATION

NIACC students should complete:

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

ADDITIONAL SECONDARY EDUCATION REQUIREMENTS

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

APPLICATION DEADLINES:

Fall Semester - March 15
Spring Semester - October 15

University of Northern Iowa

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

ELEMENTARY EDUCATION

Elementary Education (K-6) should consider:

Art in the Elementary School	3 s.h.
Composition & Speech I and II	8 s.h.
Children's Literature	3 s.h.
Mathematics for Elementary Teachers I and II	6 s.h.
Biology and Physical Science	8 s.h.
One course in Life Science and one in Physical Science (at least one must have a lab, if A.A. is not earned)	
Child and Adolescent Psychology (not required)	3 s.h.
Developmental Psychology	3 s.h.
OR Child Growth and Development	3 s.h.
Introduction to Teaching	3 s.h.
OR Field Experience and Seminar	1 s.h.
Educational Media/Classroom Computer Techniques	3 s.h.
Educational Psychology	3 s.h.
Educational 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 II	6 s.h.
Educational Media and Classroom Computing Techniques	3 s.h.
Children's Literature	3 s.h.
Composition & Speech I and II	8 s.h.
Introduction to Teaching	3 s.h.
OR Field Experience and Seminar	1 s.h.
Developmental Psychology	3 s.h.
OR Child Growth and Development	3 s.h.
Educational Psychology	3 s.h.
Educational Measurement & Evaluation	3 s.h.
Including the Exceptional Student	3 s.h.
Nutrition	3 s.h.

TECHNOLOGY EDUCATION AND TRAINING

Integrated Technology Education majors should consider:

Composition & Speech I and II	8 s.h.
College Physics I	4 s.h.
Introduction to Teaching	3 s.h.
OR Field Experience and Seminar	1 s.h.
Developmental Psychology	3 s.h.
OR Child Growth and Development	3 s.h.
Educational Psychology	3 s.h.
Including the Exceptional Student	2 s.h.
Educational Measurement & Evaluation	2 s.h.

SECONDARY EDUCATION

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

Educational Media and Classroom Computing Techniques	3 s.h.
Introduction to Teaching	3 s.h.
Developmental Psychology	3 s.h.
OR Child & Adolescent Psychology	3 s.h.
Educational Psychology	3 s.h.
Educational Measurement & Evaluation	2 s.h.
Including the Exceptional Student	2 s.h.

Available course work in major and/or minor.

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

Upper Iowa University

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

requirements:

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

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

EDUCATION

Developmental Psychology	3 s.h.
Educational Psychology	3 s.h.
Including the Exceptional Student	3 s.h.
Educational Media	3 s.h.

Elementary Education majors may also take:

Children's Literature	3 s.h.
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Prekindergarten-Grade 3 majors may also take:

Children's Literature	3 s.h.
Introduction to Early Childhood	3 s.h.
Early Childhood Guidance	3 s.h.

Waldorf College

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

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

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

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

* Only Elementary Education needs two sciences.

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

SCIENCE CONCENTRATION

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

MATHEMATICS CONCENTRATION

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

SPANISH CONCENTRATION

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

THEATRE CONCENTRATION

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

COACHING AUTHORIZATION/ENDORSEMENT

Care and Prevention of Athletic Injuries	2 s.h.
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	4 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 first year program is much the same for all professional curricula of the College of Engineering, and thus a student may transfer from one department to another within the college without undue loss of time. The group of courses is called the Basic Program. There are some differences; hence, the student who desires to complete work in minimum time will find it desirable to select a major department as soon as possible.

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

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

Calculus I and II	8 s.h.
Composition & Speech I and II	8 s.h.
General Chemistry I	5 s.h.
Engineering Problems with FORTRAN	3 s.h.
Classical Physics I	5 s.h.
Orientation to Engineering	0 s.h.
Library (included when completing Composition & Speech I and II)	

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

Engineering Graphics and Design	3 s.h.
Statics for Engineering	3 s.h.
Mechanics of Materials	3 s.h.
General Chemistry II	5 s.h.
Classical Physics II	5 s.h.
Calculus III	4 s.h.
Differential Equations with Laplace Transforms	3 s.h.
Organic Chemistry I and II	5-10 s.h.

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

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

The University of Iowa

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

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

Calculus I, II, and III.....	12 s.h.
Differential Equations with Laplace Transforms.....	3 s.h.
Composition & Speech I and II.....	8 s.h.
General Chemistry I.....	5 s.h.
Classical Physics I.....	5 s.h.
Engineering Problems with FORTRAN.....	3 s.h.
Engineering Graphics and Design.....	3 s.h.
Statics for Engineering.....	3 s.h.

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

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

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

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

Minnesota State University - Mankato

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

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

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

Recommended Humanities and Social Science Electives (consult catalog).

Also required for Electrical Engineering and Mechanical Engineering:

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

English

Waldorf College

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

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

Environmental Science/Environmental Policy

Drake University

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

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

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

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

Exercise Science

Iowa State University

This program prepares students for careers in fitness and wellness fields. Graduates are hired as exercise specialists in corporations, private health clubs, hospitals (cardiac rehabilitation) and other agencies which provide fitness/wellness activities. The program is administered through the Department of Health and Human

Performance. See course recommendations listed under Physical Education-Exercise Science.

Graphic Arts

Grand View College

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

Encounters in Humanities.....	2 s.h.
Art Appreciation.....	3 s.h.
Art in the Elementary School.....	3 s.h.
Art History I and II.....	6 s.h.
Drawing.....	3 s.h.
Ceramics.....	3 s.h.
Graphic Design.....	3 s.h.
Painting I and II.....	6 s.h.
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.
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Principles of Accounting I.....	3 s.h.
Principles of Marketing - Elective.....	3 s.h.

Iowa State University

FAMILY AND CONSUMER SCIENCES EDUCATION

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

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

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

Humanities

Waldorf College

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

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

Human Services

Buena Vista University

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

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

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

Grand View College

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

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

Upper Iowa University

RESIDENTIAL CAMPUS

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

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

Industrial Technology*University of Northern Iowa*

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

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

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

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

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

CONSTRUCTION MANAGEMENT

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

Transferable NIACC Courses:

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

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

ELECTRICAL AND INFORMATIONAL ENGINEERING TECHNOLOGY (EIET)

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

Transferable NIACC Courses:

MAT-128	Precalculus
MAT-156	Introduction to Statistics*
MAT-210	Calculus I*
MAT-216	Calculus II*
PHY-162	College Physics I (4 s.h.)
PHY-172	College Physics II (4 s.h.)
PHY-212	Classical Physics I*
PHY-222	Classical Physics II
ELT-115	Electronic Concepts
ELT-124	Advanced PLCs and Systems Integration
ELT-133	Electric Motor Drives
ELT-170	Introduction to PLC's
ELT-190	Introduction to Tech Computing & CAD
ELT-210	Motor Control Circuits
ELT-309	Digital Circuits
ELT-382	Electronic Circuit Analysis
ELT-550	Analog Devices
ELT-710	Computer Automated Manufacturing
ELT-734	Industrial Instrumentation

ELT-790	Fluid Power
NET-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 - TEACHING

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

Transferable NIACC Courses:

EDU-216	Introduction to Teaching
PSY-121	Developmental Psychology
PSY-281	Educational Psychology
EDU-242	Educational Measurement and Evaluation
EDU-246	Including Exceptional Students

TECHNOLOGY EDUCATION - TRAINING

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

MANUFACTURING TECHNOLOGY

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

Transferable NIACC Courses:

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

TECHNOLOGY MANAGEMENT

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

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

Information Systems Technology/MIS

Buena Vista University

MIS

Completion of IST program at NIACC with the following courses:	40-44 s.h.
Composition & Speech I and II	8 s.h.
Principles of Accounting I and II	6 s.h.
Principles of Management	3 s.h.
Business Law I	3 s.h.
Finite Math	3 s.h.
Principles of Marketing	3 s.h.
Business Statistics	3 s.h.
Management Information Systems (recommended)	3 s.h.
Principles of Macroeconomics	3 s.h.
Principles of Microeconomics	3 s.h.

Drake University

INFORMATION SYSTEMS

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

* Calculus I may be taken instead of Calculus.

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

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

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

Iowa State University

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

Simpson College

COMPUTER INFORMATION SYSTEMS

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

Business Statistics or Introduction to Statistics	3 s.h.
Calculus I	8 s.h.
Introduction to Business or	
Principles of Management	3 s.h.

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

University of Northern Iowa

IST Major Courses	40-44 s.h.
Composition & Speech I and II	8 s.h.
Western Civilization I or II	4 s.h.
Encounters in Humanities	2 s.h.
Introduction to Statistics	3 s.h.
Social Science Elective(s) (see advisor)	3 s.h.
Finite Math	3 s.h.
Principles of Macroeconomics	3 s.h.
Principles of Accounting I or II, Business Statistics, Principles of Microeconomics, or Intro to Computers and Information Systems	3 s.h.
Physical Education	2 s.h.

Upper Iowa University

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

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

Journalism

Drake University

JOURNALISM AND MASS COMMUNICATION

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

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

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

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

for Drake curriculum outcomes fulfillment upon transfer.

Iowa State University

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

Simpson College

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

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

See advisor for a separate list of general education requirements.

The University of Iowa

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

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

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

Law

Drake University

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

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

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

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

The University of Iowa

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

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

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

Liberal Arts/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 & Speech8 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 or Introduction to Statistics	3 s.h.
Principles of Accounting I and II	6 s.h.
Introduction to Business OR	
Principles of Management	3 s.h.
Business Law I and II	6 s.h.
Principles of Marketing	3 s.h.
Principles of Advertising.....	3 s.h.
Principles of Selling	3 s.h.

Medical Technology (Clinical Lab Science)

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

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

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

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

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

Mortuary Science

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

Recommended courses:

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

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

Music

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

Literature.....	6 s.h.
Foreign Language.....	0-8 s.h.
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.

The University of Iowa

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

This program is designed for associate degree registered nurses who desire a BSN degree. The University of Iowa College of

Nursing offers its RN-BSN Progression program in collaboration with NIACC. Prerequisite course work can be completed locally in preparation for the online BSN Nursing major.

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

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

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

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

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

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

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

Admission to the undergraduate Bachelor of Science in Nursing program is competitive. A minimum GPA of 2.7 and a "C" or higher in all prerequisite courses is required to apply. Application deadline is April 1 (only Fall admission starting in Fall 2008). For more information, visit the website at www.nursing.uiowa.edu.

Occupational Therapy

St. Ambrose University

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

they will need to transfer to St. Ambrose.

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

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

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

Optometry

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

Composition & Speech I and II	8 s.h.
Biology I and II	8 s.h.
Physics	8 s.h.
Inorganic Chemistry	10 s.h.
Psychology	3 s.h.
Humanities Elective(s)	6 s.h.
Social Science Elective(s)	3 s.h.

Organic Chemistry	4-10 s.h.
Microbiology	4 s.h.
Anatomy and Physiology I and II	8 s.h.
Calculus I	4 s.h.
Plus electives to total 60 s.h.	

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

Pharmacy

Drake University

COLLEGE OF PHARMACY AND HEALTH SCIENCES

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

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

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 January 4, 2008, and early application, preferably in the fall, is strongly recommended. Applicants must sit for the PCAT no later than January 2008 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.

The University of Iowa

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

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

Procedures:

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

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

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

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

6. Two letters of reference are required. They should be processed through the PharmCAS application service. Electronic submission is preferred.
7. Personal interviews will be required. Candidates will be contacted by the college if selected for an interview.

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

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

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

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

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

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

Physical Education

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

Composition & Speech I and II	8 s.h.
Sports Officiating: Fall and Winter Sports; Sports Officiating: Spring and Summer Sports	4 s.h.
Introduction to Physical Education	2 s.h.
Anatomy and Physiology I and II	8 s.h.
First Aid	1 s.h.
Introduction to Teaching	3 s.h.
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 Biology II	4 s.h.
Anatomy and Physiology	8 s.h.

Upper Iowa University

RESIDENTIAL CAMPUS

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

FITNESS MAJOR

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

SPORTS SCIENCE MAJOR

College Chemistry I	5 s.h.
College Chemistry II	5 s.h.
Nutrition	3 s.h.

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

ATHLETIC TRAINING

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

Physical Science*Grand View College*

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

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

Physical Therapy*The University of Iowa*

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

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

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

Physician*The University of Iowa*

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

Composition & Speech I and II	8 s.h.
General Chemistry I and II	10 s.h.

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

General education to complete Associate in Arts Degree.

Physician Assistant*The University of Iowa*

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

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

General education electives to complete Associate in Arts Degree.

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

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

Physics - Applied*University of Northern Iowa*

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

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

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

EGT-129	Statics for Engineering	3 s.h.
EGT-119	Mechanics of Materials	3 s.h.
MAT-210	Calculus I	4 s.h.

MAT-216	Calculus II	4 s.h.
MAT-219	Calculus III	4 s.h.
MAT-226	Differential Equations with Laplace Transforms.....	3 s.h.
CHM-166	General Chemistry I	5 s.h.
CHM-176	General Chemistry II	5 s.h.
PHY-212	Classical Physics I	5 s.h.
PHY-222	Classical Physics II	5 s.h.

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

Political Science

Simpson College

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

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

Psychology

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

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

Buena Vista University

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

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

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

A second major or minor is required for this degree.

Simpson College

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

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

Complete additional courses to satisfy A.A. Degree.

Upper Iowa University

RESIDENTIAL CAMPUS

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

Introduction to Psychology.....	3 s.h.
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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.
Newsriting & Reporting	3 s.h.

Waldorf College

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

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

Veterinary Medicine*Iowa State University*

(GPA is a competitive factor for admission.)

Applicants for admission to the College of Veterinary Medicine must have attended a regionally accredited college or university, have

completed 40 semester credits prior to the deadline for filing an application for admission, and have completed 60 semester credits prior to the end of the spring term in which the applicant seeks to be admitted.

Credits earned must include the following:

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

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

Visual Arts*Grand View College*

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

Art History I and II	6 s.h.
Drawing	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>	<i>3 s.h.</i>
<i>Composition II (ENG-106)</i>	<i>3 s.h.</i>
<i>Public Speaking (SPC-111)</i>	<i>2 s.h.</i>
Humanities	8 s.h.
<i>Art History I (ART-203)</i>	<i>3 s.h.</i>
<i>Art History II (ART-204)</i>	<i>3 s.h.</i>
<i>U.S. History to 1877 (HIS-151)</i>	<i>3 s.h.</i>
<i>U.S. History Since 1877 (HIS-152)</i>	<i>3 s.h.</i>
<i>Short Story/Novel (LIT-160)</i>	<i>3 s.h.</i>
<i>Poetry/Drama (LIT-170)</i>	<i>3 s.h.</i>
Natural Science/Mathematics	8 s.h.
<i>Introductory Biology (BIO-102)</i>	<i>3 s.h.</i>
<i>Nutrition (BIO-151)</i>	<i>3 s.h.</i>
<i>Health and Nutrition (BIO-152)</i>	<i>3 s.h.</i>
<i>Introduction to General Chemistry (CHM-122)</i>	<i>4 s.h.</i>
<i>Math for Liberal Arts (MAT-110)</i>	<i>3 s.h.</i>
<i>Introduction to Statistics (MAT-156)</i>	<i>3 s.h.</i>
<i>Calculus (MAT-165)</i>	<i>3 s.h.</i>
Social Science	8 s.h.
<i>Personal Finance (ECN-115)</i>	<i>3 s.h.</i>
<i>Principles of Macroeconomics (ECN-120)*</i>	<i>3 s.h.</i>
<i>Principles of Microeconomics (ECN-130)*</i>	<i>3 s.h.</i>
<i>American National Government (POL-111)</i>	<i>3 s.h.</i>
<i>International Relations (POL-121)</i>	<i>3 s.h.</i>
<i>Introduction to Psychology (PSY-111)*</i>	<i>3 s.h.</i>
<i>Developmental Psychology (PSY-121)*</i>	<i>3 s.h.</i>
<i>Marriage and Family (SOC-120)</i>	<i>3 s.h.</i>
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>	<i>3 s.h.</i>
<i>Principles of Accounting I (ACC-121)</i>	<i>3 s.h.</i>
<i>Principles of Accounting II (ACC-122)</i>	<i>3 s.h.</i>
<i>Introduction to Keyboarding (ADM-105)*</i>	<i>1 s.h.</i>
<i>Keyboarding Skill Development (ADM-108)*</i>	<i>1 s.h.</i>
<i>Computer Literacy (BCA-100)*</i>	<i>1 s.h.</i>
<i>Introduction to Computers and Information Systems (BCA-101)</i>	<i>3 s.h.</i>
<i>Basic Word Processing (BCA-129)*</i>	<i>2 s.h.</i>
<i>Electronic Spreadsheets (BCA-152)</i>	<i>3 s.h.</i>
<i>Microsoft Access (BCA-163)</i>	<i>1 s.h.</i>
<i>Personal Information Management (BCA-170)</i>	<i>2 s.h.</i>
<i>Basic Presentation Software (BCA-174)</i>	<i>1 s.h.</i>
<i>Introduction to Microsoft Publisher 2002 (BCA-182)</i>	<i>1 s.h.</i>

DEGREE REQUIREMENT	SEMESTER HOURS
<i>Computer Business Applications (BCA-215)</i>	3 s.h.
<i>Project Management Software (BCA-259)</i>	2 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>The Successful Entrepreneur (BUS-134)</i>	2 s.h.
<i>Creativity, Innovation and Opportunity Analysis (BUS-136)</i>	2 s.h.
<i>Introduction to E-Commerce (BUS-151)</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>Web Development I (CIS-210)</i>	3 s.h.
<i>Building Codes and Standards (CON-117)</i>	2 s.h.
<i>Introduction to Criminal Justice (CRJ-100)</i>	3 s.h.
<i>Criminal Law (CRJ-130)</i>	3 s.h.
<i>Evidence (CRJ-230)</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>Early Childhood Curriculum II (ECE-159)</i>	3 s.h.
<i>Child Growth and Development (ECE-170)</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>Visual Communication (GRA-108)</i>	3 s.h.
<i>Electronic Portfolio (GRA-299)</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>Principles of Supervision (MGT-130)</i>	3 s.h.
<i>Principles of Marketing (MKT-110)</i>	3 s.h.
<i>Principles of Selling (MKT-140)</i>	3 s.h.
<i>CISCO Advanced Routing (NET-254)</i>	4 s.h.
<i>CISCO WAN Remote Access (NET-264)</i>	4 s.h.
<i>CISCO Switching, Multilayer (NET-274)</i>	4 s.h.
<i>Information Data Assurance (NET-613)</i>	3 s.h.
<i>Fundamental Project Management (NET-743)</i>	4 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 40 s.h. distributed in the following fashion: communication (8 s.h.); humanities and/or social science (8 s.h.); natural science/mathematics (20 s.h.); and distributed requirement (4 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-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	Introduction to Journalism	3 s.h.
JOU-121	News Writing & Reporting	3 s.h.

LITERATURE

DRA-145	Oral Interpretation	3 s.h.
EDU-235	Children's Literature	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.
LIT-150	World Literature I	3 s.h.
LIT-151	World Literature II	3 s.h.
LIT-160	Short Story/Novel	3 s.h.
LIT-170	Poetry/Drama	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-212	American Musical Heritage	3 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.....	4 s.h.
BIO-151	Nutrition.....	3 s.h.
BIO-152	Health and Nutrition.....	3 s.h.
BIO-186	Microbiology.....	4 s.h.
BIO-196	Introduction to Bio-Technology.....	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.
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-135	Personal Income Tax.....	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.....	3 s.h.
BCA-215	Computer Business Applications.....	3 s.h.
BCA-259	Project Management Software.....	2 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	Introduction 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	Home/Office Computer Management.....	3 s.h.
NET-113	IT Essentials I.....	4 s.h.
NET-117	Home/Office Network Management.....	3 s.h.
NET-133	IT Essentials II.....	4 s.h.
NET-136	Operating Systems II.....	3 s.h.
NET-149	Business Network Management.....	3 s.h.
NET-157	Network Design I.....	3 s.h.
NET-158	Network Design II.....	3 s.h.
NET-160	Network Design and Documentation.....	3 s.h.
NET-201	Network LANs & WANs.....	5 s.h.
NET-213	CISCO Networking.....	4 s.h.
NET-223	CISCO Routers.....	4 s.h.
NET-233	CISCO Switches.....	4 s.h.
NET-243	CISCO Wide Area Network (WAN).....	4 s.h.
NET-246	Perimeter Defense.....	3 s.h.
NET-247	Internal Defense.....	3 s.h.
NET-254	Building Scalable Internetworks.....	4 s.h.
NET-264	Implementing Secure Converged WANs.....	4 s.h.
NET-274	Building Multilayer Switched Networks.....	4 s.h.
NET-284	Optimizing Converged Networks.....	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-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.

INTERSHIPS

BUS-107	Business Careers.....	1 s.h.
BUS-225	Business Internships.....	1-5 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-255	60-Hour Real Estate Pre-license.....	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.....	3 s.h.
ADM-185	Legal Terminology and Transcription.....	2 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-246	Coding I (ICD-9).....	3 s.h.
HIT-247	Coding II (CPT).....	3 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	Intermediate 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-216	Employment Strategies for Criminal Justice.....	1 s.h.
CRJ-230	Evidence.....	3 s.h.

ED-to-GO COURSES

(limited to 3 s.h. maximum of these 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-159	Early Childhood Curriculum II	3 s.h.
ECE-170	Child Growth and Development.....	3 s.h.
ECE-243	Early Childhood Guidance	3 s.h.
EDU-216	Introduction to Teaching.....	3 s.h.
EDU-219	Field Experience and Seminar.....	1 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.
EDU-290	Education Capstone Seminar	1 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.
PEV-180	Varsity Wrestling	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-111	Personal Wellness	3 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.
PEH-221	Introduction to Leisure Services.....	3 s.h.

STUDENT SENATE/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-139	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: Substance Abuse	1 s.h.
SOC-881	Social Responsibility and Community Service.....	2 s.h.

NOTE: ALL SPECIAL TOPICS COURSES, UNLESS OTHERWISE INDICATED, ARE ELECTIVE COURSES.

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-014	Mastery Writing	1-4 s.h.
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-044	Mastery Math	1-6 s.h.
MAT-053	Pre-Algebra.....	4 s.h.
MAT-063	Elementary Algebra.....	4 s.h.
MAT-089	Survey of Mathematics	3 s.h.
RDG-015	Power Reading.....	2 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)
Equivalent to 15-101, BUSN-101.	

← 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
AGE	Agriculture - Equine	HSV	Human Services
AGM	Agriculture - Mechanics	HUM	Humanities
AGP	Agriculture - Precision Agriculture	IND	Industrial Technology
AGS	Agriculture - Animal Science	JOU	Journalism
ANT	Anthropology	LIT	Literature
ART	Art	MAP	Medical Assistant
AUT	Automotive Technology	MAS	Masonry
BCA	Business Computer Application	MAT	Mathematics
BIO	Biology	MFG	Manufacturing
BMA	Building Maintenance	MGT	Management
BUS	Business	MKT	Marketing
CAD	Computer-Aided Drafting	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
DSL	Diesel	PEV	Intercollegiate Physical Education
ECE	Early Childhood Education	PHI	Philosophy
ECN	Economics	PHS	Physical Science
EDU	Education	PHY	Physics
EGT	Engineering Technology	PNN	Practical Nursing
ELT	Electronics	POL	Political Science
EMS	Emergency Medical Services	PSY	Psychology
ENG	English Composition	PTA	Physical Therapist Assistant
ENV	Environmental Science	RDG	Reading
FIN	Finance	SDV	Student Development
FIR	Fire Science	SOC	Sociology
FLS	Foreign Language - Spanish	SPC	Speech
GEO	Geography	WEL	Welding
GRA	Graphic Communications		

**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.* NOTE: All Special Topics courses, unless otherwise indicated, are elective credit.

Course Descriptions--

ACC-111 Introduction to Accounting (3 s.h.)
Prerequisite: None. This course provides the student with a basic understanding of the accounting cycle and basic accounting rules along with 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-135 Personal Income Tax (3 s.h.)
Prerequisite: None. Personal Income Tax is a course that introduces the student to the fundamentals of federal income tax regulations. Students engage in an in-depth study of the preparation of the individual income tax return. Emphasis is placed on the preparation of federal returns for individuals. The course is designed to help the student develop a broad understanding of the tax laws as they relate to the individual. Course content includes the examination of regulations pertaining to general tax return preparation and filing federal income tax returns for the individual. Students will prepare a variety of tax forms and schedules, including the calculation of deductions and credits. Annual tax law changes are also examined. (45-0)

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 keyboarding techniques using 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 (3 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. (45-0) *Equivalent to 15-218, OFFC-830.*

ADM-185 Legal Terminology and Transcription (2 s.h.)
Prerequisite: BCA-129, Basic Word Processing; and BUS-121, Business Communications. This course is designed to help students

learn the activities performed by a legal office professional in a law firm or other legal setting where documents are converted from the spoken word to printed form. This course prepares students to transcribe the most common legal documents as well as emphasizes legal terminology. Upon completion of this course, students will have a greater knowledge of the terminology, guidelines, and formatting skills needed to prepare authentic, accurate legal documents. (30-0)

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, pediatric, 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 with a cumulative 2.5 GPA in previous nursing courses; 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-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 firsthand 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.*

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 Agriculture (2 s.h.)
Prerequisite: AGA-114, Principles of Agronomy, AGA-852, Principles of Crop Production, and demonstrated computer proficiency or permission from instructor. 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 segments 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-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-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.)

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-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) *Equivalent to ARTS-186.*

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.)

Prerequisite: None. This course is *not* required as a prerequisite for ART-204, Art History II. 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 Transmissions/Transaxles (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. 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 e-mail and 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 Introduction 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 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 will be prepared to take the Expert level Microsoft Office Specialist (MOUS) certification 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 User Specialist (MOUS) 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 Introduction 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 (3 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. (45-0) *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-259 Project Management Software (2 s.h.)
Project Management Software provides students with detailed instruction on how to generate, build, revise, update, and report project time, cost, and resource schedule information using Microsoft Office Project (current version 2003). The hands-on

approach of this course walks students through MS Project features and functions in a lab tutorial format. In addition to the step-by-step approach to MS Project, students learn how to calculate a Critical Path Method (CPM) schedule enabling knowledgeable application of any project management software application. Although some prior knowledge of the project management context is helpful, it is not required to gain ability to create a valuable schedule and learn the technical aspects of MS Project. (15-30)

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. This course has been designated as a pass/no pass course. (8-14)

BCA-602 Microsoft Excel (1 s.h.)
Microsoft Excel demonstrates building a spreadsheet using mathematical formulas, functions, wizards, graphs, charts, and databases. This course has been designated as a pass/no pass course. (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. This course has been designated as a pass/no pass course. (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, 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 (4 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. (45-30) 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.)
This course covers the science of health and its application to the individual, family, and community. Topics presented include stress management, human sexuality, elementary physiology, nutrition, dependency behaviors, and other current national health concerns. (45-0) *Equivalent to 70-110, BIOL-105.*

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-196 Introduction to Bio-Technology (4 s.h.)
The purpose of this course is to help students understand the importance and impact of bio-technology on our lives. Students will be introduced to bio-science's impact on society and made to realize that technologies, like the tools they are manifested in, can be used "for better or for worse." The benefits of bio-science will be discussed in six major categories: agriculture, industry, medicine, environmental, forensic, and advancement of knowledge. (45-30)

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 lecture and laboratory-based 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 lecture and laboratory-based 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: Introductory Biology highly recommended, but not required. A lecture and laboratory-based 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. This is a pass/no pass course. (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. This is a pass/no pass course. (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-143 FastTrac® NewVenture™ (2 s.h.)

Recommended: Students must have a specific business concept they would like to pursue or have taken BUS-102, Introduction to Business, BUS-134, The Successful Entrepreneur, BUS-136, Creativity, Innovation and Opportunity Analysis. FastTrac® NewVenture™ assists the start-up entrepreneur in developing a business concept and evaluating it through each step of the business planning process. This is a course designed to teach students

how to research, develop, and write detailed start-up Business Plans, which can be used to create successful businesses. This course has been designated as a pass/no pass course. (35-0)

BUS-144 FastTrac® GrowthVenture™ (2 s.h.)

Prerequisite: Students must have a business they have been operating for two years or longer. FastTrac® GrowthVenture™ assists entrepreneurs in evaluating their current business framework and determining the changes needed to improve performance and grow their business. This course has been designated as a pass/no pass course. (35-0)

BUS-151 Introduction to E-Commerce (3 s.h.)

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-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. (15-60) *Equivalent to 15-173, ENTR-103.*

CAD-216 Architectural CADD (2 s.h.)

Prerequisite: CON-110, Construction Drawing; CON-112, Blueprint Reading/Estimating; or equivalent. Students will be instructed in residential architecture drafting techniques required to design and draft floor plans, exterior and interior details, and structural representations. The course will use architectural CAD software to develop a full set of residential house plans. Upon completion, students should be able to prepare and plot architectural drawings to scale within accepted architectural standards. (16-26)

CFR-100 Computer Forensics I (3 s.h.)
Prerequisite: NET-113, IT Essentials I, 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 Helix 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, Organic Chemistry I, including spectroscopic methods for molecular structure determination. Laboratory work involving the procedures introduced in CHM-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, Introduction 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 Introduction to Programming Logic with Language (3 s.h.)
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. Introduction 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.)
Introduction 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. *Equivalent to ISTS-140.* (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, pages for cell phones, 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, Introduction 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 triagers. (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-121 Carpentry Fundamentals I (4 s.h.)

General skills instruction covers safety; basic hand tools; basic power tools; jobsite safety; printreading; construction materials and systems; construction fasteners and processes; residential

construction practices; and commercial construction practices. (24-75)

CON-123 Carpentry Fundamentals II (4 s.h.)
Prerequisite: CON-121, Carpentry Fundamentals I. General skills instruction covers safety; basic hand tools; basic power tools; jobsite safety; printreading; construction materials and systems; constructional fasteners and processes; residential construction practices; and commercial construction practices. (24-75)

CON-255 Carpentry I (4 s.h.)
Prerequisites: CON-121, Carpentry Fundamentals I, and CON-122, Carpentry Fundamentals II. General skills instruction covers safety; hand tool; power tools; printreading; builders level, transit, and laser; scaffolding; rigging; arc welding; cutting and burning. Residential skills instruction covers site work; building layout; formwork; floor and still 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. (24-75)

CON-256 Carpentry II (4 s.h.)
Prerequisite: CON-255, Carpentry I. General skills instruction covers safety; hand tool; power tools; printreading; 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 canopying construction; cabinet fabrication; wood and steel jamb; window, door, millwork, and hardware installations; and office partition, and acoustical ceiling installations. (24-75)

CON-305 Cabinetry and Millwork (3 s.h.)
Prerequisite: CON-121 or equivalent. This competency-based course prepares students for entry-level positions in the cabinet-making and millwork, furniture-making and woodworking industries. (15-60)

CON-315 Guitar Building (2 s.h.)
No prerequisite, but CON-107, Construction Safety, or CON-305, Cabinetry and Millwork, is beneficial. Students in Guitar Building will design and build an electric guitar or bass and learn a lot about types and species of woods, as well as the intricate details that go into guitar building. This course will cover a number of different concepts as they relate to design, engineering, materials processes, fastening techniques, precision measuring and machining, electronics, physics, math and communications. As time allows, students will also learn basic chording and rhythm techniques with their custom built instrument. Students will be responsible for the cost of their instrument. (8-40)

CON-949A-C Special Topics in Carpentry (1-3 s.h.)
This course provides options for students that have earned a Building Trades diploma and are seeking a degree. It provides an opportunity to focus on specific skill sets for a current or potential employer. (0-30, 0-60, 0-90)

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, 80-297.*

CRJ-105 Intermediate Criminal Investigation (3 s.h.)
Prerequisite: CRJ-141, Criminal Investigation. 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-216 Employment Strategies for Criminal Justice (1 s.h.)
Prerequisite: Student must be registered in the Criminal Justice Program. This course prepares students for the steps involved in securing a position in criminal justice fields. It is an introduction to the job search process, including the resume, cover letter, and job interview. It also covers information unique to the criminal justice selection process. (15-0)

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.*

DSL-805 Class A CDL Mini-Course (1 s.h.)
Prerequisite: Valid Iowa driver's license. This course provides the safety and skills training needed to meet the minimum requirements established by the Federal Department of Transportation to obtain a Class A Commercial Driver's License. This classification of driver's license will give the learner the foundational skills required to apply for entry-level employment in a variety of fields requiring the Class A CDL. This course is designated as a pass/no pass course. (12-8)

ECE-103 Introduction to Early Childhood Education (3 s.h.)
Gives students a historical and philosophical foundation of the field

of early childhood education. Includes an overview of assessment and trends that influence best practices. Explores careers in the field. Addresses influences of families and diversity. (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. (45-0) *Equivalent to EDUC-128.*

ECE-133 Child Health, Safety, and Nutrition (3 s.h.)
Focuses on current concepts in the fields of health, safety, and nutrition and their relationship to the growth and development of the young child ages birth to eight. Blends current theory with practical applications and assessments. Includes the influences of families and diversity on health, safety, and nutrition in early childhood settings. (45-0) *Equivalent to 20-126, EDUC-126.*

ECE-159 Early Childhood Curriculum II (3 s.h.)
Focuses on the development, implementation and assessment of appropriate environments and curricula for young children ages three through eight. Students prepare to utilize developmentally appropriate practices in a context of family and culturally sensitive care. Emphasis is on understanding children's developmental stages and developing appropriate learning opportunities, interactions and environments in the following areas: emergent literacy, math, science, technology, and social studies. (45-0)

ECE-170 Child Growth and Development (3 s.h.)
Reviews typical and atypical development of children from conception to adolescence in all developmental domains. Presents interactions between child, family and society within a variety of community and cultural contexts. Examines theories associated with our understanding of children. (45-0)

ECE-243 Early Childhood Guidance (3 s.h.)
This course focuses on effective approaches and positive guidance strategies for supporting the development of all children. Emphasizes supportive interactions and developmentally appropriate environments. Uses assessment to analyze and guide behaviors. Studies impact of families and diversity on child guidance. (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-219 Field Experience (1 s.h.)
Prerequisite/Corequisite: EDU-216, Introduction to Teaching. Field experience provides purposeful classroom observations for pre-service teachers. Students will reflect on the ways schools function, identify the roles and responsibilities of teachers, and observe student behavior. Evaluation is pass/no pass. (5-30)

EDU-235 Children's Literature (3 s.h.)
Prerequisite: ENG-102, Composition & Speech I, or ENG-105, Composition I, and ENG-103, Composition & 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.*

EDU-290 Education Capstone Seminar (1 s.h.)
 Prerequisite/Corequisite: Enrolled in the Elementary Education Learning Community which consists of the following courses: MAT-113, Math for Elementary Teachers II; BIO-123, Inquiry Into Life Science; EDU-246, Including Exceptional Students; EDU-242, Educational Measurement and Evaluation; or permission from any of the four instructors. This course provides an opportunity for Education majors to discuss: i) current education topics; ii) characteristics of effective educators focusing on dispositions; and, iii) professional development organizations and opportunities. Students will work on assembling an education portfolio, and will learn about further opportunities in education. This is a pass/no pass credit course. (15-0)

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. 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, with grade of C or higher. 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; or higher. 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/Corequisite: Credit (with grade of C or higher) or enrollment in MAT-121, College Algebra; or MAT-128, Precalculus; or MAT-134, Trigonometry and Analytic Geometry; or higher; or consent of instructor. The integration of fundamental engineering graphics, computer-aided design (CAD), and engineering design. 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 RSNetwork. 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-Bradley 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 Introduction 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 tech-

niques 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-014A-D Mastery Writing (1-4 s.h.)
 Prerequisite: Recommendation of current/previous instructor, college recommendation, or student request. The Mastery Writing course provides developmental writing instruction to students referred by orientation assessment or by instructor who require a competency-based approach to improving their writing skills. Emphasis is on writing as a process; students will learn strategies for recognizing and compensating for individual writing problems. Completion of the course includes achieving mastery in three areas: language (grammar and mechanics), conceptual aspects (planning, style, content), and structure (organization, development, and support). Students' ability to succeed in a self-management style course will be assessed prior to approving registration in the course. Learning objectives include achievement on standardized tests and demonstrated mastery through writing samples for subsequent enrollment in writing courses. Credit may be repeated up to 8 hours. This course has been designated as a pass/no pass course. (5-20, 10-40, 15-60, 20-80)

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. 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 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. 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 30-049, ENRI-046.*

ENG-102 Composition & 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 & 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 & Speech I. Students must have earned a C or higher grade in Composition I or Composition & 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 & 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. Lecture and laboratory-based 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 physical geography that acquaints the student with the spatial relationships that exist between man and his physical environment. (45-0) *Equivalent to GEOG-101, 80-150.*

GRA-108 Visual Communication (3 s.h.)
Prerequisite: CIS-210, Web Development I, 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.)
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-135, Food Production. 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. (15-60) *Equivalent to FOOD-802, 90:257.*

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-510 Sheet Metal Fabrication (2 s.h.)
Corequisite: HCR-705, Technical Graphics, and HCR-150, Commercial Heating Systems. Use of selected sheet metal tools, layout, cutting, forming, and assembly of sheet metal as well as soldering and brazing processes. (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. Students will use simple sketching aids and appropriate 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-806 Controls I (3 s.h.)
Major emphasis is on four basic types of control systems: pneumatic, electronic, electro mechanical, and digital as applied to residential and commercial heating and air-conditioning practices. (30-60)

HCR-807 Controls II (3 s.h.)
Prerequisite: ELT-115, Electronic Concepts. This course presents a more advanced study of electrical controls and their applications and an introduction to electronics and the controls used in HVAC systems. (30-60)

HCR-923 Systems Design (3 s.h.)
This course utilizes the knowledge base students have gained throughout the program to create a heating and cooling systems at either the residential or commercial level. (15-60)

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 & 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 I (ICD-9) (3 s.h.)
Corequisite: HSC-120, Medical Terminology I, and HSC-150, Body Structure and Function. Prerequisite: None. However, HIT-210, Basic Medical Insurance & 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-247 Coding II (CPT) (3 s.h.)
Prerequisite: HSC-120, Medical Terminology I; HSC-150, Body Structure and Function; HIT-246, Coding I, or experience in Medical Coding. This course is a continuation of the study of ICD-9-CM (Coding I) emphasizing its use for prospective payment. Course work focuses on acquiring advanced skills in coding disease and procedures and abstracting medical data. The study of CPT/HCPCS will be emphasized including advanced concepts of coding and payment methodologies. (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.*

HSC-179 Medication Aide (3 s.h.)
Prerequisites: If employed in certified nursing facility - minimum of 6 months employment by facility sponsor, must be on State Direct Care Workers Registry, provide documentation from administrator of facility in which he/she is employed. If employed in residential or related type of licensed facility - minimum of 6 months employment by facility sponsor, evidence of successful completion of residential attendant course, provide documentation from administrator of facility in which he/she is employed. If employed in assisted living program: provide documentation from administrator of facility in which he/she is employed, strongly recommended to have completed 75-hour Nurse Aide Course or Residential Attendant Course. Aptitude for reading, writing, and mathematics. This is a 60-hour course consisting of 42 hours of classroom lecture and 18 hours of clinical experience. This course prepares people to safely administer

nonparenteral medications in nursing facilities and related areas. The emphasis is on safe administration of medications. It qualifies the aide to administer medications in long term care, residential care, nursing facilities, skilled nursing facilities, adult day care and assisted living facilities. (42-18)

HSC-185 Activity Coordinator (4 s.h.)
A 60-hour course designed to prepare the participant to function as an entry level activity coordinator in a long-term care facility. This course is designated as pass/no pass. (60-0)

HSC-290 Supervising in Healthcare (3 s.h.)
Prerequisite: Must be current RN or LPN. This program is designed to enable the nurse to gain knowledge and develop skills necessary to manage personnel and clients in health care facilities. The program focuses on supervisory skills for nurses in long-term care. This course is designated as pass/no pass. (45-0)

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 & 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 & 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 & 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 & 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 & 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 & 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 & 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 students to understand and apply mathematics in their daily lives, at work, and in their leisure hours. 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. (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 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. 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. (30-0) Instructor's consent required. *Equivalent to 40-039, ENRI-048.*

MAT-044 Mastery Math (1, 2, 3, or 4 s.h.)
 Prerequisite: Permission of course instructor or college recommendation. This course is intended for students who would benefit from a competency-based approach to increasing their math skills. Student's self-management will be assessed for suitability to the course format prior to approval for course registration. Learning objectives will include succeeding on a standardized test to meet placement requirements for a subsequent math enrollment. This course has been designated as a pass/no pass course. Credit earned will not satisfy the requirements for an associates degree and will not be used in calculating the cumulative grade point average for graduation. Credit may be repeated. (5-20, 10-40, 15-60, or 20-80)

MAT-053 Pre-Algebra (4 s.h.)
 Prerequisite: A score of 15 or higher on the Prealgebra Pretest; COMPASS Prealgebra score of at least 25; or ACT score of at least 12. This is a basic mathematics 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.*

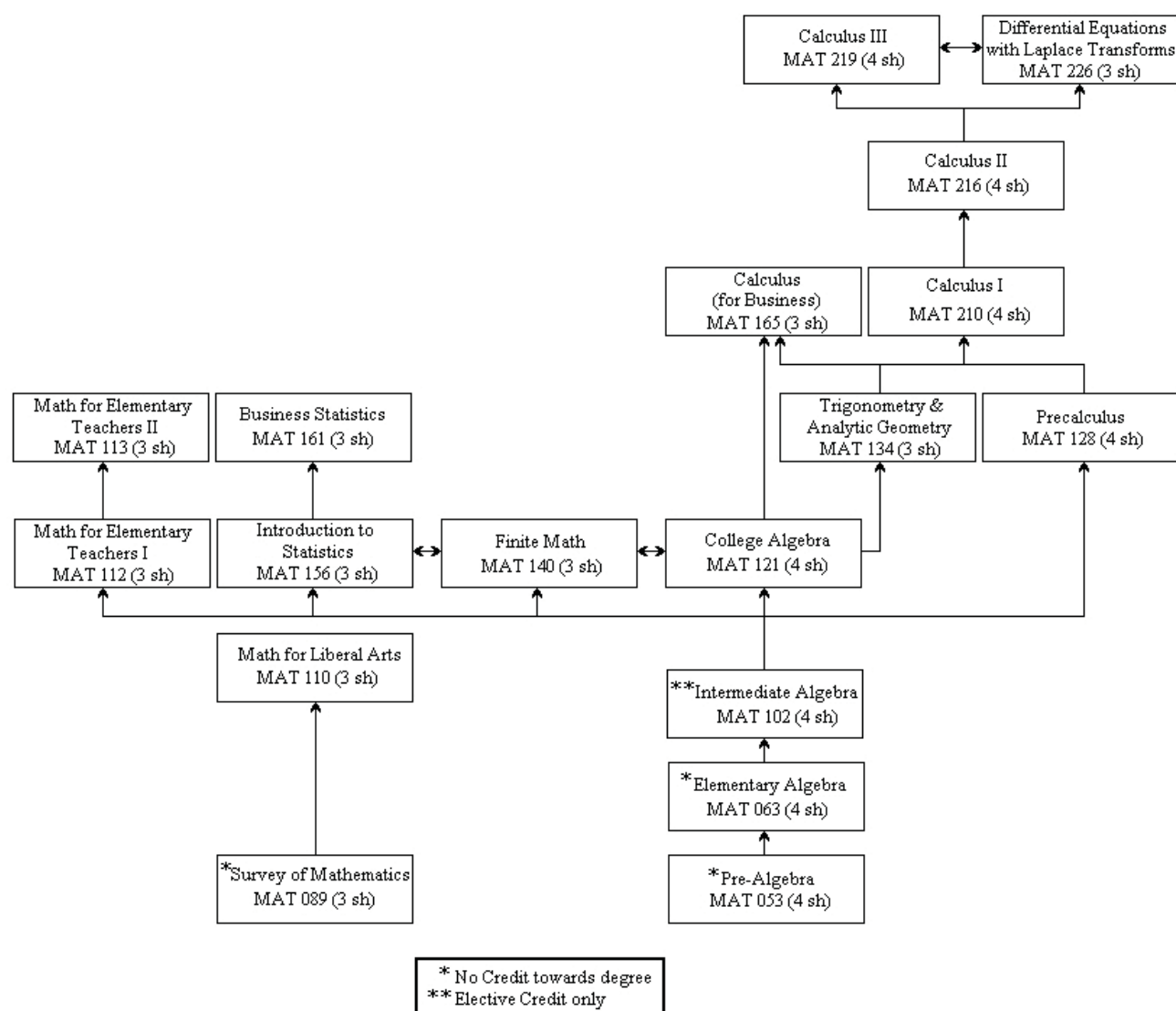
MAT-063 Elementary Algebra (4 s.h.)
 Prerequisite: MAT-053, Pre-Algebra, with a grade of C or higher; OR COMPASS Pre-Algebra score of at least 49; OR ACT Math score of at least 16. This course is intended for students who have had no previous experience in algebra. Topics include: the real number system, 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-089 Survey of Mathematics (3 s.h.)
 Prerequisite: COMPASS Prealgebra score of at least 25 or ACT score of at least 12. This course is for students who are intending on taking Math for Liberal Arts. The course focuses on arithmetic skills, without a calculator, college study skills, and an overview of topics from Math for Liberal Arts that include: problem solving, sets, elementary logic, number theory, percentages, statistics, and geometry. 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. (45-0)

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 equivalent course work. Topics include properties of real numbers, linear and quadratic equations, graphs of polynomial functions, 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: MAT-089, Survey of Math, with a grade of C or higher; COMPASS Algebra score of at least 56 OR ACT Math score of at least 21. Grade of C or better in MAT-089, Survey of Mathematics. 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 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 20 or COMPASS Algebra score of at least 51. 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.*



North Iowa Area Community College
 Mathematics Division
 Course Flow Chart

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, or permission of instructor. 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 Algebra 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 mathematical topics primarily in a business setting. Some topics covered include elementary functions, linear systems, matrices, linear programming, set theory, probability, and expected value. (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, probability, 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, Introduction 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; 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 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, with grades of C or higher; 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. (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. (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-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 Works. 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, development, 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.*

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, MKRT-101.*

MKT-140 Principles of Selling (3 s.h.)
This course involves the study of concepts and practices used by successful 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, MKRT-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, MKRT-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 literature. Students may register for 1 credit hour (30-minute lesson per week) or 2 credit hours (two 30-minute lessons per week) which is repeatable to a maximum of 8 credit hours. Must have instructor consent for 2 credit hours (music majors for 2 credit hours only). (7.5 to 15-15 to 30) *Equivalent to 50-156, MUSI-156A-B.*

MUA-286A-B Applied Flute (1-2 s.h.)
Individualized instruction in Flute 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 (one 30-minute lesson per week) or 2 credit hours (one 60-minute lesson per week) each semester. The 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 50-158, MUSI-158A-B.*

MUA-287A-B Applied Oboe (1-2 s.h.)
Individualized instruction in Oboe 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 (one 30-minute lesson per week) or 2 credit hours (one 60-minute lesson per week) each semester. The 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 50-159, MUSI-159A-B.*

MUA-288A-B Applied Clarinet (1-2 s.h.)
Individualized instruction in Clarinet 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 (one 30-minute lesson per week) or 2 credit hours (one 60-minute lesson per week) each semester. This 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 50-160, MUSI-160A-B.*

MUA-289A-B Applied Bassoon (1-2 s.h.)
Individualized instruction in Bassoon 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 (one 30-minute lesson per week) or 2 credit hours (one 60-minute lesson per week) each semester. The 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 50-161, MUSI-161A-B.*

MUA-290A-B Applied Saxophone (1-2 s.h.)
Individualized instruction in Saxophone 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 (one 30-minute lesson per week) or 2 credit hours (one 60-minute lesson per week) each semester. The 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 50-162, MUSI-162A-B.*

MUA-291A-B Applied Trumpet (1-2 s.h.)
Individualized instruction in Trumpet 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 (one 30-minute lesson per week) or 2 credit hours (one 60-minute lesson per week) each semester. The 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 50-163, MUSI-163A-B.*

MUA-292A-B Applied French Horn (1-2 s.h.)
Individualized instruction in French Horn 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 (one 30-minute lesson per week) or 2 credit hours (one 60-minute lesson per week) each semester. The 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 50-164, MUSI-164A-B.*

MUA-293A-B Applied Trombone (1-2 s.h.)
Individualized instruction in Trombone 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 (one 30-minute lesson per week) or 2 credit hours (one 60-minute lesson per week) each semester. The 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 50-165, MUSI-165A-B.*

MUA-294A-B Applied Euphonium (1-2 s.h.)
Individualized instruction in Euphonium 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 (one 30-minute lesson per week) or 2 credit hours (one 60-minute lesson per week) each semester. The 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 50-166, MUSI-166A-B.*

MUA-295A-B Applied Tuba (1-2 s.h.)
Individualized instruction in Tuba 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 (one 30-minute lesson per week) or 2 credit hours (one 60-minute lesson per week) each semester. The 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 50-167, MUSI-167A-B.*

MUA-296A-B Applied Percussion (1-2 s.h.)
Individualized instruction in Percussion 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 (one 30-minute lesson per week) or 2 credit hours (one 60-minute lesson per week) each semester. The course is repeatable for credit to a maximum of 8 credit hours. Must have instructor consent for 2 credit hours. Does not include drum set. (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 Drum Set 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 (one 30-minute lesson per week) or 2 credit hours (one 60-minute lesson per week) each semester. The 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 Guitar 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 (one 30-minute lesson per week) or 2 credit hours (one 60-minute lesson per week) each semester. The 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 20th century. 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 I 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 NIACC Jazz Ensemble rehearses two 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-212 American Musical Heritage (3 s.h.)
Prerequisite: MUS-100, Music Appreciation. This course is a scholarly examination of the history and roots of many vernacular genres inherent to contemporary American music. Students will obtain increased awareness of popular music's heritage: to appreciate its diversity; to perceive the underlying kinship of its many styles, to discover the cultural influences of North America, South America, Central America, Mexico, and Africa; and to sense its evolutionary momentum. (45-0)

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 meet five days a week for one hour. 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 meet five days a week for one hour. 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 Home/Office Computer Management (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 I (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-117 Home/Office Network Management (3 s.h.)
The goal of this course is to introduce students to fundamental networking concepts and technologies. This course provides a hands-on introduction to networking and the Internet using tools and hardware commonly found in the home and small business environment. Students will develop the skills necessary to plan and implement small networks across a range of applications (45-0)

NET-133 IT Essentials II (4 s.h.)
Prerequisite: NET-113, IT Essentials I, or permission of instructor. This course expands on concepts and skills learned in NET-113, IT Essentials I, 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-136 Operating Systems II (3 s.h.)
Prerequisite: NET-113, IT Essentials I, or permission of the instructor. This course 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-149 Business Network Management (3 s.h.)
Prerequisite: NET-117, Home/Office Network Management. The goal of this course is to assist students in developing the skills necessary to provide customer support to users of small- to medium-sized networks and across a range of applications. The course provides an introduction to routing and remote access, addressing and network services. It will also familiarize students with servers providing e-mail services, web space, and Authenticated Access. This course prepares students with the skills required for entry-level Help Desk Technician and entry-level Network Technician jobs. (45-0)

NET-157 Network Design I (3 s.h.)
Prerequisite: NET-233, CISCO Switches, or 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. (45-0) *Equivalent to 15-288, SRNE-202.*

NET-158 Network Design II (4 s.h.)
Prerequisite: NET-157, Network Design I; NET-254*, Building Scalable Internetworks; NET-264, Implementing Secure Converged WANs; and NET-274*, Building Multilayer Switched Networks, 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 (5 s.h.)
Prerequisite: NET-223, CISCO Routers or permission of instructor. This course provides a comprehensive, theoretical, and practical approach to learning the technologies and protocols needed to design and implement a converged switched network. Students learn about the hierarchical network design model and how to select devices for each layer. The course explains how to configure a switch for basic functionality and how to implement Virtual LANs, VTP, and Inter-VLAN routing in a converged network. The different implementations of Spanning Tree Protocol in a converged network are presented, and students develop the knowledge and skills necessary to implement a WLAN in a small-to-medium network. This course in the second part discusses the WAN technologies and network services required by converged applications in enterprise networks. The course uses the Cisco Network Architecture to introduce integrated network services and explains how to select the appropriate devices and technologies to meet network requirements. Students learn how to implement and configure common data link protocols and how to apply WAN security concepts, principles of traffic, access control, and addressing services. Finally, students learn how to detect, troubleshoot, and correct common enterprise network implementation issues. (75-0)

NET-213 CISCO Networking (4 s.h.)

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. It uses the OSI and TCP layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. Labs use a "model Internet" to allow students to analyze real data without affecting production networks. Packet Tracer (PT) activities help students analyze protocol and network operation and build small networks in a simulated environment. At the end of the course, students build simple LAN topologies by applying basic principles of cabling, performing basic configurations of network devices such as routers and switches, and implementing IP addressing schemes. (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; OR NET-117, Home/Office Network Management AND NET-149, Business Network Management. This course describes the architecture, components, and operation of routers, and explains the principles of routing and routing protocols. Students analyze, configure, verify, and troubleshoot the primary routing protocols RIPv1, RIPv2, EIGRP, and OSPF. By the end of this course, students will be able to recognize and correct common routing issues and problems. Students complete a basic procedural lab, followed by basic configuration, implementation, and troubleshooting labs in each chapter. Packet Tracer activities reinforce new concepts, and allow students to model and analyze routing processes that may be difficult to visualize or understand. (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. This course provides a comprehensive, theoretical, and practical approach to learning the technologies and protocols needed to design and implement a converged switched network. Students learn about the hierarchical network design model and how to select devices for each layer. The course explains how to configure a switch for basic functionality and how to implement Virtual LANs, VTP, and Inter-VLAN routing in a converged network. The different implementations of Spanning Tree Protocol in a converged network are presented, and students develop the knowledge and skills necessary to implement a WLAN in a small-to-medium network. (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. This course discusses the WAN technologies and network services required by converged applications in enterprise networks. The course uses the Cisco Network Architecture to introduce integrated network services and explains how to select the appropriate devices and technologies to meet network requirements. Students learn how to implement and configure common data link protocols and how to apply WAN security concepts, principles of traffic, access control, and addressing services. Finally, students learn how to detect, troubleshoot, and correct common enterprise network implementation issues. (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. (45-0)

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. (45-0)

NET-254 Building Scalable Internetworks (4 s.h.)

Prerequisite: NET-243, CISCO Wide Area Network (WAN), or NET-201, Network LANS and WANS, CCNA certification, or permission of the instructor. CCNP: Building Scalable Internetworks is the first of four courses leading to the CISCO Certified Network Professional (CCNP) designation. CCNP: Building Scalable Internetworks introduces CISCO Networking Academy Program students to scalable IP networks. Students will learn how to create an efficient and expandable enterprise network by installing, configuring, monitoring, and troubleshooting network infrastructure equipment (especially routers such as CISCO ISRs) according to the Campus Infrastructure module in the Enterprise Composite Network model. Topics include how to configure EIGRP, OSPF, IS-IS, and BGP routing protocols and how to manipulate and optimize routing updates between these routing protocols. Other topics include multicast routing, IPv6, and DHCP configuration. (60-0) *Equivalent to 15-277, SRNE-200.*

NET-264 Implementing Secure Converged WANS (4 s.h.)

Prerequisite: NET-243, CISCO Wide Area Network (WAN), or NET-201, Network LANS & WANS, or CCNA certification, or permission of the instructor. CCNP: Implementing Secure Converged Wide Area Networks is one of four courses leading to the CISCO Certified Network Professional (CCNP) designation. CCNP: Implementing Secure Converged Wide Area Networks introduces CISCO Networking Academy Program students to providing secure enterprise-class network service for teleworkers and branch sites. Students will learn how to secure and expand the reach of an enterprise network with focus on VPN configuration and securing network access. Topics include teleworker configuration and access, frame-mode MPLS, site-to-site IPSEC VPN, CISCO EZVPN, strategies used to mitigate network attacks, CISCO device hardening and IOS firewall features. (60-0) *Equivalent to 15-278, SRNE-201.*

NET-274 Building Multilayer Switched Networks (4 s.h.)

Prerequisite: NET-243, CISCO Wide Area Network (WAN), or NET-201, Network LANS and WANS, CCNA certification, or permission of instructor. Building Multilayer Switched Networks is one of four courses leading to the CISCO Certified Network Professional (CCNP) designation. Multilayer Switching teaches students about the deployment of state-of-the-art campus LANs. The course focuses on the selection and implementation of 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 in the following areas: 1) Introduction to Campus Networks; 2) Virtual Local Area Networks (VLANs); 3) Spanning Tree Protocol; 4) Inter-VLAN Routing; 5) High Availability in a Campus Environment; 6) Wireless Client Access; 7) Minimizing Service Loss and Data Theft in a Campus Network; 8) Configuring Campus Switches to Support Voice. This hands-on, lab-oriented course stresses the design, implementation, operation, and troubleshooting of multilayer switched networks. (60-0) *Equivalent to 15-285, SRNE-203.*

NET-284 Optimizing Converged Networks (4 s.h.)
Prerequisite: NET-243, CISCO Wide Area Network (WAN), or NET-201, Network LANS and WANS, CCNA certification, or permission of the instructor. Optimizing Converged Networks is one of four courses leading to the CISCO Certified Network Professional (CCNP) designation. CCNP: Optimizing Converged Networks introduces CISCO Networking Academy Program students to optimizing and providing effective QoS techniques in converged networks operating voice, wireless, and security applications. Topics include implementing a VOIP network, implementing QoS on converged networks, specific IP QoS mechanisms for implementing the DiffServ QoS model, AutoQos, wireless security and basic wireless management. (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.)
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 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. (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 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. Concepts learned in this course lead toward the Microsoft Certified Professional Exam #70-291 Managing a Microsoft Windows 2003 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. (45-0)

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 I, 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). (45-0)

NET-743 Fundamental Project Management (4 s.h.)
 Fundamental 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. Fundamental 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; or NET-113, IT Essentials I; 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-111 Personal Wellness (3 s.h.)
Concepts of exercise science, nutrition, stress management, contemporary health issues and decision making. Assessment, application, and participation in lifetime fitness and skill activities. (45-0)

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.*

PEH-221 Introduction to Leisure Services (3 s.h.)
Introduction to leisure services professions. Examination of the components of leisure services delivery systems, focusing on programs and services, facilities, populations served, and sources of funding. (45-0)

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.*

PEV-180 Varsity Wrestling (1 s.h.)
Course may be repeated for a maximum of two credits. (40-160)

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.*

PHY-106 Survey of Physics (4 s.h.)
Prerequisite/Corerequisite: 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: MAT-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. This course provides an orientation of the history of nursing, ethical and legal principles, and the role of the practical nurse in the health community. Introduction to basic nursing assessments relating to safety and comfort while utilizing the nursing process to identify and meet client needs throughout the life span. Students will be instructed in documentation and communication skills. Instruction in implementation of medical asepsis and safety when performing basic nursing skills. Students will apply, practice, and demonstrate the skills taught in the 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 continues to utilize the nursing process with emphasis on implementation in meeting client needs resulting from physical and psychological impairments. Pharmacology, diet modification, psychosocial concepts, disease process, and health maintenance are incorporated into the student's knowledge and skills. Introduction of concepts and care of the obstetric, newborn, and pediatric client. The student will continue to practice advanced skills in the college lab as

well as clinical experiences in long-term care, pediatrics, medical-surgical, maternal-newborn, and community settings. (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. Practical Nursing III emphasizes utilization of all components of the nursing process to meet client needs resulting from impairments related to disease processes affecting physical and psychological status of the client. Student's knowledge and skills continue to be enhanced in areas of pharmacology, nutrition, mobility, psychosocial concepts, and health maintenance. Concepts of management, legal, and ethical aspects of the nursing profession are presented. A supervised management experience in the long-term care setting allows the student an opportunity to care for a group of clients and apply basic skills in leadership and conflict management. Clinical experiences include medical-surgical, long-term care, mental health, and community setting. (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 topical approach to studying the physical, cognitive, social, and emotional domains of human development from conception to death. Examining the research in these areas allows the student to construct real-world applications to different contexts in life including culture, ethnicity, and gender. Learning activities reflect discussions on a variety of psychological issues including learning, personality, moral behavior, and psychological well-being and life satisfaction across the lifespan. (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 an 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 motor development and the 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 physical agents 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. Special topics discussed are diabetes, pregnancy, amputation, women's health issues, and aquatic therapy. 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. 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 Introduction to the 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-015 Power Reading (2 s.h.)
 Power Reading uses a unique program to increase each student's reading ability. Trained tutors will assess each student's incoming reading skills and will provide each student with appropriate reading material. This course is graded Pass/No Pass and can be repeated for continued reading gains. (30-0)

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. 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. (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. 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. (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. 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. (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. This is an on-line course. (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: 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 survey course, sociology is the scientific study of society. Inquires into what holds societies together, what causes societies to change, and how social forces affect our daily lives. Topics covered include: culture and society, socialization, social research, groups, organizations, institutions, deviance, gender, race, and ethnicity. An emphasis is placed on cultural diversity. (45-0) *Equivalent to SOCS-101, 80-110.*

SOC-115 Social Problems (3 s.h.)

Prerequisite: None, though an introductory course in Sociology is strongly recommended. An 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)

SOC-881 Social Responsibility and Community Service (2 s.h.)

This course is grounded in an appreciation for the health of the community and the potential of the individual to positively impact the well being of the community through direct and active participation. Socially responsible individuals initiate change by transforming their social interests into personal advocacy and social participation in their respective community. This advocacy and participation is actualized through a lifelong commitment to addressing social problems through community service. (15-30)

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-108 Oxy-acetylene Welding and Cutting and Shielded Metal Arc Welding (2 s.h.)

This course gives students basic knowledge and skill in oxy-acetylene welding and cutting and shielded metal arc welding (stick welding). Students will learn proper welding safety practices and procedures. Oxy-acetylene welding and SMAW welding of mild steel will be performed in the flat, horizontal, and vertical positions. Students will also learn how to properly set up, maintain, and troubleshoot welding and cutting equipment. (15-30)

WEL-109 Gas Metal Arc Welding and Gas Tungsten Arc Welding (2 s.h.)

This course gives students basic knowledge in Gas Metal Arc Welding (wire feed) and Gas Tungsten Arc Welding (TIG). Students will learn proper welding safety practices and procedures. GMAW and GTAW welding of mild steel will be performed in the flat, horizontal, and vertical positions. Students will also learn how to properly set up, maintain, and troubleshoot welding equipment. (15-30)

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-138 Oxy-acetylene Welding and Cutting (2 s.h.)

Fusion joining of mild steel and cutting processes. Selection of proper torch tip sizes, filler rods, angles, and travel speeds for O.A.W. processes. The set-up and adjustment of oxy-acetylene welding equipment, along with practical experience using both ferrous and non-ferrous metals. (15-30) *Equivalent to WELD-703, 98-190.*

WEL-222 Arc Welding I (9 s.h.)
Flat and horizontal SMAW, GMAW, and GTAW. 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. (45-180)

WEL-223 Arc Welding II (9 s.h.)
Prerequisite: WEL-222, Arc Welding I. Flat, horizontal, vertical, overhead SMAW, GTAW, and GMAW. The operation of AC and DC transformer arc 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. (45-180)

WEL-335 Ag 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 student learns safety procedures relating to welding subjects and general shop safety. (15-30)

WEL-240 Welding Fabrication/Certification (3 s.h.)
This course is designed to allow students to incorporate all previous welding skills in an effort to fabricate a group project. The student will also utilize this course time to work towards AWS certification. (0-90)

WEL-250 Welding Automation (2 s.h.)
This course is designed to introduce individuals to the automation used in the welding industry. The student will learn the automation process through the use of a robotic welding arm and a CNC plasma table. (15-30)

Student Handbook



STUDENT HANDBOOK

ACADEMIC/DISCIPLINARY POLICIES

Academic Probation/Suspension	183
Fresh Start	183
Grade Appeal Process	183
Instructor Complaint Policy	185
Registered Sex Offender	185
Sexual Harassment Policy	185
Student Conduct Code	186
Technology Policy	190

COLLEGE SERVICES

Bookstore	193
Bus Service	193
College Operating Hours	193
Food Court	193
Library	194
Lost and Found	194
Parking and Security	194

EMERGENCY PROCEDURES

Fire	195
General	195
Inclement Weather	195
Reporting	195
Safety Awareness	196
Tornado	195

STUDENT SERVICES

Career and Internship Center	208
Collegiate Athletic Program	
Athletic Conference	198
Athletic Scholarships	198
Coaches	198
Eligibility	198
Cooperative Education Internship Program	208
Counseling	
Academic Advising	200
Career Counseling	199
Course Placement Information	200
Special Needs	199
Student Access Office	202
Student Health	199
Student Support Services	202
Substance Abuse Prevention	202
Vocational Rehabilitation	202
Financial Aid and Scholarships	
Federal and State Financial Aid	203
Grants/Work Study/Loans	203
Method and Frequency of Financial Aid Disbursements	204
Satisfactory Progress for Financial Aid Recipients	204
Scholarships	205
Veterans' Educational Benefits	207
On-Campus Housing	209
Registration and Records	
Academic Transcript	210

Changes in Registration	210
Classification of Students	210
Credit by Examination	211
Credits and Grading	210
Degree Requirements	212
Family Education Rights and	
Privacy Act (FERPA)	214
Graduation	216
Honors Program	211
Payment Plans/Policies	217
Registration Process	217
Residency Policy Guidelines	217
Title IV Recipients Refund and	
Repayment Policy	218
Tuition and Fees	220
Tuition Refund	220
Student Senate and Campus-Sponsored	
Clubs and Organizations	222

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 IIIC1a 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 IIIC, 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 the 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, use of illegally obtained software, or gathering or distribution of illegally obtained copyrighted digital materials. Using College equipment for any of these purposes 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.

Sharing Copyrighted Materials

Distributing copyrighted songs and/or movies without permission is a violation of the Federal copyright laws. 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. NIACC will cooperate with any criminal investigation regarding these matters. According to copyright laws, you do not need to be making a profit to be prosecuted for distributing copyrighted materials such as music, movie, and software files.

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.niaccbbooks.com for complete information and online ordering.

Summer Hours

May 5 - August 15 9:00 a.m. - Noon
 May 26 - Memorial Day Observed CLOSED
 July 4 - Independence Day Observed CLOSED

Additional Evening Hours

May 5 5:00 - 7:00 p.m.
 June 2 5:00 - 7:00 p.m.

Student Interim Break Hours

December 15, 2008-January 2, 2009 CLOSED
 January 5-9, 2009 8:30 a.m. - 3:00 p.m.
 January 19 - Martin Luther King Day Observed CLOSED

Regular Hours

Beginning August 18 8:30 a.m. - 3:00 p.m.

Extended Evening Hours

August 22, 25-28 8:30 a.m. - 6:00 p.m.
 September 1 - Labor Day Observed CLOSED
 September 2, 3, 4 8:30 a.m. - 5:00 p.m.
 January 9, 12-15 8:30 a.m. - 6:00 p.m.
 January 20-22 8:30 a.m. - 5:00 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.

College Operating Hours

General

Buildings are open to normal student traffic:

Monday-Thursday 7:30 a.m. - 9:00 p.m.
 Friday 7:30 a.m. - 4:15 p.m.

Administrative Office Hours

Monday-Thursday 7:45 a.m. - 9:00 p.m.
 Friday 7:45 a.m. - 4:15 p.m.

Business Office

Monday-Thursday 7:45 a.m. - 5:30 p.m.
 Friday 7:45 a.m. - 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.



Food Court Hours

Academic Year

Monday - Thursday 7:00 a.m. - 2:00 p.m.
 Friday 7:00 a.m. - 1:00 p.m.

Summer Hours

Monday - Thursday 10:00 a.m. - 12:30 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.

A word-processing computer 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 thousands of 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. 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.

The library's Café Bean provides a casual atmosphere where students can meet and relax with coffee. 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 1-July 10, 2009)

Monday - Thursday	7:30 a.m. - 6:00 p.m.
Friday	7:30 a.m. - 4:00 p.m.
Closed Weekends	

Vacations, Summer Term I (May 4-May 28, 2009) and Summer Term III (July 13-August 5, 2009)

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 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	106.1 FM 1490 AM, 102.7 FM
KGLO/KSMA KIA/FOX	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

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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

NIACC Alert

NIACC Alert is the emergency message system for North Iowa Area Community College. NIACC has created this service to provide text messages and e-mail notices to students and staff about campus closings due to weather. It also provides a way for NIACC to quickly notify the campus community about threats to the safety of students and staff.

This service requires each user to log on and choose to receive broadcast text message to their personal cell phone. The service is free but normal text message rates from the user's cell phone service provider will apply.

Each person enrolling in this program will need a NIACC e-mail account. Here is the web page with instructions: <http://www.niacc.edu/niaccalerts/>

For assistance, see the lab attendant in MH-110, BC-100, or the Help Desk in BC-105, or telephone 641-422-4357 or 1-888-466-4222, ext. 4357.

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 2005	FY 2006	FY 2007
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	2
Motor Vehicle Theft	0	0	0

Arson	0	0	0
Negligent Manslaughter	0	0	0

Criminal Offenses

On-campus Residence Hall	FY 2005	FY 2006	FY 2007
Murder/Non-negligent Manslaughter	0	0	0
Forcible Sex Offenses	0	0	0
Nonforcible Sex Offenses	0	0	1
Robbery	0	0	0
Aggravated Assault	0	0	0
Burglary	3	2	2
Motor Vehicle Theft	0	0	0
Arson	0	0	0
Negligent Manslaughter	0	0	0

Disciplinary Actions/Judicial

Referrals - On-campus	FY 2005	FY 2006	FY 2007
<u>Crime</u>			
Liquor Law Violations	23	19	37
Drug Law Violations	3	2	1
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 186.)

Sexual assault prevention programs are sponsored annually on the NIACC campus with the goal of promoting safe, healthy, nonviolent 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, wrestling, 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.

Dan Mason, Athletic Director

Coaches

Baseball.....	Todd Rima
Basketball, Men's	Bryan Martin
Basketball, Women's	John Oertel
Cross Country, Men's and Women's	Curtis Vais
Football.....	TBA
Golf, Men's and Women's	Chris Frenz
Soccer, Men's	Mike Regan
Softball.....	Tyler Sisco
Track & Field, Men's and Women's.....	Curtis Vais
Volleyball	Mary Jo Vrba
Wrestling.....	Richard Fergola

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 secretary 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.

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 strives to provide an accessible environment for students, faculty, and staff. We provide support to students with disabilities in reaching academic goals and work to ensure equal access to educational opportunities.

North Iowa Area Community College employs a Disability Services Counselor who coordinates services between students with disabilities and their interactions with the college. Working in partnership with the student, the Disability Services Counselor will assist in developing an individual plan for services that will include accommodations in testing and instruction.

A student with a disability must submit documentation to verify presence of a disability and request services by contacting the Disability Services Counselor in the Student Access Office, AB106. For additional information, contact us at 1(888)GO NIACC, ext. 4413, and ask for a brochure regarding Disability Services or to request a meeting with the Disability Services Counselor.

If you are a student with a disability, you should complete the steps listed below:

1. Submit documentation to verify presence of a disability. *Documentation is kept confidential. Information is shared with NIACC faculty and staff on a need to know basis following the guidelines of FERPA, or as directed by the student.*
2. Meet with the Disability Services Counselor to discuss individual needs and complete an Accommodations Request Letter. *Please note: An Accommodations Request Letter must be completed each semester with our office.*
3. The Disability Services Counselor will prepare and provide a copy of the Accommodations Request Letter for the instructor of each course for which accommodations are requested.
4. To initiate a request, the student must deliver a copy of the document to the instructor of each course for which an accommodation is requested.
5. Meet with the instructor(s) to discuss how accommodations will be implemented. *(If there are any questions from the student or instructor regarding accommodations, please contact the Disability Services Counselor.)*

NIACC will offer *reasonable* accommodations to qualified students with disabilities on a case-by-case basis.

NIACC Disability Services may determine that a reduced course load is a reasonable accommodation for a student with a disability. Documentation from a qualified professional supporting this request is required.

For more information regarding this and other accommodations, stop by the Disability Services Office at AB-106 or go online to <http://www.niacc.edu/supser/title3/disabilityservices.html>

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.

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 below contains the course placement information used for entry-level advising.

COURSE PLACEMENT INFORMATION for Entry-Level Advising

MATHEMATICS PLACEMENT					
Entrance exam score requirements must be met.					
ACT* Math	COMPASS				Course Placement
	Pre Algebra	Algebra	College Algebra	Trig	
01-11	01-24				MAT-030 Enrich Math I
12-17	25-75				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)
12-17	25-75				MAT-089 Survey of Mathematics 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. Survey of Mathematics or equivalent must be met before registration in MAT-110 Math for Liberal Arts (MLA) Chance of receiving a C or higher in MLA: ACT 17 or lower: 0-34% COMPASS Pre-Algebra 75 or lower: 0-43% COMPASS Algebra 39 or lower: 0-35%
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 (HVAC), Electromechanical, and Tool & Die Programs)
18-20	76-100	40-55			MAT-110 Math for Liberal Arts - Only with assistance - must take SI or Math Lab. Decision Zone: Without assistance, chance of receiving a C or higher in MLA: ACT 18-20: 43%-60% COMPASS Pre-Algebra: 76-100: 44%-52% COMPASS Algebra: 40-55: 38%-75%
21 or higher		56-100			MAT-110 Math for Liberal Arts Math for Liberal Arts or other transfer math class as appropriate. Chance of receiving a C or higher in MLA: ACT 21 or higher: 68% and up COMPASS Algebra 56 or higher: 77% and up
*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.					

MATHEMATICS PLACEMENT					
Entrance exam score requirements must be met.					
ACT* Math	COMPASS				Course Placement
	Pre Algebra	Algebra	College Algebra	Trig	
20-21		51-75			MAT-102 Intermediate Algebra - This course may not be used to satisfy core requirements. Elective credit only. MAT-112 Math for Elementary Teachers I
21-26		76-100	1-40		MAT-121 College Algebra MAT-134 Trigonometry & Analytic Geometry (Requirement: ACT = 26) MAT-140 Finite Math MAT-156 Introduction to Statistics
26-27			41-50		MAT-128 Precalculus
28-36				51-100	MAT-210 Calculus I
*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		
Entrance exam score requirements must be met.		
ACT English	COMPASS Writing	Course Placement Guidelines
01-15	01-52	ENG-015 Elements of Writing - Students who enroll in Elements of Writing MAY receive 3 hours of ENG-105, Composition I, credit if they achieve competency. NOTE: Students in industrial and agricultural programs may substitute ENG-701, Communications I, unless transfer is their primary goal.
16-36	53 and above	ENG-102 Composition & Speech I Note: Students in industrial and agricultural programs may substitute ENG-701, Communications I, unless transfer is their primary goal.
READING PLACEMENT		
ACT Reading	COMPASS Reading	Course Placement Guidelines
01-18	01-81	RDG-125 College Reading Strategies is strongly advised. This course is a recommended prerequisite or corequisite with any Social Science class.
19-36	82-100	Any reading-based course (such as Sociology, History, or Psychology). 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 Access Office

Some of what you can expect from NIACC's Access Office:

- An early alert system for students who appear to be struggling in the classroom.
- A mentoring program to help students transition from high school to college.
- Tutoring Services (*Housed under NIACC's Learning Support and Student Services Offices*)
- Written policies and procedures regarding disability services
- Faculty and staff awareness training
- Academic Advising with a Disability Services Counselor
- Monitoring of student progress
- Transition Workshop (for juniors and seniors in high school, incoming college freshmen, along with parents, high school counselors, teachers, administrators, etc.)

NIACC recently opened the Student Access Office dedicated to providing college resources to promote student success. Our purpose is to ensure that entering students adapt to college life, become engaged in the social and academic communities of the College, are prepared for and succeed in college-level courses, have a plan in place to reach their goal, and are guided and supported as they acquire skills and knowledge to become more successful.

Three primary components of the Student Access Office:

Academic Placement and Support - NIACC provides built-in activities that support students' academic success from the time they enter college.

- a. Students with disabilities receive one-on-one counseling and support from the Counselor for Disability Services. NIACC provides comprehensive support services, utilizing assistive technology, to help overcome obstacles to educational success.
- b. **Supplemental Instruction (SI)** - An academic program that is offered for courses that are traditionally considered difficult due to low pass rates, but that are common classes students choose to take to fulfill their academic programs at NIACC. SI discussion sessions are facilitated by trained student SI leaders who have been successful in the classes being referred to and are overseen by NIACC's Supplemental Instruction Coordinator.

These sessions are designed to supplement, not replace, class lectures. SI sessions are interactive, providing students another opportunity to participate in the learning process and promote academic success. These sessions are generally held twice a week for one hour each.

Student Engagement

- a. Freshmen students participate in a Mentoring Program that will help them make immediate connections with NIACC staff and faculty. This involves participation of NIACC employees who are trained as mentors and will help ease incoming students' transition and adjustment to the college environment.
- b. **Learning Communities** - Teaching teams will facilitate cross-curricular courses involving several academic divisions. The

paired courses will help students make connections between one subject and another, as well as between themselves and the material they are studying.

Educational Goal Setting and Intervention

- a. NIACC students work with individuals at NIACC to create an educational plan. In order to capture students' educational goals and monitor their progress, a tracking system is in place. The **Student Education Plan** will serve as each student's customized road map to educational success.
- b. **Early Alert System** - This system will trigger interventions at critical points in time during the educational process. At the first sign of trouble, including attendance problems and academic struggle, a variety of proactive interventions will occur to provide the student an opportunity for increased success at NIACC.

If you have questions regarding the Student Access Office, you may visit us on the NIACC Campus in AB106, give us a call at (888)GO NIACC, ext. 4413, send us an e-mail at devriang@niacc.edu, or visit our website at www.niacc.edu/supser/title3/index.html.

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 Administration Building, Room 106.

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, 2009, 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

Academic Competitiveness Grant (ACG)

ACG grants are awarded to students that attend college immediately after high school and meet the Department of Education guidelines of having completed a rigorous course of study. ACG grants may be renewed for the second year of study.

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) and State Work Study (SWS)

- Part-time work opportunities
- Federally and/or state 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 determined on July 1 for the 2008-09 academic year
- Eligibility is determined from the Free Application for Federal Student Aid (FAFSA)
- Student must demonstrate need
- Department of Education loan origination fee of 2.0%

		Base Stafford Eligibility	Additional Unsubsidized Eligibility
Dependent	Freshman	\$3,500	\$2,000
	Sophomore	\$4,500	\$2,000
Independent	Freshman	\$3,500	\$6,000
	Sophomore	\$4,500	\$6,000

Federal Direct PLUS Loan

- Low interest loans, fixed rate determined on July 1 for the 2008-09 academic year
- 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%
- Option to defer repayment

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 DVD 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.

Foundation Policy

Scholarship recipients must be full-time students through the fourth week of classes. Withdrawal before that date will be grounds for revocation of the scholarship.

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.

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.

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.

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.

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.

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
Bergland + Cram Endowment 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
R. L. and Helen Currie Memorial Scholarship
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
Lloyd and Georgetta Farrer Scholarship
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
Dale E. Harmon Memorial Scholarship
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 and Carol Klath Schmiedeskamp Memorial Scholarship
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 Rachele 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
James and Betty Oleson 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
David G. and Jane Angelo Punke Scholarship
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
Patrick Scherber Automotive 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
Wempen Family Scholarship
Maude Wilson Theatre Arts Scholarship Fund
Melvin "Bud" Wilson Scholarship

Term Scholarships (Sponsors vary annually)

ACE Credit Union Scholarship
 Area 2 High School Scholarships
 Noreen H. Barkema Tuition Grants
 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
 Delta Kappa Gamma XI Chapter
 85th Anniversary Scholarship Fund
 First Citizens National Bank Scholarship
 Gene and Pat Galasso Scholarship
 GED Scholarship
 Betty Geer Scholarship Fund
 David and Sandra Gobeli Scholarship
 Mae D. Greene Memorial Scholarship
 Haas Chiropractic Scholarship Fund
 Frank and Margaret Hoffman Organ Study Scholarship
 Naomi and Thor Jensen Scholarship
 G. K. Johnson Scholarship
 Lake Mills Scholarship Fund
 Leadership Scholarship
 Virginia Lawrence Scholarship
 Virginia Lawrence Scholarship in memory of
 Kay Cavanaugh Maring
 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
 Mrs. John (Mildred) McMenimen Memorial Scholarship
 Mercy Medical Center Auxiliary-North Iowa Scholarship
 Metalcraft 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 Public Radio 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
 John and Mary Pappajohn Scholarship
 Robert D. Peterson Scholarship
 The Principal Financial Group Foundation, Inc. Scholarship
 River City Street Rods Scholarship
 75th Anniversary Scholarship Fund
 Bertha Stebens Fine Arts Scholarship Fund

Ira Stinson Memorial Fund
 30 Couple Marathon Scholarship
 George A. Weber Memorial Scholarship
 Wells Fargo Bank Scholarship
 Charles S. and Mildred M. Whitney Scholarship Fund

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.

CAREER AND INTERNSHIP CENTER



The College views Career Services and Internship opportunities as an important part of the educational process, though students must assume the main responsibility for achieving their career goals. The Career and Internship Center is available to provide assistance and support.

Career Services

Employment search support services available to NIACC students and alumni include:

- A system that informs available students and graduates about current job opportunities (registration is required).
- One-to-one support for developing and improving job search skills (includes assistance with completing applications, cover letters, and resumes).
- Access to placement statistics, career information, and job search reference material, and labor market information to assist with career and employment plans.
- Annual job and internship fair.

Internships

North Iowa Area Community College strongly encourages students to consider enrolling in an internship during their college experience. An internship is a partnership between individual students, NIACC, and area businesses and is an ideal way for students to connect their classroom learning to the actual work world. Internships are available during the fall, spring, and summer semesters, and students may participate in more than one internship. The College offers internship opportunities for all students. Opportunities include:

Business Internship Program

The NIACC Business Internship program offers students a learning opportunity that is based on realistic work experience and relative to their program of study. Internships are individualized to enable students to gain valuable work skills and also help determine career choices.

The NIACC Business Internship program directly relates to the four program clusters and over twenty degree programs offered by the Business Division. A business internship is a great opportunity for students to increase their employment skills and learning power, earn college credit, and make key industry contacts that could possibly lead to permanent employment.

Students can earn up to 5 credits per semester, and the course is repeatable. NIACC will provide assistance in locating possible internship sites; however, securing the internship is ultimately the student's responsibility. For more information, please contact Dana Heimbuch at 641-422-4238.

Cooperative Education Internship Program

The Cooperative Education Internship program provides a planned and supervised learning experience that combines academic work with field experience.

This program enables students to gain practical work experience directly related to their academic major or will help them test out a career interest and discover new career possibilities. The goal is to give 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.

Specific Program Internships (Required)

Many NIACC career programs require internship experiences as a part of their program requirements. If you are enrolled in or plan to enroll in a career program, please contact the program leader for internship information.

Workforce Development Partnership

In an attempt to make as many job and internship resources available to students and alumni as possible, the Career and Internship Center works in partnership with Iowa Workforce Development through the Workforce Development Partnership. IWD resources available include:

- Access to online registration for job notification and referral services.
- Free job search and preparation workshops.
- Wage surveys, job outlooks, and other labor market studies.
- Referrals to programs that help defray training/educational costs.

The Career and Internship Center is located on the NIACC Campus, Pappajohn Entrepreneurial Center, Rooms 115 and 116, or can be reached by phone at 641-422-4292. Although appointments are encouraged, students are welcome to stop in anytime.

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, blinds, 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. 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 2008-09 college year are as follows:**

<i>Application Fee (nonrefundable)</i>	<i>\$ 25</i>
<i>Damage Deposit (refundable)</i>	<i>\$ 50</i>

Room and Board - Residence Hall

<i>Double Room</i>	<i>\$ 2,268 per semester</i>
.....	<i>\$ 4,536 per academic year</i>
<i>Single Room</i>	<i>\$ 2,618 per semester</i>
.....	<i>\$ 5,236 per academic year</i>

<i>Apartments (per resident)</i>	<i>\$ 2,618 per semester</i>
.....	<i>\$ 5,236 per academic year</i>

*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" (withdrew) 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).

For the purpose of determining the appropriate academic load for summer enrollment, 3 credit hours is considered full time for Summer Term I (4-week period) and Summer Term III (3-week period), and 6 credit hours is considered full time for Summer Term II (6-week period). Any student enrolled in 9 or more credit hours for any combination of summer terms is considered full time. (This definition is for academic purposes only. Enrollment levels are different for Financial Aid purposes. Please contact the Financial Aid Office for further information.)

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

- Acceptance of credit by NIACC does not guarantee acceptance at other colleges.
- 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
F00

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 through Web Advisor. These reports are not recorded on the student's permanent record. Official reports showing final grades will be available to all students through Web Advisor 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. (Any additional performance courses will be counted as elective credit.)

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 40 semester hours:

Communication 8 s.h.

Social Sciences/Humanities 8 s.h.

Natural Science/Mathematics 20 s.h.
(must include at least one math and at least one science course)

Distributed Requirement 4 s.h.

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 134-135 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 required or advised to take a pass/no pass course to meet their degree or diploma requirements will not be excluded from 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.

Students required or advised to take a pass/no pass course to meet their degree or diploma requirements will not be excluded from graduation 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.

Students required or advised to take a pass/no pass course to meet their degree or diploma requirements will not be excluded from the Hall of Fame.

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/POLICIES

One 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 11, 2008. Spring semester bill will be sent in December and is due in full January 5, 2009.

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 11 for the Fall Term and January 5 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 PROCESS

Registration

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.

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 GUIDELINES

Reclassification 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.

$\$ 1000 \times 22.93\% = \$ 229.30$, the amount the college can apply to charges.

$\$ 1000 \times 77.07\% = \$ 770.70$, 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.....	-343.95
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.

$\$ 1000 \times 50\% = \$ 500$, the amount the college can apply to charges.

$\$ 1000 \times 50\% = \$ 500$, 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.....	-500
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, 2008, and is subject to change or modification.

SEMESTER HOUR LOAD	IOWA RESIDENT TUITION	NON-IOWA RESIDENT TUITION
1	\$ 103.55	\$ 155.33
2	207.10	310.66
3	310.65	465.99
4	414.20	621.32
5	517.75	776.65
6	621.30	931.98
7	724.85	1,087.31
8	828.40	1,242.64
9	931.95	1,397.97
10	1,035.50	1,553.30
11	1,139.05	1,708.63
12	1,242.60	1,863.96
13	1,346.15	2,019.29
14	1,449.70	2,174.62
15	1,553.25	2,329.95
16	1,656.80	2,485.28
17	1,760.35	2,640.61
18	1,863.90	2,795.94
19	1,967.45	2,951.27
20*	2,071.00	3,106.60

*20 HOUR CAP ON TUITION AND FEES

Fees

SEMESTER HOUR LOAD	MATERIALS/ LAB & SUPPLIES FEE**	STUDENT ACTIVITIES FEE
1	\$ 9.70	\$ 3.00
2	19.40	6.00
3	29.10	9.00
4	38.80	12.00
5	48.50	15.00
6	58.20	18.00
7	67.90	21.00
8	77.60	24.00
9	87.30	27.00
10	97.00	30.00
11	106.70	33.00
12	116.40	36.00

13	126.10	39.00
14	135.80	42.00
15	145.50	45.00
16	155.20	48.00
17	164.90	51.00
18	174.60	54.00
19	184.30	57.00
20*	194.00	60.00

*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

NIACC Singers

Uniform Rental\$ 25/semester

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
Automotive Club	Automotive	Greg Arrowood/Rob Heimbuch
Campus Crusade for Christ	Student Services	Brent Hamilton
Collegiate Entrepreneurs' Organization	Pappajohn Entrepreneurial Center	Tim Putnam
Defensive Tactics	Physical Education	Bordon Plunkett
Disc Golf	Student Services	Charles Schroeder
Education Club	Education	Kacy Larson
Equity Alliance Club	Student Services	Jeff Platt/Larry Kollman
Environmental Affairs Club	Biology	Craig Zoellner
Forum Club	Ethics	Joe Davis
INC	Communication Skills	Joe Davis/Diana Cameron
Math Club	Mathematics	Kathy Rogotzke
Multicultural Student Union	Humanities	Geri Schwarz
NetBytes	Information Technologies	Mary Mosiman
Nursing Club	Nursing	Laurie DeGroote
Older Wiser Learners	Student Services	Cindy Lind
Physical Therapist Assistant Club	PTA	Susan Callanan
Polar Bear Club	Student Services	Borden Plunkett
Ski and Snowboard Club	Student Services	Bruce McKee
Tennis Club	Student Services	Jamie Zanios

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

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.

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.

Equity Alliance Club

The mission of the Equity Alliance Club is threefold: 1) Educate the NIACC community about gay, lesbian, bisexual, transgender, and straight ally issues; 2) Support members of the NIACC community who are coming to accept their sexual and/or gender orientation; 3) Create a safe place for all NIACC students to come together socially and be themselves without the fear of reprisal from bigoted or intolerant people.

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.

INC

The INC organization's mission is to promote literature by providing a literary magazine.

Math Club

The Math 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.

Older Wiser Learners

If you've been out of the educational system for some time, Older Wiser Learners may help you feel more comfortable. Older Wiser 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.

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.

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/>.

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	Dan Mason
Collegiate Athletics	Physical Education	Dan Mason
Drama	Communications	Tim Slaven
Instrumental Music	Music	John Klemas
Intramurals	Physical Education	Athletic Office
Logos	Journalism	Paul Peterson
Phi Theta Kappa	Student Services	Jeff Platt
Vocal Music	Music	Jayson Ryner

Other student services/activities receiving Student Activities funding:

- Health Services
- New Student Orientation
- Pathways to Success

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.

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.

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.



North Iowa Area Community College

Business Administration

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NIACC News Headlines

NIACC JPEC and SBOC Host 'Show Me The Money II' Entrepreneurs' Exchange on October 1

NIACC Partners with University of Iowa on 2 Plus 2 Transfer Plan

NIACC Joins the 2016-2017 Admission Program and ASB Articulation

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Staff



PRESIDENT

Debra Derr, *President*; 2008

B.A. Linfield College; M.S. Portland State University; Ed.D., Oregon State University

Ronda Smith, *Assistant to the President*; 1995

Diploma, Spencer School of Business; A.A., North Iowa Area Community College; additional course work at Mankato State University and Buena Vista 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

Karo Brattrud, *Administrative Assistant*; 2008

A.S.B., North Iowa Area Community College

William Backlin, *Evening Dean*; 2008

A.A., North Iowa Area Community College; B.M.E., Drake University; M.M., University of Northern Iowa

Academic Faculty

Agricultural Technology

Joshua Byrnes, *Agriculture and Industrial Division Chairperson*; 2005

B.A., Luther College; M.S., Winona State University

Larry Eichmeier, *Program Leader, 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, *Herdsmen/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 Business 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

Michael Dirksen, *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; M.A., Morningside College; additional course work at University of Iowa and Drake University

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 and Metro State University

Tracy Purchase, *A+, MCP, MCDST, PC Technician Instructor*; 2003

B.S., Capella University; M.I.S.M., Keller Graduate School of Management; additional course work at Capella University

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

Randy Smit, *Business Instructor*; 2006

B.A., Northwestern College; M.B.A., University of Phoenix; additional course work at Buena Vista University

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

Chad McLane, *Composition and Speech*; 2008

B.A., Brigham Young University; M.A., Marquette 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 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, Health*; 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; additional course work at University of Northern Iowa

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

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

Lori Hall, *Associate Degree Nursing*; 2007

A.D.N., North Iowa Area Community College; B.A., University of Iowa; M.S.F.S., National University in San Diego; additional course work at University of Phoenix

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; M.S.N., University of Iowa; 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 Schmaltz, *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

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, Ph.D., Capella University; additional course work at Keene State College, NH, University of Northern Iowa, Iowa State University, and Drake University

John Klemas, *Instrumental Music Director*; 1987
B.M.E. and B.M., Drake University; M.A., Washington State University

Larry Kollman, *Psychology Instructor*; 2005
A.A., North Iowa Area Community College; B.A., Buena Vista University, M.S.W., Augsburg College; additional course work at Morningside College, Iowa State University, and Capella 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

Joshua Byrnes, *Agriculture and Industrial Division Chairperson*; 2005
B.A., Luther College; M.S., Winona State University

Diane Greimann, *Office Assistant, Murphy Manufacturing Technology Center*; 2002
Diploma, Hamilton Business College

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)

Randy Bonde, *Industrial Maintenance*; 2008
Machine Shop Technology Certification, Iowa Central Community College; Journeyman Tool & Die Maker, U.S. DOL

Tom Crowley, *Climate Control (HVAC)*; 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.

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

Gregg Helmich, *Building Trades*; 2007

B.S., Murray State University; additional coursework at Western Kentucky University, Central Southeastern Missouri State University, and Drake University

Gary Loftis, *Automotive Maintenance*; 2000

Diploma, University Trade Schools

Kevin Losee, *Tool & Die Technology*; 2006

A.A.S., Southeastern Community College; A.A.S., North Iowa Area Community College; Journeyman Tool & Die Maker, U.S. DOL

Jason Ott, *Climate Control (HVAC)*; 2007

A.A.S., North Iowa Area Community College

Jack Rohde, *Automotive Services Technology*; 2002

A.A.S., Montcalm Community College; A.S.E. Certified Master Automobile Technician

Tim Westrum, *Welding*; 2007

A.S., North Iowa Area Community College; B.S., Iowa State University

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

Brent Hamilton, *Mathematics*; 1998

B.S., University of Dubuque; M.S., Iowa State University; additional course work at Garrett-Evangelical Theological Seminary

Paul Hertz, *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

Kean-Woon "David" Liew, *Mathematics*; 2006

Diploma in Science, Tunku Abdul Rahman College; B.S., Wichita State University; M.S., Wichita State University

Natural Science

Jason Friday, *Division Chair, Natural Science; Instructor,*

Biological Science; 2003

B.A., University of Iowa; M.A., Quinnipiac University

Jody Fink, *Natural Science Associate*; 1985

A.S.B., North Iowa Area Community College

David Chyba, *Physics*; 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

Patrick Galliard, *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

Mark Kabele, *Natural Science Associate*; 1998

B.S., University of Wisconsin; additional course work at North Iowa Area Community College

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, Iowa State University, and University of Northern Iowa

Theodore Weiland, *Chemistry*; 2007

B.S., University of Wisconsin - Eau Claire; M.S., Iowa State University

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, Drake University, Carleton College, University of Illinois, Northwest Missouri State, and University of Minnesota - Duluth

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

Kathy Clemens, *Office Assistant*; 1993
Course work at Northwestern College

Elizabeth Gales, *Director of Performing Arts and Leadership Series*; 1990
B.A., College of St. Catherine

Dena Ketelsen, *Office Assistant*; 2007
Paraeducator Certification, Hawkeye Community College

Pat O'Banion, *Office Assistant*; 1975
Diploma, Hamilton Business College; additional course work at North Iowa Area Community College

Merlin Schafer, *Auditorium Technician*; 2002
A.S. and A.S.B., 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, FSI

Constance Glandon, *Charles City/Hampton/Osage Community Education Coordinator*; 2000
B.A., Wartburg College; M.S., Capella University

Lana Miller, *Office Assistant, Charles City Center*; 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

John Sjolinder, *Trade and Industry Coordinator*; 2000
A.A.S., North Iowa Area Community College; B.S., Iowa State University; M.B.A., Iowa State University

Learning Support

Jessica Putnam, *Director of Learning Support*; 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

Christine Brandt, *Developmental Math Instructor*; 2007
B.A., University of Northern Iowa; additional course work at Morningside College and Drake University

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

Linda Ferguson, *Adult Education Records Specialist*; 2007
Diploma, School of Radiologic Technology, Mercy Medical Center - North Iowa; A.A., North Iowa Area Community College

Senora Gilley, *Title III Supplemental Instruction/Early Alert Coordinator*; 2006
Diploma, Hawkeye Community College; A.A., Hamilton College; B.A., Hamilton College; M.A., University of Phoenix

Deborah Kolb-Jackson, *Library Circulation Assistant*; 2007
A.A., Bethany Lutheran Junior College; B.S., Mankato State College; M.S., Mankato State University

Kim Kraus, *Library Serials Associate*; 1984
Clerical Diploma, Hamilton Business College; additional course work at 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

Fran DeGroote, *School Partnership Coordinator*; 1998
B.A., University of Northern Iowa; M.E., Iowa State University

Barbara Erickson, *Administrative Office Assistant*; 2007

Deb Throne, *School Partnership Coordinator*; 2007
A.A., Waldorf College; B.A., Buena Vista University; Secondary Business Education Certification/English Endorsement, Buena Vista University

ADMINISTRATIVE SERVICES

Kathy Grove, *Vice President for Administrative Services*; 1977
A.A., North Iowa Area Community College; B.A., Buena Vista University; additional course work at Iowa State University

Mary Cole, *Administrative Services Office Manager*; 1988
Diploma, American Institute of Business; additional course work at Des Moines Area Community College

Denise Brooks, *Office Assistant, Administrative Services/Receptionist*; 1987
Diploma, Hamilton Business College

Ann Fisher, *Office Assistant, Administrative Services/Human Resources*; 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

Mindy Eastman, *Accountant/Business Office Manager*; 1990
A.A., North Iowa Area Community College; B.A., Buena Vista University

Valerie Borseth, *Accounts Payable Clerk*; 1989
A.S.B., Accounting Diploma, Accounting Clerk Diploma, North Iowa Area Community College

Shannon Carpenter, *Accounts Receivable Clerk*; 2005
A.A., Hawkeye Community College; additional course work at University of Northern Iowa and Buena Vista University

Krystal Crandall, *Business Office Clerk*; 1998
Accounting Clerk with Computers Diploma and A.S.B., 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

Jennifer Rosauer, *Office Assistant/Bookkeeper*; 2006
A.A., North Iowa Area Community College; B.S., Iowa State University

Dining Services

Ken Webber, *Food Service Director*; 2004

Stephen Metz, *Food Service Manager*; 2004

Human Resources

Shelly Schmit, *Director of Human Resources and Director of Institutional Research*; 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, *Office Assistant Administrative Services/Human Resources*; 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 Resources 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

Facilities Management

Tony Pappas, *Director, Facilities Management*; 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

Bill Beach, *Custodian*; 1981

Jerrold Behr, *Custodian*; 2007
A.A., 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, *Office Assistant*; 1998
A.A., North Iowa Area Community College; B.A., Buena Vista University

Dan Hicok, *Building Maintenance*; 2003

June Lauritson, *Custodian*; 2000

David Lief, *Custodian*; 2005

Allan Meyer, *Custodial Maintenance*; 2004

Michelle Moore, *Custodian*; 2007

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

David Pope, *Mechanic*; 2008

Alvin Reiter, *Custodian*; 1977

Linda Rourick, *Campus Facility/ICN Scheduler*; 1994
B.S., Iowa State University

Rusty Seidel, *Grounds Maintenance*; 1984
A.A., North Iowa Area Community College

Michael Shea, *Custodian*; 2001

Deb Smith, *Campus Facility-ICN Scheduler/Housing Office Assistant*; 1997
Diploma, North Iowa Area Community College

James Stepleton, *Custodian*; 2006
A.S., Iowa Central Community College; B.S., Mankato State University

David Swartwood, *Grounds Maintenance*; 2005
B.A., MidAmerica Nazarene University; course work at South Carolina School of Ministry

Cheryl West, *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 Zanos, *Director, John Pappajohn Entrepreneurial Center, and Director, Institutional Advancement*; 2003
B.B.A., University of Iowa

Molly Anderegg, *Fund Development Specialist/Grant Writer*; 2008
B.A., University of Iowa; course work at Cottey College and North Iowa Area Community College

Laura Eekhoff, *Administrative Office Assistant, Institutional Advancement*; 2007
A.A. and B.A., Dordt College

Molly Knoll, *Assistant Director of Institutional Advancement*; 2003
A.A., North Iowa Area Community College; B.A., University of Northern Iowa

JOHN PAPPAJOHN ENTREPRENEURIAL CENTER

Jamie Zanos, *Director, John Pappajohn Entrepreneurial Center, and Director, Institutional Advancement*; 2003
B.A., University of Iowa

Kelly Crane, *Administrative Assistant - JPEC Business Incubator*; 2006
B.S., Northwest Missouri State University

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; M.P.A., Drake University

Terry Schumaker, *Director of Economic Development/Special Projects and Director of NIACC Career and Internship Center*; 2000
A.A., North Iowa Area Community College; B.S., Mankato State University; M.B.A., Drake University; additional course work at Buena Vista University and Iowa State 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 the 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; M.A., University of Northern Iowa

Cheryl Jahnel, *Marketing and Community Relations Assistant*; 2007
A.A., North Iowa Area Community College; B.A., 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/Title III Coordinator*; 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

Tanya Dadisman, *Administrative Assistant, Admissions*; 2007
A.A., North Iowa Area Community College; B.A., University of Northern Iowa

Chris Frenz, *Adult Student Recruiter*; 2006
Broadcasting Certification, Brown Institute

Cindy Lind, *Financial Management Advisor*; 2005
A.A., North Iowa Area Community College; B.A., Iowa State University; additional course work at Drake University, Iowa State University, and North Iowa Area Community College

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

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

Dan Mason, *Director of Athletics*; 2006
B.A., North Park University; M.A., Minnesota State University-Mankato

Richard Fergola, *Instructor/Head Wrestling Coach*; 2007
B.S. and M.S., Emporia State University

Chris Frenz, *Head Men's and Women's Golf Coach*; 2006
Broadcasting Certification, Brown Institute

Bryan Martin, *Head Men's Basketball Coach*; 2005
B.A., Simpson College; M.A., University of South Dakota; additional course work at Morningside College

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

Emily Ruehlw, *Administrative Office Assistant, Athletics*; 2007
A.A., Marshalltown Community College; B.A., University of Northern Iowa

Tyler Sisco, *Head Softball Coach*; 2003
A.A., Ellsworth Community College; B.A., University of Northern Iowa; M.A., Livingston University

Curtis Vais, *Head Track and Cross Country Coach/Assistant to the Athletic Director*; 2004
B.A., Mount Saint Claire College

Mary Jo Vrba, *Head Volleyball Coach*; 2003
A.A. and A.S., North Iowa Area Community College; B.A., Wartburg College; additional course work at University of Northern Iowa

Counseling/Academic Advising/Title III

Terri Bonner Ewers, *Director of Counseling/Title III*; 1988
A.A., North Iowa Area Community College; B.A., University of Northern Iowa; M.S., Iowa State University; Ed.S., Ed.D., Drake University; additional course work at Marycrest College, University of Iowa, and Iowa State University

Angie DeVries, *Title III Administrative Assistant*; 1998
A.S.B., North Iowa Area Community 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 the University of Iowa

Dawn Guzman, *Counseling/Advising Office Assistant*; 2006
A.S.B., North Iowa Area Community College

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

Lisa Vance, *Title III Special Populations Counselor*; 2006
A.A., Iowa Central Community College; B.S., University of Iowa; M.A., University of Iowa

Student Support Services

Kathryn Long, *Director of Student Support Services/Counselor - Student Support Services*; 2002
B.A., Clarke College; M.P.S., Loyola University; L.M.S.W.

Gary Herrig, *Student Support Services Counselor*; 2007
B.S., University of Iowa; M.S., Drake University

Jennifer Patterson, *Tutorial Coordinator/Instructor*; 2000
A.A.S., North Iowa Area Community College; B.A., Buena Vista University

Andrea Watters, *Administrative Office Assistant - Student Support Services*; 2007
A.S., A.S.B., A.A., North Iowa Area Community College

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

Carla Alexander, *Office Assistant, Financial Aid/Scholarship*; 1994
Course work at University of Missouri

Rhonda Groshens, *Office Assistant, Financial Aid*; 2007
A.A., North Iowa Area Community College

Rhonda Nesheim-Kauffman, *Associate Director of Financial Aid*; 1996
A.S.B., North Iowa Area Community College; B.A., Buena Vista University

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

Daniel Juhl, *Security/Student Housing*; 2007
A.A.S., North Iowa Area Community College

Deb Smith, *Housing Office Assistant/Campus Facility-ICN Scheduler*; 1997
Diploma, North Iowa Area Community College

Registration

Michelle Petznick, *Registrar*; 1996
A.A., North Iowa Area Community College; B.A., University of Northern Iowa

Mary Wendt, *Assistant Registrar/Student Records Research Coordinator*; 1976
A.A., North Iowa Area Community College

Maryls Katuin, *Office Assistant, Records Office*; 1979
Diploma, North Iowa Area Community College

Susan Steig, *Office Assistant, Records Office*; 1978
Diploma, North Iowa Area Community College

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 Bathke, Vocational Rehabilitation Secretary

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

Dennis Klemas, *Computer Technician Coordinator*; 1998
A.A.S., North Iowa Area Community College

Lisa Ludwig, *Computer Technician*; 1999
A.A., Waldorf College; Microsoft Network Engineer Certificate, Hamilton College; B.A., Buena Vista University; additional course work at Mankato State University

Bruce McKee, *Instructional Technology Coordinator*; 1991
B.F.A., University of Minnesota; M.A., University of Northern Iowa

Beckie Minear, *System Administrator/Programmer-Analyst*; 2007
Diploma, A.S.B., and A.A., North Iowa Area Community College

Lois Spieker, *Help Desk/Media Technician*; 1989
A.A., North Iowa Area Community College

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

Workforce Investment Act

Janice Grandstaff, *Employment Training Specialist*; 1983

B.A., University of Northern Iowa

Jerold Magnuson, *Employment Training Specialist*; 1998

A.S., New England Institute of Technology; A.A., North Iowa Area Community College; B.A., Buena Vista University

Economic Development

Terry Schumaker, *Director of Economic Development/Special*

Projects and Director of NIACC Career and Internship Center; 2000

A.A., North Iowa Area Community College; B.S., Mankato State University; M.B.A., Drake University; additional course work at Buena Vista University and Iowa State University

Career and Internship Center

Terry Schumaker, *Director of Economic Development/Special*

Projects and Director of NIACC Career and Internship Center; 2000

A.A., North Iowa Area Community College; B.S., Mankato State University; M.B.A., Drake University; additional course work at Buena Vista University and Iowa State University

Dana Heimbuch, *Internship Coordinator*; 1998

A.S.B., North Iowa Area Community College

Tina Kunzman, *Career Services Coordinator*; 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 Program Supervisor*; 2000

B.A., University of Northern Iowa

Bonnie Glidden, *Workforce Advisor*; 2000

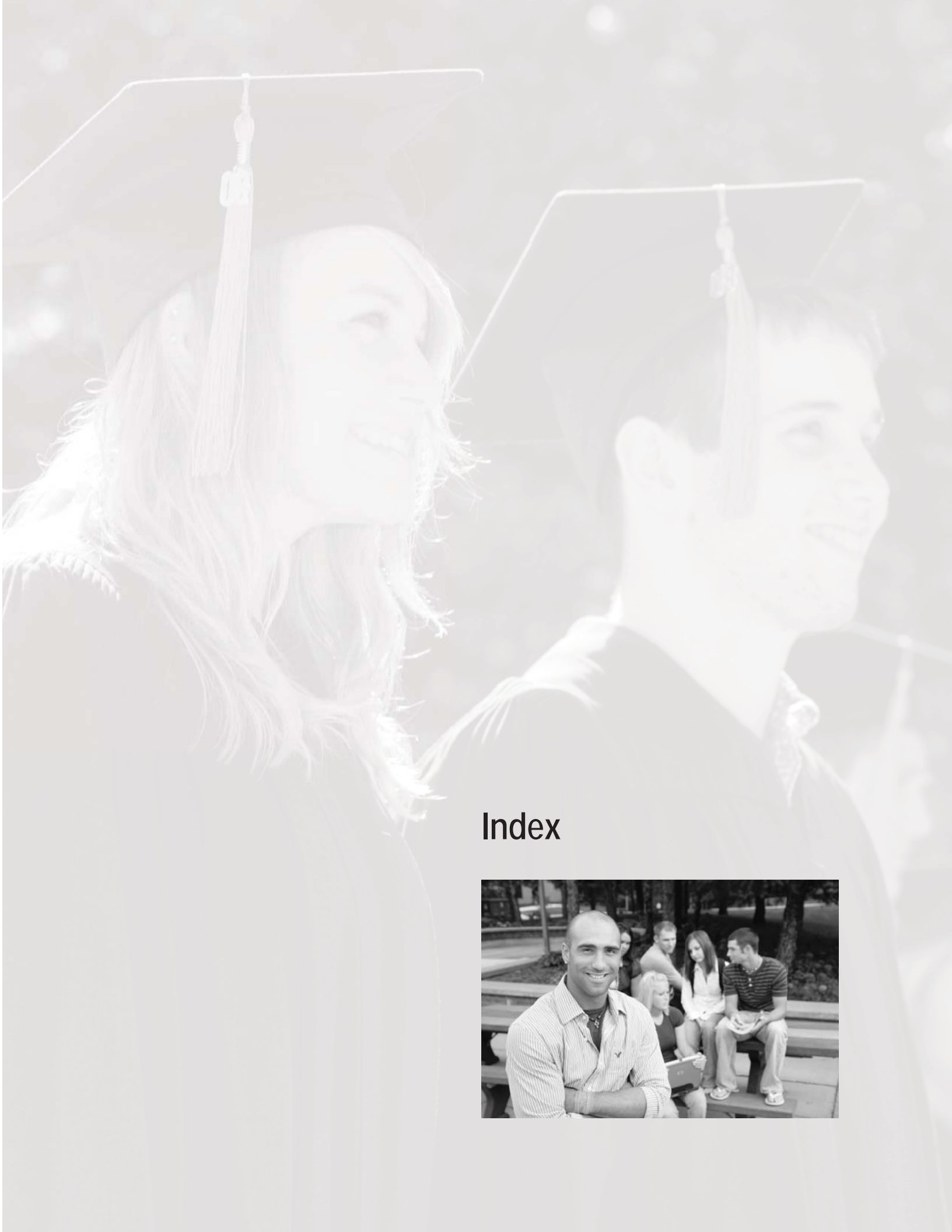
A.A., North Iowa Area Community College; B.S., Mankato State University

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

Heather Stubbe, *Workforce Advisor*; 2007

B.A., Morningside College



Index



Academic/Disciplinary Policies	183	Legal Office Specialist	57
Academic Probation/Suspension	183	Medical Coding	57
Fresh Start	183	Medical Office Associate	59
Grade Appeal Process	183	Medical Office Specialist	60
Instructor Complaint Policy	185	Medical Transcription	61
Registered Sex Offenders	185	Software Applications Specialist	61
Sexual Harassment Policy	185		
Student Conduct Code	186	Career Academies	104
Technology Policy	190	Career and Internship Center	7, 208
Accreditation	4	Career Link Programs and Classes	137
Admissions	11	Career Programs	19
Applying to the College	12	Agricultural Technology	22–26
International Students	12	Business	28–61
New Student Registration	12	Family, Human, and Leisure Services	64–67
Orientation	13	Health	71–83
Agricultural Technology	22–26	Industrial Technology	90–97
Agricultural Marketing and Finance	25	Public Service	100–101
Agricultural Operations Management	23	Regional Health	86–87
Agricultural Sales & Service	24	Clubs and Organizations	222
Agriculture Technology Diploma	22	Ag Club	223
E-Agribusiness	26	Art Club	223
Articulation	104	Campus Crusade for Christ	223
		Collegiate Entrepreneurs' Organization	223
Board of Directors	4	Defensive Tactics Club	223
Business	28–61	Disc Golf	223
Accounting	29–31	Education Club	223
Associate in Science (Business/Accounting) Degree	29	Enlightened Learners	223
Accounting Certificate Program	31	Environmental Affairs Group	224
Accounting with Computers/Diploma	30	Equity Alliance Club	223
IST/Accounting Specialization	37	Forum Club	223
Business Electives	134	INC	224
Information Technology	32–45	Instrumental Music	225
E-Commerce, Web Design, and Development	32	Intramurals	225
Web Design Specialization	35	Logos	225
Graphic Communication	35	Math Club	224
Information Systems Technology	32	Multicultural Student Union (MSU)	224
Business Technology Specialization	38	NetBytes	224
Cyber Security and Integrity Specialization	39	Nursing Club	224
Desktop Systems Specialization (Software)	40	Older Wiser Learners	224
IST/Accounting Specialization	37	Phi Theta Kappa	225
Management Information Systems (MIS) Specialization	41	Physical Therapist Assistant Club	224
Network Administration Specialization	42	Polar Bear Club	224
PC Technician Specialization (Hardware)	43	Ski and Snowboard Club	224
Software and Video Game Testing Specialization	45	Tennis Club	224
Information Technology Blended Study Certificates	33	Vocal Music	225
Placement Requirements for E-Commerce/IST Programs	34	Coaching Authorization	66
Senior Network Administration	44	College Services	193
Marketing/Management	46–53	Bus Service	193
Banking, Insurance, and Financial Management	48	Cafeteria Hours	193
Entrepreneurship & Small Business Management	46	College Bookstore	193
General Business	49	College Operating Hours	193
Hospitality/Food Service Management	50	Library	193
Marketing and Sales	51	Lost and Found	194
Sport Management	52	Parking and Security	194
Supervision and Management	53	College Transfer Programs	105–130
The Pappajohn Entrepreneurial Certificate Program	47	Accounting	106
Professional Administrative Services	54–61	Agriculture and Agricultural Related	106
Administrative Office Associate	54	Art	106
Administrative Office Specialist	55	Art Education	107
Legal Office Associate	56	Athletic Trainer	107

Biology.....	107	Computer Skills	9
Biology and Environmental Science.....	107	Health & Wellness	9
Business.....	108	Lean Enterprise	9
Chiropractic	110	Manufacturing Skills & Processes.....	9
Coaching	110	North Iowa Business & Industry Group (BIG)	9
Communications.....	110	Office Hours.....	9
Computer Information Systems.....	111	Online, ICN & Facilities	9
Conservation	112	State Funding Programs	9
Conservation Management	112	Cooperative Education Program	208
Criminal Justice	112	Counseling.....	199
Criminology.....	112	Academic Advising	199
Dentistry	112	Career Counseling	199
Education.....	113	Course Placement Information.....	200
Engineering	117	Special Needs	199
English.....	118	Student Access Office	202
Environmental Science/Environmental Policy	118	Student Health.....	199
Exercise Science.....	118	Student Support Services.....	202
Graphic Arts.....	119	Substance Abuse Prevention and Referral	202
History	119	Vocational Rehabilitation Services	202
Home Economics	119	Course Catalog Numbering System.....	137
Humanities.....	119	Course Descriptions	138-180
Human Services	119	ACC (Accounting).....	138
Industrial Technology.....	120	ADM (Administrative Assistant)	138
Information Systems Technology/MIS	121	ADN (Associate Degree Nursing)	139
Journalism	122	AGA (Agriculture - Agronomy).....	139
Law	122	AGB (Agriculture - Farm Management)	140
Liberal Arts/Undecided	123	AGE (Agriculture - Equine).....	140
Marketing.....	123	AGM (Agriculture - Mechanics)	140
Medical Technology	123	AGP (Precision Agriculture).....	140
Mortuary Science	124	AGS (Agriculture - Animal Science)	140
Music	124	ANT (Anthropology).....	141
Nursing	124	ART (Art)	141
Occupational Therapy.....	125	AUT (Automotive Technology).....	142
Optometry.....	125	BCA (Business Computer Application)	143
Pharmacy	126	BIO (Biology)	145
Physical Education	127	BMA (Building Maintenance).....	146
Physical Science	128	BUS (Business)	146
Physical Therapy.....	128	CAD (Computer-Aided Drafting).....	147
Physician	128	CFR (Computer Forensics)	148
Physician Assistant.....	128	CHM (Chemistry).....	148
Physics - Applied.....	128	CIS (Computer Programming).....	148
Political Science	129	CON (Construction).....	149
Psychology	129	CRJ (Criminal Justice).....	150
Public Relations.....	129	DRA (Film and Theatre)	150
Radiology.....	129	DSL (Diesel)	150
Recreation	129	ECE (Early Childhood Education).....	150
Social Work	129	ECN (Economics).....	151
Sports Administration	130	EDU (Early Childhood Education).....	151
Theatre	130	EGT (Engineering Technology)	152
Veterinary Medicine	130	ELT (Electronics)	152
Visual Arts.....	130	EMS (Emergency Medical Services).....	154
Wellness	130	ENG (English Composition)	154
Collegiate Athletic Program	198	ENV (Environmental Science).....	155
Athletic Conference	198	FIN (Finance)	155
Athletic Scholarships	198	FIR (Fire Science).....	156
Coaches	198	FLS (Foreign Language - Spanish).....	156
Eligibility.....	198	GEO (Geography)	156
Continuing Education	9	GRA (Graphic Communications)	157
Business Management.....	9	HCM (Hospitality, Culinary & Management).....	157
Community Education	9	HCR (Heating and Air Conditioning)	158

HIS (History).....	159	Continuing Education	9
HIT (Health Information Technology).....	159	Entrepreneurial Training and Support	8
HSC (Health Sciences)	159	Laboratories.....	8
HSV (Human Services)	160	Library.....	8
HUM (Humanities).....	160	North Iowa Community Auditorium.....	8
IND (Industrial Technology)	160	OK House.....	8
JOU (Journalism)	161	On-Campus Housing.....	8
LIT (Literature).....	161	Small Business Assistance.....	8
MAP (Medical Assistant)	161	Student Activity Center.....	8
MAS (Masonry)	161	Student Learning Center.....	8
MAT (Mathematics)	162	Tobacco-Free Campus	8
MFG (Manufacturing)	165	Family Educational Rights and Privacy Act (FERPA).....	214
MGT (Management)	166	Family, Human, and Leisure Services.....	64-67
MKT (Marketing).....	167	Early Childhood Education.....	64
MLT (Medical Lab Tech)	167	Health, Wellness, and Leisure Services.....	65-66
MUA (Music - Applied).....	167	Human Services	66
MUS (General Music).....	169	Financial Aid and Scholarships	203
NET (Computer Networking).....	170	Federal and State Financial Aid	203
PEA (Physical Education Activities)	173	Grants.....	203
PEC (Coaching Officiating)	173	Loans.....	203
PEH (General Physical Education and Health).....	174	Method and Frequency of Financial Aid Disbursements.....	204
PEV (Intercollegiate Physical Education).....	174	Satisfactory Progress for Financial Aid Recipients	204
PHI (Philosophy)	174	Scholarships	205
PHS (Physical Science)	174	Veterans' Educational Benefits.....	207
PHY (Physics)	174	Work Study.....	203
PNN (Practical Nursing)	175	Foundation.....	9
POL (Political Science).....	175	General Education.....	5
PSY (Psychology).....	175	Definition.....	5
PTA (Physical Therapist Assistant).....	176	General Education Program.....	5
RDG (Reading).....	177	Philosophy.....	5
SDV (Student Development).....	178	General Education and Other Transfer Courses.....	133-136
SOC (Sociology).....	179	General Education Course Categories for Associate in	
SPC (Speech)	179	Applied Science and Diploma Programs.....	20
WEL (Welding)	179	General Information	3
Degree Requirements	5	Health.....	71-83
Associate Degrees	5	ADN Option for Licensed Practical Nurses	76-77
Associate in Applied Science	6	Associate Degree Nursing.....	74-75
Associate in Arts.....	5	Medical Assistant.....	72
Associate in General Studies	7	Medical Laboratory Technician	72
Associate in Science	6	Physical Therapist Assistant.....	80
Associate in Science (Business).....	6	Practical Nursing	76-77
Certificates.....	7	Radiologic Technology.....	82
Diploma	7	High School Partnerships	103
General Studies Diploma	7	Articulation.....	104
Emergency Procedures	195	Career Link Programs and Classes	104
Fire	195	Career Readiness Council	104
General.....	195	Post Secondary Enrollment Options	104
Inclement Weather	195	Industrial Technology	90-97
Reporting	195	Automotive Service Technology	91
Safety Awareness.....	196	Building Trades.....	92
Tornado.....	195	Climate Control Technology (HVAC)	93
Experiential Learning.....	16	Electromechanical Systems Technology	94
Facilities/Services	7	General Machinist	95
Agriculture Technology Lab	7	Industrial Technology.....	96
Athletic/Recreational Fields.....	7	Tool and Die Technology	95
Career and Internship Center.....	7	Welding.....	97
Conference Center	7	Institutional Purposes.....	4

Instructional Resources	15	Athletics.....	235
Experiential Learning.....	16	Business	228
Learning Support Division	16	Business Office.....	233
Library.....	16	Career and Internship Center.....	237
Student Learning Center	17	Communication.....	229
Technology Services	17	Continuing Education	231
International Students	12	Counseling/Academic Advising	235
Learning Support Division	16	Dining Services	233
Library	16	Economic Development	237
Location and History.....	4	Facilities Management	233
Mission of the College	4	Financial Aid	236
Nondiscrimination Policy	9	Health	229
Office Hours.....	9	Housing	236
On-Campus Housing.....	209	Humanities and Social Science.....	230
Online Courses Leading to an Associate Degree.....	131	Human Resources.....	233
PSEO.....	104	Industrial	230
Public Service.....	100–101	Institutional Advancement	234
Criminal Justice	100	John Pappajohn Entrepreneurial Center.....	234
Fire Science	100	Learning Support.....	232
Regional Health	86–87	Marketing and Community Relations	234
A.A.S. Paramedic	86	Mathematics	231
Activity Coordinator	87	Natural Science	231
Medication Aide	87	President	228
Nurse Aide.....	87	Promise Jobs.....	237
Supervising in Healthcare	87	Registration	236
Registration and Records.....	210	School Partnerships	232
Academic Transcript.....	210	Small Business Development Center.....	234
Changes in Registration	210	Student Services	235
Classification of Students.....	210	Student Support Services.....	235
Credits and Grading	210	Technology Services	236
Credit by Examinations	212	Vocational Rehabilitation	236
Degree Requirements	212	Workforce Development Partnership	237
Graduation.....	216	Workforce Investment Act	237
Honors Program	211	Student Handbook	181–225
Payment Plans/Policies.....	217	Student Learning Center	17
Registration Process	217	Student Senate	222
Residency Policy Guidelines	218	Table of Contents	2
The Family Educational Rights and Protection Act (FERPA).....	214	Technology Policy.....	190
Title IV Financial Aid Recipients Refund and Repayment Policy.....	218	Technology Services.....	17
Tuition and Fees.....	220	E-Mail/Internet	17
Tuition Refund	220	Iowa Communications Network (ICN)	17
School Partnerships	103	Online Instruction and Support.....	17
Articulation.....	104		
Career Link Programs and Classes	104		
Career Readiness Council	104		
Post Secondary Enrollment Options (PSEO).....	104		
Staff.....	227–237		
Academic Affairs.....	228		
Administrative Services	233		
Admissions	235		
Agricultural Technology	228		

North Iowa Area Community College Campus

