

GENERAL CATALOG

AND STUDENT HANDBOOK



2011 - 2012

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

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



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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

John Heilskov, CPA, Hampton, Board President, 2002-2011

Toni Noah, Retired, Charles City, Board Vice President, 2006-2013

Jean Torgeson, Certified Legal Nurse Consultant, Manly, Past Board President, 2001-2011

David Steffens, Jr., President, Norsemen Trucking, Inc., Lake Mills, 2000-2013

Karen Knudtson, Realtor, Mason City, 1989-2011

Dean Cataldo, Retired, Garner, 2003-2011

Gordon Anderson, Retired, Osage, 2004-2013

Jim Niemants, Investment Representative, Clear Lake, 2005-2013

Robert Davis, Retired, Mason City, 2007-2011

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.

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

6 GENERAL INFORMATION

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 ETS - Proficiency 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 130-131 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 ETS - Proficiency 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 ETS - Proficiency 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, 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 Pierce Administration Building, Room 106A, 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 214.

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.

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.

Recreation Center

The College opened the Recreation Center during the fall semester of 2008. The facility is just over 41,000 square feet and houses numerous wellness spaces and equipment for students, staff and faculty:

- A suspended walk/jog track
- A state-of-the-art athletic training room
- Two volleyball/basketball/tennis courts
- Athletic Department offices
- Locker rooms for men and women
- Two golf/baseball/softball hitting cages
- Wrestling room
- Intramural/Recreation Office

North Iowa Area Community College recognizes the value of development of both mind and body. The Recreation Center, along with classes and extracurricular activities, enhances the overall experience for our NIACC community.

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 or small group 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. To schedule a CLEP exam, call 641-422-4326.

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

Student Union

The Student Union is a place for student clubs and organizations to meet and host social events and meetings. It is also the location of the office of the Director of Student Housing. Its use must be reserved in advance, and outside groups may rent the space as well.

Tobacco-Free Campus

Because the College wishes to provide a safe and healthy environment for students and staff members, and in accordance with state law, 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. - 6:00 p.m. and Friday, 7:00 a.m. - 4:15 p.m.

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.

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.

Health & Wellness

A wide range of health-related offerings are provided. Activities for the health professional focus on courses that meet licensing/relicensing requirements for various boards. Courses for the general public are also available. For the convenience of the student, a mix of traditional, online, and hybrid course delivery methods are used.

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.

Lifelong Learning Institute

NIACC offers the opportunity for adults to become a member of the Lifelong Learning Institute, a community of adults of all ages who learn for the joy of learning without grades, tests, papers or long-term classes. The Lifelong Learning Institute serves people of all

educational backgrounds and provides the perfect way to expand knowledge while meeting other like-minded adults. The focus of the Lifelong Learning Institute is on fun, friendship and college-level learning. Members can take advantage of short courses, lectures and discussions, study circles, social events, civic engagement opportunities and more. Topics for the courses are based on member requests and interests. Class length varies from one session to 12 weeks of class depending on the course content and instructor. A \$99 annual membership fee provides members with a variety of membership benefits. There is no additional tuition for Lifelong Learning Institute courses, lectures and study circles.

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).

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 in interactive television classrooms and take courses without leaving town.

Retired Senior Volunteer Program

The Retired Senior Volunteer Program (RSVP) of North Central Iowa is part of a national network of programs called Senior Corps that recruits adults 55 and older to use their skills, talents, and life experience to help meet community needs through volunteer service. Volunteers work with students in elementary and middle schools throughout a four-county area. Partnerships are based on established criteria, which indicate unmet community needs that could be met by the skills, wisdom, and time of RSVP volunteers. RSVP of North Central Iowa focuses on helping children and youth achieve their full potential through assistance with literacy and mentoring. RSVP serves the counties of Cerro Gordo, Hancock, Winnebago, and Worth. NIACC became the sponsor agency of RSVP of North Central Iowa in June 2009.

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.

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.

10 GENERAL INFORMATION

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

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

Foundation books and records are audited annually.

NONDISCRIMINATION POLICY

North Iowa Area Community College is committed to the policy that all persons shall have access to its programs, facilities, and employment without discrimination based upon race, religion, color, creed, gender, gender identity, sexual orientation, pregnancy, genetic information, national origin, marital status, age, or physical or mental disability. Any person having concerns with respect to rights under Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1972, and the Americans with Disabilities Act of 1990, please contact Dr. Terri Ewers, Dean of Student Development, in the Pierce Administration Building, Student Development Office, Room 104B, telephone 641-422-4106.

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 4, 2011

December 2, 2011

February 3, 2012

March 2, 2012

April 6, 2012

- **Saturday Visits**

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

January 28, 2012

February 18, 2012

March 24, 2012

April 21, 2012

For more information, call 641-422-4245 or 1-888-466-4222, Extension 4245, or visit our website 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, you will not encounter any problems in being admitted, but you 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 fill out an on-line application at www.niacc.edu.

1. Carefully complete the NIACC Application for Admission. Note that your social security number and intended major are required on the application. Once you are accepted, you will receive a student identification number. This ID number will be on your acceptance letter.
2. Submit your high school transcript. Upon graduation, you should submit a final transcript. If you obtained your GED, please forward your scores in place of a high school transcript. (If you do not have your high school diploma or equivalent, contact the College to find out how we can help you earn one or go to the following website for more information: <http://www.niacc.edu/learningsupport/ged.html>. 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 your skills and abilities is required as part of the registration process. You may either submit your American College Test (ACT) scores, Scholastic Aptitude Test (SAT) scores, or a Compass Assessment. Compass Assessment is offered free to students who will be enrolling at NIACC. Contact the Admissions Office for assessment times.

4. If you have earned credits at another college, have your transcript(s) forwarded to NIACC.

Note: Students applying for the Associate Degree Nursing, Practical Nursing, LPN to ADN, or Physical Therapist Assistant Programs need to review the NIACC catalog for additional program requirements: www.niacc.edu/catalog/.

High school students may enroll in Career Link college credit classes provided their high school has knowledge of this concurrent enrollment. Students who desire college classes should meet with their high school counselor first and then complete the course registration forms for NIACC. Postsecondary Enrollment Options (PSEO) classes are another option for 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 80 on the Internet-based 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, or visit our website at www.niacc.edu/admission/international.html.

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 once you receive your registration letter. 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 School Students

If the only term you plan to enroll in is the summer term, you will need to check our website: www.niacc.edu/summer for registration information and instructions.

Orientation

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

College Essentials

All first-time, full-time students and transfer students with less than 12 hours of credit are required to register for SDV-199, College Essentials. 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

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

- College Level Examination Program (CLEP)
 - To schedule a CLEP exam, call 641-422-4326.
- Test Proctoring
 - For students needing testing accommodations, these are arranged through the special populations counselor.
- 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 GED Chief Examiner.

Adult Literacy

Adult literacy serves the literacy needs of adults who are not otherwise enrolled in school. We provide accessible, quality instruction with open entrance/open exit classes that develop life, work and literacy skills. Benefits include the opportunity for higher learning, better pay and job potential, and a sense of accomplishment. Programs include Adult Basic Education (ABE), English as a Second Language (ESL), General Education Development (GED), and GED-i (internet).

Adult Basic Education (ABE)

Adult Basic Education (ABE) is for students who want to brush up on their literacy skills, from math to reading. Students are usually below a 9th grade reading level. Students take an assessment to determine their present literacy level. Instruction is provided on an individual basis dependent on student needs.

English as a Second Language (ESL)

English as a Second Language (ESL) classes are student centered and communication based. Oral communication for life situations is the foremost goal followed by correct grammar, spelling, and pronunciation. Curriculum is designed to be flexible and based on individual needs. Students work independently and interactively in pairs and small groups.

General Education Development (GED)

General Education Development (GED) teaches skills and knowledge equivalent to a high school course of study in Mathematics,



Reading, Writing, Science, and Social Studies. Instructors assist persons with their individual needs and classes are tailored to what students want and need to know to pass their GED tests. Scholarships are eligible for GED candidates enrolling at NIACC each semester.

General Education Development Online (GED-i)

General Education Development Online (GED-i) offers a blended approach to prepare students who cannot regularly attend a GED classroom. Students take assessments and tests at their local GED class site while instruction is online with the GED-i instructor.

GED Testing Site: NIACC Campus--Beem Center Room 103. Requirements of GED testing procedures/policies clarified by the GED Chief Examiner.

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; (4) have a clear direction or desire for designing their own educational program, or want opportunities for life or career development or change.

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. Credits earned are pass/no pass. Tuition is the same as for other degree credits. Enrollment with approval of Director of Learning Support.

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. An online library handbook is available. A student ID card is required to check out materials. ID cards are available in the Student Development Office.



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 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 or small group appointments for professional 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 at no charge.
5. Study in a comfortable, helpful 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, online course support, and telecommunications. Technology Services staff members set up and maintain the computers in the computer labs, data networks, Internet, and computer applications. In addition, staff members support classroom presentation equipment such as overhead projectors, video projectors, large screen computer displays, and interactive television classrooms (ICN). Other production services include overhead transparencies, electronic publishing, video production and 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

FAMILY AND HUMAN SERVICES

HEALTH

INDUSTRIAL TECHNOLOGY

PUBLIC SERVICE

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**

A smaller, dark gray sphere with a gradient and a bright highlight at the top, centered in the middle of the page. It is surrounded by four quadrants of different shades of gray, each containing text. The sphere has the text "Agriculture Program Clusters" on it.

**Agriculture
Program Clusters**

**Agricultural Sales
and Service**

**Agricultural Marketing
and Finance**

Agriculture Transfer

Agriculture Technology Diploma

Agricultural Technology Division

Joshua Byrnes, Agriculture and Industrial Division Chair, 641-422-4202, byrnejos@niacc.edu
Kevin Muhlenbruch, 641-422-4291, muhlekev@niacc.edu



The Agriculture Technology Diploma program is designed to provide students with the skills, aptitudes, and knowledge necessary to enter fields related to general agriculture. The program may be completed in two semesters by following the suggested curriculum, or it may be spread over three or more semesters.

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

Joshua Byrnes, Agriculture and Industrial Division Chair, 641-422-4202, byrnejos@niacc.edu
Kevin Muhlenbruch, 641-422-4291, muhlekev@niacc.edu

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. |
| AGC-190 | Skills and Safety in Agriculture | 1 s.h. |
| AGS-109 | Animal Science I | 3 s.h. |
| AGS-110 | Animal Science I Lab | 1 s.h. |
| BIO-196 | Introduction to Bio-Technology | 4 s.h. |
| BUS-161 | Human Relations | 3 s.h. |
| ENG-102 | Composition & Speech I | 4 s.h. |
| | | 19 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. |
| MAT-770 | Applied Math | 2 s.h. |
| MAT-771 | Applied Math II | 2 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. |
| AGC-314 | Leadership in Agriculture | 2 s.h. |
| SDV-210 | Cooperative Education Internship | 4 s.h. |
| | Approved Ag Elective(s) | 6 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 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-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

Joshua Byrnes, Agriculture and Industrial Division Chair, 641-422-4202, byrnejos@niacc.edu
Kevin Muhlenbruch, 641-422-4291, muhlekev@niacc.edu

The Sales and Service curriculum is designed to prepare students to work in the agricultural supply and service industry. It provides a sound academic foundation with emphasis on sales/merchandising, economics, business management, information management, precision agriculture, agronomy, animal science, human relations, and general education. Two eight-week internship experiences are required. Upon successful completion of the curriculum with a grade point average of 2.00 (C) or above, 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. |
| AGC-190 | Skills and Safety in Agriculture | 1 s.h. |
| AGS-109 | Animal Science I | 3 s.h. |
| AGS-110 | Animal Science I Lab | 1 s.h. |
| BIO-196 | Intro to Bio-Technology | 4 s.h. |
| BUS-161 | Human Relations | 3 s.h. |
| ENG-102 | Composition & Speech I | 4 s.h. |
| | | 19 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. |
| MAT-770 | Applied Math | 2 s.h. |
| MAT-771 | Applied Math II | 2 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. |
| AGC-314 | Leadership in Agriculture | 2 s.h. |
| SDV-210 | Cooperative Education Internship | 4 s.h. |
| | Approved Ag Elective(s)..... | 6 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 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-213 | Ag Real Estate Evaluation | 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-317 | Animal Nutrition | 2 s.h. |
| AGS-506 | Swine Production | 2 s.h. |

Agricultural Marketing and Finance

Agricultural Technology Division

Joshua Byrnes, Agriculture and Industrial Division Chair, 641-422-4202, byrnejos@niacc.edu
Kevin Muhlenbruch, 641-422-4291, muhlekev@niacc.edu

The Marketing and Finance curriculum is designed to prepare students to work in the agricultural service industry. It provides a sound academic foundation with emphasis on business management, economics, information management, sales and marketing, precision agriculture, farm production, human relations, communication, and general education. An eight-week internship experience is required. Upon successful completion of the curriculum with a grade point average of 2.00 (C) or above, 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 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. |
| AGC-190 | Skills and Safety in Agriculture | 1 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. |
| | | 19 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. |
| AGC-314 | Leadership in Agriculture | 2 s.h. |
| BUS-185 | Business Law I..... | 3 s.h. |
| ECN-130 | Principles of Microeconomics | 3 s.h. |
| | Approved Ag Elective(s)..... | 2 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 **73 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. |

Transfer Degree

Business Division

Career Programs

Career Option Programs

Accounting/Computing

- Accounting-Associate in Applied Science
- Accounting with Computers
- Accounting Certificate

Information Technology

- Information Systems Technology
- Information Technology Certificate
- Graphic Media Design

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
- Software Applications Skills Certificate

BUSINESS

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ACCOUNTING/COMPUTING

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Accounting with Computers - page 30

Accounting Certificate - page 31

INFORMATION TECHNOLOGY

Information Technology Certificate - page 33

Information Systems Technology Specializations:

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PC Technician (Hardware) - page 36

Software and Video Game Testing - page 37

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Computer Science Transfer Track - page 41

Management Information Systems Transfer Track - page 41

MARKETING/MANAGEMENT

Banking, Insurance, and Financial Management - page 44

Entrepreneurship and Small Business Management - page 42

The Pappajohn Entrepreneurial Certificate - page 43

General Business - page 45

Hospitality/Food Service Management - page 46

Marketing and Sales - page 47

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PROFESSIONAL ADMINISTRATIVE SERVICES

Administrative Office Associate - page 50

Administrative Office Specialist - page 51

Legal Office Associate - page 52

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Medical Coding - page 54

Medical Office Associate - page 55

Medical Office Specialist - page 56

Medical Transcription - page 57

Software Applications Specialist Certificate - page 57

Software Applications Skills Certificate - page 58

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 208-210 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 Information Technology and Marketing/Management (see pages 208-210 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 Applied Science Degree

Opportunities await graduates of NIACC's Associate in Applied Science 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. 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 Applied Science Degree. Students who have completed the Accounting with Computers Diploma Program may apply semester hours earned from that program toward an Associate in Applied Science 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.A.S. 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 | Comprehensive 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. |
| ACC-135 | Personal Income Tax..... | 3 s.h. |
| | | 15 s.h. |

Fourth Term

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

Total Program Hours 60-62 s.h.

Business Electives

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

For additional Business electives, see pages 130-131.

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 Applied Science 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: Keyboarding skill of 30 wpm with 3 errors or less is recommended.

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 | Comprehensive Spreadsheets..... | 3 s.h. |
| BUS-107 | Business Careers..... | 1 s.h. |
| ACC-135 | Personal Income Tax..... | 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



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 or an Associate in Applied Science Degree.

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. |

Business Internships

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

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

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



Career Opportunities

Students 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



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:

- Business Technology (page 34)
- Network Administration and Security (page 35)
- PC Technician (Hardware) (page 36)
- Software and Video Game Testing (page 37)

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.

Graphic Design

Graphic Design 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 design and layout as well as specialized education in one of the following programmatic options:

- Graphic Media Design (page 39)
- Foundational courses for transfer to four-year institution (page 39)

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

Entrance Advising for all Information Technology and Graphic Design Programs

Due to the highly technical nature of the computer programs and NIACC's commitment to giving students the best possible opportunity for success, students are highly encouraged to meet with the counselor prior to program enrollment to arrange for assessment. Assessments should include keyboarding, reading, writing, and math to determine if additional course work is required to promote success.

Information Technology Certificate

Short on time? Looking for a promotion? Need to brush up on your technology skills?

North Iowa Area Community College offers a flexible technology certificate that provides you with hands-on experience in your areas of interest. The Foundations of Technology Certificate is designed to give you foundational skills to help you get ahead in your job or help you get started in a new career path. And, if you choose to further your education at a later date, all of your certificate classes transfer into a two-year degree in the Information Technology programs here at NIACC.

Foundations of Technology Certificate

Students pick one from each category and one additional Information Technology course of their choice:

Basic Computer Hardware

| | | |
|---------|---------------------------------------|--------|
| NET-112 | Home/Office Computer Management | 3 s.h. |
| NET-113 | IT Essentials I..... | 4 s.h. |

Web Page Design

| | | |
|---------|-------------------------------------|--------|
| BCA-185 | Beginning Web Page Development..... | 3 s.h. |
| CIS-210 | Web Development I..... | 3 s.h. |

Networking

| | | |
|---------|-------------------------------------|--------|
| NET-117 | Home/Office Network Management..... | 3 s.h. |
| NET-213 | CISCO Networking..... | 4 s.h. |

Elective

Students pick one additional IT course of their choice3-4 s.h.

Total Hours12-15 s.h.

(Course substitutions may be made with permission of the IT Program Leader.)



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.

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. |
| | OR NET-113, IT Essentials I (4 s.h.) | |
| | Information Technology Elective(s)** | 3 s.h. |
| | Humanities/Social Science Elective | 3 s.h. |
| | | 16-17 s.h. |

Second Term

| | | |
|---------|--|---------|
| 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)** | 6 s.h. |
| | Humanities/Social Science Elective | 3 s.h. |
| | | 16 s.h. |

Second Year

Third Term

| | | |
|---------|--|------------|
| NET-117 | Home/Office Network Management | 3 s.h. |
| | OR NET-213, CISCO Networking (4 s.h.) | |
| | Information Technology Elective(s)** | 2 s.h. |
| | Business Elective | 3 s.h. |
| | Humanities/Social Science Elective | 3 s.h. |
| | Natural Science/Mathematics Elective | 3 s.h. |
| | | 14-15 s.h. |

Fourth Term

| | | |
|---------|--|------------|
| GRA-299 | Electronic Portfolio | 3 s.h. |
| | Information Technology Elective(s)** | 3 s.h. |
| | Business Elective(s) | 9 s.h. |
| | | 15 s.h. |
| | Total Program Hours | 61-63 s.h. |

Career Opportunities

Support staff in Accounting, Help Desk, 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-135 | Personal Income Tax | 3 s.h. |
| ADM-145 | Advanced Desktop | 3 s.h. |
| 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. |
| BUS-102 | Introduction to Business | 3 s.h. |
| BUS-107 | Business Careers | 1 s.h. |
| BUS-161 | Human Relations | 3 s.h. |
| BUS-225 | Business Internships^ | 1-5 s.h. |
| MGT-101 | Principles of Management | 3 s.h. |
| MKT-110 | Principles of Marketing | 3 s.h. |
| MKT-140 | Principles of Selling | 3 s.h. |
| MKT-150 | Principles of Advertising | 3 s.h. |

*Prerequisites: BCA-215 Computer Business Applications and BCA-129 Basic Word Processing

^Prerequisite BUS-107 Business Careers

Electives may be from all Business courses in the catalog in any combination if prerequisites are met or instructor permission is obtained, AND minimum degree requirements are met.

**Recommended Information Technology Elective Courses:

| | | |
|---------|--|--------|
| BCA-103 | Management Information Systems | 3 s.h. |
| CIS-125 | Intro to Programming Logic With Language | 3 s.h. |
| CIS-232 | Web Development II | 1 s.h. |
| GRA-108 | Visual Communication | 3 s.h. |
| GRA-151 | Web Design | 3 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, AND minimum degree requirements are met.

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 and Security Specialization

The Network Administration and Security Specialization prepares students to install, configure, operate, and troubleshoot medium-sized routed and switched networks, along with workstation installation, management of servers, and general maintenance of all devices on a network. This network professional demonstrates the skills required to develop a security infrastructure, recognize threats and vulnerabilities to networks, and mitigate security threats.

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

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

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 and Security Specialist
- LAN or WAN Administrator
- 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)

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

Second Year

Fourth Term (Fall Semester)

| | | |
|---------|--|---------|
| NET-201 | Network LANs and WANs..... | 5 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. |
| | | 15 s.h. |

Fifth Term (Spring Semester)

Network Administration Concentration

| | | |
|---------|--|---------|
| GRA-299 | Electronic Portfolio..... | 3 s.h. |
| NET-635 | Ethical Hacking..... | 3 s.h. |
| NET-215 | CISCO Network Security..... | 4 s.h. |
| NET-324 | Windows Network Management..... | 4 s.h. |
| | Humanities/Social Science Elective(s)..... | 3 s.h. |
| | | 17 s.h. |

Total Program Hours 69 s.h.

Optional:

| | | |
|---------|--|--------|
| NET-136 | Operating Systems II..... | 3 s.h. |
| | OR CFR-100 Computer Forensics I (3 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 +

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-215 | Computer Business Applications | 3 s.h. |
| BUS-107 | Business Careers* | 1 s.h. |
| CIS-210 | Web Development I..... | 3 s.h. |
| | OR BCA-185 Beginning Web Page Development (3 s.h.) | |
| NET-113 | IT Essentials I* | 4 s.h. |
| | Humanities/Social Science Elective(s)..... | 3 s.h. |
| | | 14 s.h. |

Second Term (Spring Semester)

| | | |
|---------|--|---------|
| NET-117 | Home/Office Network Management..... | 3 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. |
| | | 15 s.h. |

Third Term (Summer)

| | | |
|---------|--|--------|
| ENG-102 | Composition & Speech I | 4 s.h. |
| | Humanities/Social Science Elective(s)..... | 3 s.h. |
| | | 7 s.h. |

Second Year

Fourth Term (Fall Semester)

| | | |
|---------|---|---------|
| NET-314 | Windows Server | 4 s.h. |
| NET-613 | Information Data Assurance..... | 3 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-159 | Internet Law, Copyright and Computer Ethics | 1 s.h. |
| CFR-100 | Computer Forensics I..... | 3 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. |
| | | 14 s.h. |

Total Program Hours 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.

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.

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

Upon completion of the second year 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)

| | | |
|---------|--|---------|
| CIS-125 | Intro to Programming Logic with Language..... | 3 s.h. |
| CIS-155 | Intro to Video Game Testing | 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. |
| | 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-246 | Intermediate Testing Concepts..... | 4 s.h. |
| CIS-332 | Database and SQL..... | 3 s.h. |
| CIS-620 | Bot Programming for Game and Application Automation in Windows..... | 1 s.h. |
| | | 16 s.h. |

Third Term (Summer Semester)

| | | |
|---------|--------------------------------|--------|
| CIS-275 | Advanced Testing Concepts..... | 2 s.h. |
| | | 2 s.h. |

Second Year

Fourth Term (Fall Semester)

| | | |
|---------|--|---------|
| MAT-110 | Math for Liberal Arts..... | 3 s.h. |
| NET-113 | IT Essentials I..... | 4 s.h. |
| NET-213 | CISCO Networking..... | 4 s.h. |
| | Business Elective(s)..... | 3 s.h. |
| | Humanities/Social Science Elective(s)..... | 3 s.h. |
| | | 17 s.h. |

Fifth Term (Spring Semester)

| | | |
|---------|--|---------|
| ENG-103 | Composition & Speech II | 4 s.h. |
| GRA-299 | Electronic Portfolio | 3 s.h. |
| NET-743 | Fundamental Project Management..... | 4 s.h. |
| | Business Elective(s)..... | 3 s.h. |
| | Humanities/Social Science Elective(s)..... | 3 s.h. |
| | | 17 s.h. |
| | Total Program Hours..... | 68 s.h. |

Graphic Design

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 tracks in Graphic Design. Graphic Media Design is a two-year program that prepares designers to get out in the real world quickly and find employment. (The courses you need for the Graphic Media Design degree are spelled out on the next page.) If you are thinking you might want to ultimately earn a four-year degree in art and design, take a look at the Graphic Design Transfer Track degree.

Graphic Media Design

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

- Graphic Designers
- Production Artists
- Screenprinters
- Ad Designers
- Website Developers
- Multimedia Designers
- Web Consultants
- Printers

This degree also provides 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.

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

Graphic Design Transfer Track

Designed to make transfer to a four-year school easy and inexpensive, the Associate of Arts degree satisfies all requirements for General Education. The Associate of Arts degree also builds a strong foundation in art and design for transfer into a four-year design program.

- Graphic Design Transfer Track
(Contact the Student Development Office to see a sample schedule for transfer to four-year colleges)



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.

Graphic Media Design

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. |
| CIS-210 | Web Development I | 3 s.h. |
| ENG-102 | Composition & Speech I | 4 s.h. |
| GRA-140 | Digital Imaging | 3 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. |
| BUS-159 | Internet Law, Copyright, and Computer Ethics | 1 s.h. |
| GRA-108 | Visual Communication | 3 s.h. |
| NET-112 | Home/Office Computer Management | 3 s.h. |
| | OR NET-117 Home/Office Network Management | 3 s.h. |
| | Two Application Courses (from the list at right)* | 2 s.h. |
| | | 15 s.h. |

Third Term (Summer Semester)

| | |
|---|--------|
| Three Application Courses (from the list at right)* | 3 s.h. |
| | 3 s.h. |

Second Year

Fourth Term (Fall Semester)

| | | |
|---------|--|---------|
| GRA-123 | Principles of Illustration | 3 s.h. |
| GRA-158 | Web Multimedia | 3 s.h. |
| GRA-166 | Web Animation | 3 s.h. |
| GRA-173 | Typography | 3 s.h. |
| | Graphic Media Design Elective(s) (from the list at right)* | 3 s.h. |
| | | 15 s.h. |

Fifth Term (Spring Semester)

| | | |
|---------|--|---------|
| ART-131 | Digital Publication Design | 3 s.h. |
| ENG-103 | Composition & Speech II | 4 s.h. |
| GRA-194 | Design Studio Applications | 3 s.h. |
| GRA-299 | Electronic Portfolio | 3 s.h. |
| | Math/Natural Science Elective(s) | 3 s.h. |
| | | 16 s.h. |

Total Program Hours 65 s.h.



*Application Courses

| | | |
|---------|--|--------|
| BCA-729 | Search Engine Optimization | 1 s.h. |
| BCA-775 | JavaScript Programming for the Web | 1 s.h. |
| BCA-778 | AJAX Basics | 1 s.h. |
| CIS-232 | Web Development II | 1 s.h. |
| GRA-761 | Dreamweaver Basics | 1 s.h. |
| GRA-762 | Flash Basics | 1 s.h. |
| GRA-763 | Fireworks Basics | 1 s.h. |
| GRA-764 | Illustrator Basics | 1 s.h. |
| GRA-765 | InDesign Basics | 1 s.h. |
| GRA-766 | Photoshop Basics | 1 s.h. |

The Application Courses listed above are all open entry/open exit. That means you can sign up for these classes at any time and start and end them around your schedule.

Graphic Media Design Electives

| | | |
|---------|---|--------|
| ART-116 | Graphic Design II | 3 s.h. |
| CIS-125 | Introduction to Programming Logic with Language | 3 s.h. |

Students are expected to complete a set of courses from the above list. It is the student's choice as to which courses to take, but students are encouraged to take the courses that will best fit their individual needs and post-graduation plans.

So you want to become a graphic designer, maybe a production artist or ad designer? The best electives for careers like these might include:

- ART-116 Graphic Design II
- GRA-761 Dreamweaver Basics
- GRA-762 Flash Basics
- GRA-763 Fireworks Basics
- GRA-764 Illustrator Basics
- GRA-765 InDesign Basics
- GRA-766 Photoshop Basics

Or maybe you are looking to focus on the Web. If so, try these electives:

- BCA-729 Search Engine Optimization
- BCA-775 JavaScript Programming for the Web
- BCA-778 AJAX Basics
- CIS-125 Introduction to Programming Logic with Language
- GRA-761 Dreamweaver Basics
- GRA-763 Fireworks Basics
- GRA-766 Photoshop Basics

Want to know a secret? To be the most employable, take a variety of courses and create a wider base of knowledge. Many businesses are looking for people that can do more than one thing.

Career Opportunities

- Graphic Designer
- Production Artist
- Screenprinter
- Ad Designer
- Website Developer
- Multimedia Designer
- Web Consultant
- Printer



NIACC

INFORMATION TECHNOLOGY
COURSES

NIACC Information Technology

Think, Create, Explore....

- Build a Computer
- Create Animations
- Start an Internet company
- Write computer programs
- Test Video Games
- Design a Magazine
- Network an International Company
- Create Web pages



NIACC First

**Then tackle
the
world!**

Computer Science Transfer Track

Computer scientists work as theorists, researchers, or inventors. The areas of computer science research range from complex theory to hardware design to programming-language design. Some researchers work on multidisciplinary projects, such as developing and advancing uses of virtual reality, extending human-computer interaction, or designing robots. They may work on design teams with electrical engineers and other specialists.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

| | | |
|---------|---|---------|
| CIS-125 | Introduction to Programming Logic with Language | 3 s.h. |
| ENG-102 | Composition and Speech I..... | 4 s.h. |
| MAT-156 | Introduction to Statistics..... | 3 s.h. |
| SDV-199 | College Essentials..... | 1 s.h. |
| | Humanities Elective(s) | 4 s.h. |
| | | 15 s.h. |

Second Term (Spring Semester)

| | | |
|---------|----------------------------------|---------|
| CIS-119 | Introduction to Programming..... | 4 s.h. |
| CIS-332 | Database and SQL..... | 4 s.h. |
| ENG-103 | Composition and Speech II..... | 4 s.h. |
| | Humanities Elective(s) | 4 s.h. |
| | | 16 s.h. |

Second Year

Third Term (Fall Semester)

| | | |
|---------|---------------------------------|---------|
| MAT-210 | Calculus I | 4 s.h. |
| | IT Elective(s) | 4 s.h. |
| | Humanities Elective(s) | 4 s.h. |
| | Social Science Elective(s)..... | 3 s.h. |
| | | 15 s.h. |

Fourth Term (Spring Semester)

| | | |
|---------|-----------------------------------|---------|
| CIS-172 | Java..... | 4 s.h. |
| MAT-216 | Calculus II | 4 s.h. |
| | Natural Science Elective(s) | 3 s.h. |
| | Social Science Elective(s)..... | 6 s.h. |
| | | 17 s.h. |
| | Total Program Hours..... | 63 s.h. |

Career Opportunities

Students pursuing a four-year degree in Computer Science often find jobs as:

- Software Engineer/Developer
- Computer Systems Analyst
- Database Administrator
- Network Systems and Data Communications Analyst
- IT Manager

Management Information Systems Transfer Track

Management Information Systems is a general term for the computer systems in an enterprise that provide information about its business operations, supports decision making, and give an enterprise a competitive advantage and the foundation of success. Management Information Systems is the application of information technology and systems in business.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

| | | |
|---------|--|---------|
| BCA-101 | Introduction to Computers and Information Systems..... | 3 s.h. |
| BCA-103 | Management Information Systems | 3 s.h. |
| ENG-102 | Composition and Speech I..... | 4 s.h. |
| SDV-199 | College Essentials..... | 1 s.h. |
| | Humanities Elective(s) | 4 s.h. |
| | | 15 s.h. |

Second Term (Spring Semester)

| | | |
|---------|-------------------------------------|---------|
| ACC-121 | Principles of Accounting I..... | 3 s.h. |
| ENG-103 | Composition and Speech II..... | 4 s.h. |
| MAT-156 | Introduction to Statistics..... | 3 s.h. |
| | General Education Elective(s) | 3 s.h. |
| | Social Science Elective(s)..... | 3 s.h. |
| | | 16 s.h. |

Second Year

Third Term (Fall Semester)

| | | |
|---------|---|---------|
| CIS-125 | Introduction to Programming Logic with Language | 3 s.h. |
| CIS-332 | Database and SQL..... | 4 s.h. |
| | Humanities Elective(s) | 4 s.h. |
| | Social Science Elective(s)..... | 3 s.h. |
| | Math or Science Elective(s) | 3 s.h. |
| | | 17 s.h. |

Fourth Term (Spring Semester)

| | | |
|---------|-------------------------------------|---------|
| CIS-119 | Introduction to Programming..... | 4 s.h. |
| NET-743 | Fundamental Project Management..... | 4 s.h. |
| | Science Elective(s)..... | 4 s.h. |
| | Social Science Elective(s)..... | 3 s.h. |
| | General Education Elective(s) | 3 s.h. |
| | | 18 s.h. |

Total Program Hours..... 66 s.h.

Career Opportunities

Students pursuing a four-year degree in Management Information Systems often find jobs as:

- MIS Director/Specialist
- Information Manager
- Systems Analyst
- Programmer
- Consultant/Business Analyst

Entrance Advising for all Computer Science and Management Information Systems Transfer Programs

The Computer Science and Management Information Systems Transfer Tracks found in this section were developed for students planning to transfer to a four-year institution to pursue a Computer Science or Management Information Systems degree. Curriculum is recommended for each major that can be taken at NIACC.

Students should, however, check the requirements of their major with a NIACC counselor/advisor. Sample schedules may differ based on the transfer school.

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



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.

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. |
| BUS-142 | Planning the Entrepreneurial Venture..... | 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. |
| | | 16 s.h. |

Second Year

Third Term

| | | |
|-------------------|------------------------------------|---------|
| ACC-122 | Principles of Accounting II..... | 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. |
| Elective(s) | | 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-225C* Business Internships | 3 s.h. |
|--------------------------------------|--------|

Total Program Hours 61 s.h.

* Prerequisite: BUS-107 Business Careers. 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

Total17 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.

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.

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.

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.

Upon completion of the second year 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. |

*Prerequisite: 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 | Comprehensive 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 Microeconomics | 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 130-131.

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.

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. |
| | Business 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 | Comprehensive Spreadsheets..... | 3 s.h. |
| MAT-140 | Finite Math | 3 s.h. |
| MKT-110 | Principles of Marketing..... | 3 s.h. |
| | Business Elective(s)..... | 6 s.h. |
| | | 15 s.h. |

Total Program Hours 62 s.h.

Recommended Business 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. |
| BUS-107 | Business Careers..... | 1 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 130-131.

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 Statistics (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.

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-107 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 | Comprehensive 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 130-131.

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.

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.

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. |
| | Business Elective(s)..... | 2 s.h. |
| | | 15 s.h. |

Fourth Term

| | | |
|---------|--|---------|
| BCA-152 | Comprehensive 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. |
| | Business Elective(s)..... | 3 s.h. |
| | | 15 s.h. |

Total Program Hours 62 s.h.

Recommended Business Electives

| | | |
|---------|--|--------|
| ADM-131 | Office Calculators..... | 1 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 130-131.

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

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-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 | Comprehensive 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-161 | Sports Officiating..... | 3 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.

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.

Upon completion of the second year 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. |
| | Business 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 Business Electives:

| | | |
|---------|---|----------|
| ACC-135 | Personal Income Tax..... | 3 s.h. |
| BUS-107 | Business Careers..... | 1 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 130-131.

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: Keyboarding skill of 30 wpm with 3 errors or less is recommended.

Second Term

| | | |
|-----------|---------------------------------|---------|
| ADM-162** | Office Procedures | 3 s.h. |
| BCA-152* | Comprehensive 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 1-888-466-4222, Ext. 4355.*

For additional Business electives, see pages 130-131.

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 Applied Science 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: Keyboarding skill of 30 wpm with 3 errors or less is recommended.

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** | Comprehensive 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 1-888-466-4222, Ext. 4355.*

For additional Business electives, see pages 130-131.

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.

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: Keyboarding skill of 30 wpm with 3 errors or less is recommended.

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 | Comprehensive 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 1-888-466-4222, Ext. 4355.*

For additional Business electives, see pages 130-131.

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 Applied Science 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: Keyboarding skill of 30 wpm with 3 errors or less is recommended.

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*** | Comprehensive 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 1-888-466-4222, Ext. 4355.*

For additional Business electives, see pages 130-131.

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 1-888-466 4222, Ext. 4355.*

For additional Business electives, see pages 130-131.



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, or permission of instructor

** Prerequisites: BCA-129 and BUS-121

*** Prerequisite: Keyboarding skill of 30 wpm with 3 errors or less is recommended.

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 Applied Science 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: Keyboarding skill of 30 wpm with 3 errors or less is recommended.

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**** | Comprehensive 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 and HSC-120, or permission of instructor

*** 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** | Comprehensive 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.

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.

Software Applications Skills - Certificate

The Software Applications Skills - 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 10 semester hours) with an average grade point of 2.00 (C), the student is awarded a certificate.

Required Courses

| | | |
|---------|--------------------------------------|---------|
| ADM-105 | Introduction to Keyboarding | 1 s.h. |
| ADM-108 | Keyboarding Skill Development | 1 s.h. |
| BCA-100 | Computer Literacy | 1 s.h. |
| BCA-129 | Basic Word Processing | 2 s.h. |
| BCA-163 | Microsoft Access | 1 s.h. |
| BCA-174 | Basic Presentation Software | 1 s.h. |
| BCA-215 | Computer Business Applications | 3 s.h. |
| | | 10 s.h. |



Early Childhood Education

**Family
and Human
Services
Programs**

A smaller dark gray circle with a gradient is centered below the first one. Inside it, the text 'Family and Human Services Programs' is written in a bold, white, sans-serif font. To the left of this circle is the text 'Early Childhood Education' and to the right is 'Human Services', both in a bold, black, sans-serif font.

Human Services

FAMILY AND HUMAN SERVICES

Jeff Platt, Division Chair

(641)422-4186

plattjef@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. |

Suggested Electives - 12 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. |
| EDU-235 | Children's Literature | 3 s.h. |
| EDU-246 | Including Diverse Learners | 3 s.h. |
| MAT-153 | Math for Elementary Teachers I..... | 4 s.h. |
| MAT-154 | Math for Elementary Teachers II..... | 4 s.h. |
| PSY-223 | Child and Adolescent Psychology..... | 3 s.h. |
| PSY-281 | Educational Psychology..... | 3 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



Long Term Care

- Activity Coordinator
- Medication Aide
- Nurse Aide
- Supervising in Healthcare

Medical Assistant

Emergency Medical Services

- Emergency Medical Responder
- Emergency Medical Technician
- Advanced Emergency Medical Technician

Wellness, Exercise Science and Leisure Services

Health Program Clusters

Physical Therapist Assistant

Nursing

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

Radiologic Technology

Health Related Options

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

HEALTH

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HEALTH RELATED OPTIONS

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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.

- Radiologic Technology is a program provided in cooperation with Mercy Medical Center-North Iowa. General education requirements obtained at NIACC provide the necessary complement for students enrolled at MMC-NI to allow attainment of an Associate in Applied Science Degree.

- Wellness, Exercise Science and Leisure Services courses offer opportunities in a variety of careers that allow for direct employment or transfer options for students desiring advanced degrees in professions associated with health, wellness, physical education, exercise science, strength training, leisure services, and recreation.

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

Emergency Medical Services

Emergency Medical Responder

Emergency Medical Responder is the first course in the Emergency Medical Services (EMS) Program. Content includes theory and skills to prepare students to provide assessment, emergency care, and stabilization of a patient with medical, trauma, or cardiac issues prior to the arrival of an ambulance. The Emergency Medical Responder will be trained in areas such as childbirth, allergic reactions, splinting, and mass casualty incidents. Students receive classroom lecture and hands-on skills practice in preparation for the National Registry exam.

Entrance Requirements for EMR:

1. Be at least 17 years of age at the time of enrollment.
2. Be proficient in writing, reading, and speaking English.
3. Hold or be eligible to obtain a current driver's license.
4. Be physically and emotionally capable of performing basic emergency care skills.
5. Provide evidence of current certification in the BLS Healthcare Provider course.

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.

Emergency Medical Technician

Emergency Medical Technicians can transport patients that are sick or injured. The Emergency Medical Technician course prepares students to transport patients in a safe manner. Course content includes scene safety recognition, patient assessment, proper lifting techniques, treatment of life-threatening emergencies, the recognition to call for advanced life support, splinting, childbirth, heat- and cold-related emergencies, respiratory emergencies, and treatment of bleeding and shock. This is a 150-hour course with lecture and a hands-on lab. Thirty hours are included in a hospital and ambulance setting. Students must maintain an 80 percent overall average to be eligible to test for the EMS certification exam offered by the National Registry.

Entrance Requirements for EMT:

1. Be at least 17 years of age at the time of enrollment.
2. Be proficient in writing, reading, and speaking English.
3. Hold or be eligible to obtain a current driver's license.
4. Be physically and emotionally capable of performing basic emergency care skills.
5. Maturity of judgment, sound moral character and good health status is necessary to provide reasonable assurance that the student will meet the physical and mental demands of the occupation.
6. Provide evidence of current certification in the BLS Healthcare Provider course.
7. Physical examination is required prior to beginning hospital and ambulance-riding clinical.
8. Proof of immunizations and hepatitis B vaccine or waiver is required.

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.

Advanced Emergency Medical Technician

Advanced Emergency Medical Technician is the level of emergency care that is a combination of the EMT-Intermediate and the State of Iowa Paramedic certification which will be discontinued July 31, 2011. The course will begin August 1, 2011. Content consists of additional skills in intravenous administration and maintenance, intraosseous administration (IO), medicine administration of certain drugs administered intravenously, orally, sublingually, inhaled, intramuscularly, and subcutaneously. This course teaches advanced emergency care up to their scope of practice. The course contains 113 hours of lecture and hands-on lab, with 100 hours of clinical experience in the hospital and ambulance setting. Students must maintain an 80 percent overall average to be eligible to test for the Advanced EMT certification by the National Registry.

Entrance Requirements for Advanced EMT:

1. Be at least 17 years of age at the time of enrollment.
2. Be proficient in writing, reading and speaking English.
3. Hold or be eligible to obtain a current driver's license.
4. Be physically and emotionally capable of performing basic emergency care skills.
5. Maturity of judgment, sound moral character and good health status is necessary to provide reasonable assurance that the student will meet the physical and mental demands of the occupation.
6. Provide evidence of current certification in the BLS Healthcare Provider course.
7. Provide evidence of successful completion of certified State of Iowa or nationally certified EMT or EMT-Basic.
8. Physical examination is required prior to beginning hospital and ambulance-riding clinical.
9. Proof of immunizations and hepatitis B vaccine or waiver is required.

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.

Long Term Care

Nurse Aide

The Nurse Aide course prepares individuals to work in long-term care facilities (LTC) and hospitals. For acceptance into ADN and PNN programs, the Nurse Aide course is required.

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.
3. Strength and endurance to meet the requirements in performing skills such as lifting and moving residents.
4. Health history and 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.
5. Criminal background checks and adult/dependent and child abuse checks are required by law. Results of those checks will be used to determine clinical eligibility (a student may be denied clinical access and be unable to complete the course). Costs for background checks will be included in tuition costs.

For further information, contact the health professions counselor at 1-888-466-4222, 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. |

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. MUST BE 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; OR
- A 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 recommendation from administrator of facility in which he/she is employed; OR

- An assisted living program -- must provide recommendation from administrator of facility in which he/she is employed, strongly recommended to have completed 75-hour Nurse Aide course or Residential Attendant course.

2. Have aptitude for reading, writing, and mathematics.

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.)

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



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 Medical Assisting Education Review Board (MAERB) 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 practicum. Practicums are randomly assigned to the student and available sites are dependent on the permission of the specific agency. No remuneration is provided during the practicum 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.

Upon completion of the prescribed curriculum with a 2.00 GPA and a mini-

mum overall cumulative college grade point average of 2.00 (C), the student is awarded a diploma. 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 AAMA Certifying 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 AAMA Certifying Board at the following address: AAMA (American Association of Medical Assistants), 20 North Wacker Drive, Ste. 1575, Chicago, IL 60606-2903.



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 BIO-206, Anatomy and Physiology I (4 s.h.) | |
| | OR BIO-207, Anatomy and Physiology II (4 s.h.) | |
| 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-622 | Medical Assistant Practicum | 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 Practicum one time only.

Career Opportunities

Medical Assistant is one of the nation's fastest growing careers through 2018, 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
- Clinics

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

Medical Laboratory Technician (Academic Affiliate 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 Laboratory Scientists.

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
MLT-110 (HCC) Fundamental Lab Techniques
MLT-130 (HCC) Hematology

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 I | 3 s.h. |
| MLT-120** | Urinalysis I | 3 s.h. |
| SPC-111 | Public Speaking | 2 s.h. |
| | | 16 s.h. |

Summer Session - Hawkeye

| | | |
|-----------|----------------------------|---------|
| MLT-110** | Fundamental Lab Techniques | 3 s.h. |
| MLT-130 | Hematology | 3 s.h. |
| MLT-250 | Clinical Microbiology | 4 s.h. |
| | | 10 s.h. |

Second Year

First Term - Hawkeye

| | | |
|-----------|-------------------------|---------|
| MLT-230** | Advanced Hematology | 3 s.h. |
| MLT-260 | Immunohematology | 4 s.h. |
| MLT-233 | Hemostasis & Thrombosis | 2 s.h. |
| MLT-240 | Clinical Chemistry I | 7 s.h. |
| MLT-252** | Parasitology | 1 s.h. |
| MLT-270 | Immunology and Serology | 2 s.h. |
| | | 19 s.h. |

Second Term - Area II Clinical Sites*

(24-week term, clinical internship)

| | | |
|---------|--|---------|
| MLT-284 | Clinical Practicum: Immunohematology | 2 s.h. |
| MLT-285 | Clinical Practicum: Chemistry | 4 s.h. |
| MLT-286 | Clinical Practicum: Immunology and Serology II | 1 s.h. |
| MLT-291 | Lab Survey & Review | 1 s.h. |
| MLT-287 | Clinical Practicum: Hematology | 4 s.h. |
| MLT-288 | Clinical Practicum: Microbiology | 4 s.h. |
| MLT-283 | Clinical Practicum: 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 Development 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 December 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 website (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.
6. One point will be earned for completion with a grade of C or higher, BIO-206, Anatomy and Physiology I, and BIO-207, Anatomy and Physiology II.

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.

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.

Prerequisites

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

Mathematics:

1. Two full-year courses (2 semesters each year) of math in high school (e.g., Algebra I, Algebra II, Geometry)
OR
two semesters of 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. 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 class and clinical performance. A letter of reference regarding theory, clinical, and overall student conduct will be required from the chair of health programs at the transfer institution. 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 and assigned comprehensive review activities, 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, 3343 Peachtree Road N.E., Suite 500, Atlanta, GA 30326, (404-975-5000), www.nlnac.org.

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. A copy of the ADN Student Handbook is available on request from the Health Division and is posted on the ADN program website at <http://www.niacc.edu/health/adnurse.html>.

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 and students reentering the program. 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. |
|---------------------|---------|

* Prescribed support 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. Anatomy and Physiology I and II must be completed prior to entering ADN-103 or ADN-603.

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 Development 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 class and clinical performance. A letter of reference regarding theory, clinical, and overall student conduct will be required from the chair of health programs at the transfer institution. 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. A copy of the ADN Student Handbook is available on request from the Health Division and is posted on the ADN program website at <http://www.niacc.edu/health/adnurse.html>.

Upon satisfactory completion of the prescribed curriculum and assigned comprehensive review activities, 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, 3343 Peachtree Road N.E., Suite 500, Atlanta, GA 30326, (404-975-5000), www.nlnac.org.

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 is required. 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 Development 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 class and clinical performance. A letter of reference regarding theory, clinical, and overall student conduct will be required from the chair of health programs at the transfer institution. 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** OR Anatomy and Physiology I and II | 4 s.h. |
| 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.

* Prescribed support 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

Pharmacy Technician - Certificate

The Pharmacy Technician program is a two semester program that prepares the graduate to function as a health professional under the direct supervision of a registered pharmacist in a retail setting. Pharmacy Technicians require a broad knowledge of the practice of pharmacy and knowledge of techniques required to measure, mix, count, label and record amounts and dosages of medications. In addition, Pharmacy Technicians verify prescriptions from physicians and help maintain patient records and insurance information.

Upon completion of the preadmission math requirement and the four core courses listed below with a grade point average of 2.00 (C) or above, graduates will be awarded a certificate of completion as a Pharmacy Technician and will be eligible for the National Certification Exam offered by the Pharmacy Technician Certification Board.

Entrance Requirements

1. A high school diploma or its equivalent, or permission of the Division Chair.
2. A high school GPA of 2.0 or higher.
3. A score of 52 or higher on the Algebra component of the COMPASS test or ACT Math score of 21 or higher. If unable to achieve this score, MAT-063, Elementary Algebra, will be required simultaneously with PHR-105, Introduction to Pharmacy Technician, and prior to enrollment in PHR-941, Pharmacology for Pharmacy Technicians. MAT-063, Elementary Algebra, may also be taken prior to entering the program.
4. Computer literacy as documented by high school or college coursework.
5. Must be a minimum of 18 years of age at the time of program completion.

Upon admission to the program, criminal background checks will be required. Drug checks may also be required by certain agencies prior to the practicum experience. Criminal background checks and drug checks are at student expense.

Required Courses

First Term (Fall Semester)

| | | |
|---------|-------------------------------------|---------------------|
| HSC-120 | Medical Terminology I | 3 s.h. |
| PHR-105 | Introduction to Pharmacy Technician | 3 s.h. |
| MAT-063 | Elementary Algebra* | 4 s.h. 6-10 s.h. |

* This course must be taken if the student is unable to meet math requirements listed under Entrance Requirements.

Second Term (Spring Semester)

| | | |
|---------|---------------------------------------|------------------|
| PHR-120 | Pharmacology for Pharmacy Technicians | 3 s.h. |
| PHR-941 | Pharmacy Technician Practicum | 1 s.h. 4 s.h. |

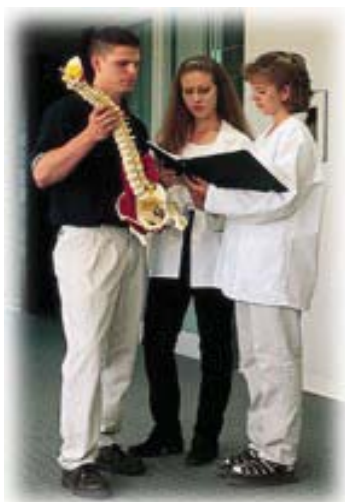
Total Hours 10-14 s.h.



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 Development 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 12 hours of observation time in a physical therapy

setting. When applicant applies to the program, a required form will need to be used to document these hours. This form is available through Student Services.

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/college 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 student in the PTA Program Student 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 weeks) | 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

72-76 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. Note that Kinesiology must be taken within three years of beginning the program. Students must earn a "C-" or higher in BIO-206, Anatomy and Physiology I, prior to taking Kinesiology.

++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 clinicals 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

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, 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 Director (641-428-6079) and the NIACC health professions counselor located in the Student Development Office. Mercy's application deadline is December 15 each year.

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**:
 - a. Biology (1 full year high school or 1 semester college)
 - b. Chemistry **OR** Physics (1 full year high school or 1 semester college).
5. Attendance at one of the information sessions held by the school (www.mercy-northiowa.com/radiologictchnologyprogram).
6. Must meet the requirements of the physical demands worksheet obtained from Mercy Medical Center - North Iowa.

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) with a minimum grade of "C" or higher.
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: 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.

For the class starting in 2013, the American Registry of Radiologic Technologists will require (by January 2, 2015) that all graduates meet the requirements for an AAS or AA degree, inclusive of the designated 19 semester hours of general education requirements and the prescribed program curriculum, in order to be eligible for the certification exam. Applicants who already have a degree should request a transcript review by the Mercy Medical Center - North Iowa Radiologic Technology faculty and the Health Professions Counselor to determine courses and degree compliance.

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)* | |
| | Radiographic Image Critique I (MMC-NI)* | |
| | Customer Service (MMC-NI)* | |
| | Radiographic Anatomy and Positioning I (MMC-NI)* | |
| | Radiographic Anatomy 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 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)* | |
| | Medical Ethics and Legal Concerns (MMC-NI)* | |
| | Radiographic Physics (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.) | |
| | Clinical IV (MMC-NI)* | |

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-575 | Clinical V (MMC-NI) | 9 s.h. |
| | | 18 s.h. |

Sixth Term (Summer)

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

Total Program Hours

82 s.h.



Career Opportunities

Radiologic Technologists work for:

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

*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.

Wellness, Exercise Science, and Leisure Services

The Wellness, Exercise Science 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 wellness, exercise science, and leisure activities for both the individual and groups.

Students interested in careers in Wellness, Exercise Science, 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 Wellness, Exercise Science, 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. |
| PSY-121 | Developmental Psychology..... | 3 s.h. |
| PSY-223 | Child and Adolescent Psychology..... | 3 s.h. |
| | Business Elective(s)..... | 3 s.h. |
| | Physical Education/Activities Electives..... | 2-4 s.h. |
| | Humanities Elective(s)..... | 8 s.h. |
| | Social Science Elective(s)..... | 3 s.h. |
| | General Education Elective(s)..... | 4-5 s.h. |
| | Additional Physical Fitness and Wellness Certificate Courses..... | 13 s.h. |

Total Degree Hours 60-63 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.

Wellness, Exercise Science, and Leisure Services - A.A.S. Degree

The A.A.S. degree option is intended to provide students with the training to enter the job market in the field of Wellness, Exercise Science, and Leisure Services. Students may select an emphasis from the following areas: Coaching, Fitness/Wellness, or Business.

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. For students choosing the Wellness, Exercise Science, and Leisure Services A.A.S. degree, Coaching Emphasis, requirements for the Coaching Authorization from the Iowa Department of Education will be met.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

| | | |
|---------|--|------------|
| ENG-102 | Composition & Speech I..... | 4 s.h. |
| PEH-111 | Personal Wellness..... | 3 s.h. |
| PEH-144 | Human Movement Science..... | 3 s.h. |
| PEH-161 | Introduction to Physical Education..... | 2 s.h. |
| PSY-121 | Developmental Psychology..... | 3 s.h. |
| | OR BIO-206, Anatomy & Physiology I (4 s.h.) | |
| | OR HSC-150, Body Structure & Function (4 s.h.) | |
| | Physical Education/Activities Elective..... | 1 s.h. |
| | | 16-17 s.h. |

Second Term (Spring Semester)

| | | |
|---------|---|---------|
| BUS-107 | Business Careers..... | 1 s.h. |
| ENG-103 | Composition & Speech II..... | 4 s.h. |
| PEH-140 | First Aid..... | 1 s.h. |
| PEH-221 | Introduction to Leisure Services..... | 3 s.h. |
| PEH-261 | Physical Activity for Health and Fitness..... | 3 s.h. |
| | Physical Education/Activities Elective..... | 1 s.h. |
| | Recommended Elective(s)..... | 3 s.h. |
| | | 16 s.h. |

Second Year

Third Term (Fall Semester)

| | | |
|---------|---|------------|
| BIO-151 | Nutrition..... | 3 s.h. |
| PEC-127 | Care and Prevention of Athletic Injuries..... | 2 s.h. |
| PEH-908 | WESLS Cooperative Education Internship..... | 1 s.h. |
| | General Education Elective(s)..... | 3 s.h. |
| | Emphasis Area Courses..... | 5-8 s.h. |
| | | 14-17 s.h. |

Fourth Term (Spring Semester)

| | | |
|---------|---|------------|
| BUS-161 | Human Relations..... | 3 s.h. |
| PSY-223 | Child and Adolescent Psychology..... | 3 s.h. |
| PEH-908 | WESLS Cooperative Education Internship..... | 1 s.h. |
| | Recommended Elective(s)..... | 3 s.h. |
| | Emphasis Area Courses..... | 5-6 s.h. |
| | | 15-16 s.h. |

Total Program Hours 61-66 s.h.

Coaching Emphasis Courses

| | | |
|---------|---|---------|
| MGT-220 | Introduction to Sports Management..... | 3 s.h. |
| MGT-221 | Current Issues in Sport..... | 3 s.h. |
| PEC-110 | Coaching Ethics, Techniques and Theory..... | 1 s.h. |
| PEC-161 | Sports Officiating..... | 3 s.h. |
| | | 10 s.h. |

Wellness, Exercise Science, and Leisure Services (Continued)

Fitness/Wellness Emphasis Courses

| | | |
|---------|---|---------|
| MGT-110 | Principles of Marketing | 3 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. |
| PET-135 | Personal Trainer | 3 s.h. |
| | Physical Education/Activities Courses | 2 s.h. |
| | | 11 s.h. |

Business Emphasis Courses

| | | |
|---------|---|---------|
| BUS-102 | Introduction to Business | 3 s.h. |
| MKT-110 | Principles of Marketing | 3 s.h. |
| | OR MGT-101, Principles of Management (3 s.h.) | |
| MGT-220 | Introduction to Sport Management | 3 s.h. |
| MGT-221 | Current Issues in Sport | 3 s.h. |
| | | 12 s.h. |

Recommended Electives for Wellness, Exercise Science, and Leisure Services A.A.S. Degree:

| | | |
|---------|---|--------|
| BIO-207 | Anatomy and Physiology II | 4 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. |
| MAT-156 | Introduction to Statistics | 3 s.h. |
| MKT-140 | Principles of Selling | 3 s.h. |
| PEA-130 | Downhill Skiing | 1 s.h. |
| PEA-174 | Tennis I | 1 s.h. |
| PEA-190 | Yoga/Stretching I | 1 s.h. |
| PEA-191 | Pilates | 1 s.h. |
| PEA-287 | Weight Training II | 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. |
| PEH-180 | Rape Education and Self Defense | 2 s.h. |
| PEH-191 | Sports Nutrition | 3 s.h. |
| PET-110 | Introduction to Athletic Training | 2 s.h. |
| PTA-120 | Kinesiology | 3 s.h. |
| SOC-215 | Prime for Life: Substance Abuse | 1 s.h. |



Physical Fitness and Wellness Diploma

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. |
| PEC-127 | Care and Prevention of Athletic Injuries | 2 s.h. |
| PEH-111 | Personal Wellness | 3 s.h. |
| PEH-140 | First Aid | 1 s.h. |
| PEH-144 | Human Movement Science | 3 s.h. |
| | OR BIO-206, Anatomy and Physiology I (4 s.h.) | |
| | OR HSC-150, Body Structure and Function (4 s.h.) | |
| | Physical Education/Activities Elective | 1 s.h. |
| | Elective(s) | 3 s.h. |
| | | 17-18 s.h. |

Second Term (Spring Semester)

| | | |
|---------|--|------------|
| BIO-151 | Nutrition | 3 s.h. |
| | OR PEH-191, Sports Nutrition (3 s.h.) | |
| MKT-110 | Principles of Marketing | 3 s.h. |
| PEH-261 | Physical Activity for Health and Fitness | 3 s.h. |
| PET-135 | Personal Trainer | 3 s.h. |
| | Elective(s) | 1-3 s.h. |
| | | 13-15 s.h. |

Total Program Hours 30-33 s.h.

Recommended Electives:

| | | |
|---------|---|--------|
| BIO-151 | Nutrition | 3 s.h. |
| BIO-152 | Health and Nutrition | 3 s.h. |
| BUS-134 | The Successful Entrepreneur | 2 s.h. |
| BUS-136 | Creativity, Innovation and Opportunity Analysis | 2 s.h. |
| PEA-107 | Aerobic Circuit Training | 1 s.h. |
| PEA-130 | Downhill Skiing | 1 s.h. |
| PEA-146 | Physical Fitness I | 1 s.h. |
| PEA-147 | Physical Fitness I Lab | 1 s.h. |
| PEA-174 | Tennis I | 1 s.h. |
| PEA-187 | Weight Training I | 1 s.h. |
| PEA-190 | Yoga/Stretching I | 1 s.h. |
| PEA-191 | Pilates | 1 s.h. |
| PEA-287 | Weight Training II | 1 s.h. |
| PEH-221 | Introduction to Leisure Services | 3 s.h. |
| PET-110 | Introduction to Athletic Training | 2 s.h. |

Wellness, Exercise Science, and Leisure Services (Continued)

Physical Fitness and Wellness Certificate

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. |
| | OR PEH-191, Sports Nutrition (3 s.h.) | |
| BUS-107 | Business Careers..... | 1 s.h. |
| PEC-122 | Introduction to Anatomy and Physiology for Coaching*..... | 1 s.h. |
| PEC-127 | Care and Prevention of Athletic Injuries..... | 2 s.h. |
| PEH-111 | Personal Wellness | 3 s.h. |
| PEH-140 | First Aid | 1 s.h. |
| PEH-261 | Physical Activity for Health and Fitness..... | 3 s.h. |
| | Physical Education/Activities Elective(s)**..... | 2 s.h. |

Total Hours 16 s.h.

* HSC-150, Body Structure & Function, or BIO-206, Anatomy & Physiology I, or PEH-144, Human Movement Science, 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 online throughout the year.

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 NIACC website: <http://www.niacc.edu/athletics/admin/coachingauth.html>.

Required Courses

| | | |
|---------|---|--------|
| 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 and Prevention of Athletic Injuries..... | 2 s.h. |

Total Hours 5 s.h.

Recommended:

| | | |
|---------|-------------------------|--------|
| PEC-161 | Sports Officiating..... | 3 s.h. |
|---------|-------------------------|--------|

Industrial Division

Transfer Degree

Career Programs

Construction Technology

- Building Trades/Carpentry

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
 (641)422-4202
 byrnejos@niacc.edu

CONSTRUCTION TECHNOLOGY

Building Trades/Carpentry - page 88

MECHANICAL TECHNOLOGY

Automotive Service Diploma - page 87

Automotive Service Technology Degree - page 87

Climate Control (HVAC) Mechanics Diploma - page 89

Climate Control (HVAC) Technology Degree - page 89

PRECISION PRODUCTION TECHNOLOGY

General Machinist Diploma - page 91

Tool and Die Technology Degree - page 91

Welding Diploma - page 93

ENGINEERING RELATED TECHNOLOGY

Electromechanical Systems Technology - page 90

Industrial Technology - page 92



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.

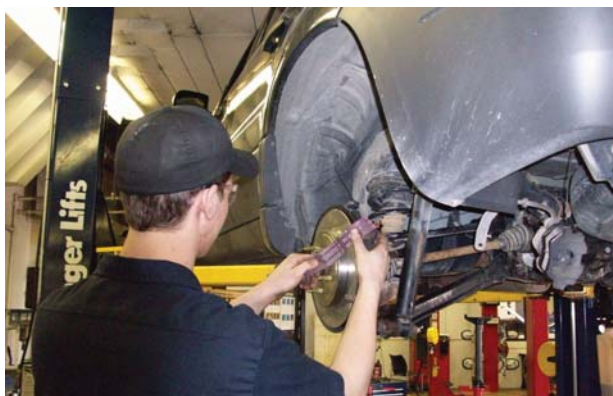
For more details on these transfer options, please refer to the College Transfer Programs section of the NIACC catalog or contact our academic advisor.



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-303 | Automotive Manual Drive Train & Axles | 3 s.h. |
| AUT-612 | Automotive Electrical Systems I | 3 s.h. |
| ELT-115 | Electronic Concepts | 3 s.h. |
| IND-190 | Skills and Safety in Industry | 1 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-404 | Automotive Suspension and Steering | 4 s.h. |
| AUT-504 | Automotive Brake Systems | 4 s.h. |
| ELT-745 | Maintenance Shop Operations | 3 s.h. |
| ENG-701 | Communications I | 3 s.h. |
| | | 14 s.h. |

Third Term (Summer)

| | | |
|---------|---|--------|
| AUT-703 | Automotive Heating & Air Conditioning | 3 s.h. |
| AUT-204 | Automotive Automatic Transmissions & Transaxles | 4 s.h. |
| | | 7 s.h. |

Second Year

Fourth Term (Fall Semester)

| | | |
|---------|--|---------|
| AUT-164 | Automotive Engine Repair | 4 s.h. |
| AUT-840 | Automotive Computerized Controls | 3 s.h. |
| AUT-657 | Automotive Electrical Systems II | 5 s.h. |
| BUS-161 | Human Relations | 3 s.h. |
| | | 15 s.h. |

Fifth Term (Spring Semester)

| | | |
|---------|--|---------|
| AUT-832 | Automotive Fuel Delivery Systems | 3 s.h. |
| AUT-858 | Advanced Automotive Engine Performance | 4 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. |
| | | 16 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 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. Upon successful completion of the prescribed curriculum with a grade point average of 2.00 (C) or above, the student is awarded a diploma.

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-110 | Construction Drawing..... | 1 s.h. |
| CON-121 | Carpentry Fundamentals I..... | 4 s.h. |
| CON-123 | Carpentry Fundamentals II..... | 4 s.h. |
| IND-190 | Skills and Safety in Industry..... | 1 s.h. |
| MAT-770 | Applied Math I..... | 2 s.h. |
| MAT-771 | Applied Math II..... | 2 s.h. |
| | | 15 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 37 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.

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. Upon successful completion of the first two terms of the Climate Control curriculum and SDV-135, Job Seeking Skills, with a grade point average of 2.00 (C) or above, the student is awarded a diploma.

The Climate Control (HVAC) Technology Program prepares students for entry into the commercial and industrial heating, ventilation, and air-conditioning industry. Upon satisfactory completion of the A.A.S. degree program, the student will qualify for an HVAC Service Technician license through the State of Iowa.

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. |
| IND-190 | Skills and Safety in Industry | 1 s.h. |
| MAT-770 | Applied Math | 2 s.h. |
| MAT-771 | Applied Math II | 2 s.h. |
| | | 18 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 66 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.

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.

Upon satisfactory completion of the first two terms of the Electromechanical Systems Technology curriculum with a grade point average of 2.00 (C) or above, the student is awarded a diploma in Wind Turbine Technology.

Upon satisfactory completion of the Electromechanical Systems Technology Program with a grade point average of 2.00 (C) or above, the student is awarded an Associate in Applied Science.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

| | | |
|-------------------------------------|--|---------|
| ELT-133 | Electronic Motor Drives | 2 s.h. |
| ELT-170 | Introduction to PLC's | 3 s.h. |
| ELT-190 | Introduction to Tech Computing and CAD | 3 s.h. |
| ELT-382 | Electronic Circuit Analysis | 3 s.h. |
| IND-190 | Skills and Safety in Industry | 1 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.) | | 16 s.h. |

Second Term (Spring Semester)

| | | |
|---------|--------------------------------|---------|
| ELT-210 | Motor Control Circuits | 3 s.h. |
| ELT-333 | Analog and Digital Electronics | 4 s.h. |
| ELT-745 | Maintenance Shop Operations | 3 s.h. |
| ELT-790 | Fluid Power | 3 s.h. |
| WTT-103 | Introduction to Wind Energy | 3 s.h. |
| | | 16 s.h. |

Third Term (Summer)

| | | |
|---------|------------------------------|--------|
| ELT-895 | Electromechanical Internship | 2 s.h. |
| | | 2 s.h. |

Second Year

Fourth Term (Fall Semester)

| | | |
|---|--------------------------------------|---------|
| BUS-161 | Human Relations | 3 s.h. |
| ELT-124 | Advanced PLCs and System Integration | 3 s.h. |
| ELT-734 | Industrial Instrumentation | 4 s.h. |
| ENG-701 | Communications I | 3 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.) | | 17 s.h. |

Fifth Term (Spring Semester)

| | | |
|---|----------------------------------|---------|
| ELT-710 | Computer Automated Manufacturing | 3 s.h. |
| ELT-750 | Facilities Maintenance | 3 s.h. |
| ENG-702 | Communications II | 3 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. |
| | | 14 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 with a grade point average of 2.00 (C) or above, the student is 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 with a grade point average of 2.00 (C) or above, the student is 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. |
| IND-190 | Skills and Safety in Industry..... | 1 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. |
| | | 19 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 78 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 with a grade point average of 2.00 (C) or above, the student is 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 26 semester hours of Industrial Technology credits and 4 semester hours of approved Math with a grade point average of 2.00 (C) or above during the first year of the program, the student is 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.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

| | | |
|---------|--|------------|
| ENG-102 | Composition & Speech I | 4 s.h. |
| | OR ENG-701 (3 s.h.) and ENG-702 (3 s.h.) | |
| IND-190 | Skills and Safety in Industry..... | 1 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. |
| | | 13-15 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 | 9 s.h. |
| | 18 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.

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.

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 a grade point average of 2.00 (C) or above, the student is awarded a NIACC diploma.

Upon satisfactory completion of WEL-222 and WEL-223 with a grade point average of 2.00 (C) or above, the student is awarded a certificate in Welding.

Required Courses/Suggested Schedule

First Year

First Term (Fall Semester)

| | | |
|---------|--|---------|
| IND-190 | Skills and Safety in Industry..... | 1 s.h. |
| MAT-770 | Applied Math I..... | 2 s.h. |
| MAT-771 | Applied Math II..... | 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. |
| | | 18 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 37 s.h.

Other Elective Welding Courses:

| | | |
|---------|---|--------|
| 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



Fire Science

PUBLIC SERVICE



Criminal Justice

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 completion of an Associate in Arts Degree and the required courses, with a grade point average of 2.00 (C) or better, 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-227 | 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* (5 s.h.) | |
| 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* (3 s.h.) | |
| 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 (3 s.h.) | |

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

Connie Glandon, Program Leader

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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-201 | Emergency Medical Technician..... | 7 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. |
| | | 21 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. |

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

Career Opportunities

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.

Fire Science courses are offered only on a need basis and are not regularly scheduled during the college year.

School Partnerships

ARTICULATION

POST SECONDARY ENROLLMENT OPTIONS

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 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
- Graphic Media Design
- Entrepreneurship
- Health Careers
- Hospitality and Food Service Management
- Industrial Technology
- Information Technology
- Marketing and Sales
- Professional Administration Services
- 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 23 semester hours 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; Hampton-Dumont High School and ABCM Care Center.

Information Technology - Garner-Hayfield High School

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

Industrial Technology - Rockwell

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 1-888-466-4222, 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 website. Some equivalency guide links include the University of Northern Iowa, Iowa State University, and the University of Iowa.



Division Chairs:

Wayne Allison, Fine Arts and Humanities
(641) 422-4242

Josh Byrnes, Agriculture and Industrial
(641) 422-4202

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Donna Orton, Health
(641) 422-4216

Jeff Platt, Social Science
(641) 422-4186

Kathy Rogotzke, Mathematics
(641) 422-4154

Michelle Petznick, Transfer Relations
(641) 422-4205

Accounting

Grand View College

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

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

Agriculture and Agricultural Related

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

| | |
|---|---------|
| Composition & Speech I and II | 8 s.h. |
| Mathematics, Chemistry, Computer Science, Physics, and Statistics | 13 s.h. |
| Introductory Biology, 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

Career opportunities in the field of art range from studio artist, graphic designer, web designer, fashion designer and more. If you are interested in pursuing a four-year degree in art, it is suggested you take the following Art Foundation courses, plus the general education courses required for an Associate in Arts degree.

Art Foundation Courses:

| | |
|--------------------------------|--------|
| Art History I | 3 s.h. |
| Art History II | 3 s.h. |
| Drawing I | 3 s.h. |
| Drawing II | 3 s.h. |
| Two-Dimensional Design | 3 s.h. |
| Three-Dimensional Design | 3 s.h. |

Depending on your interests, you can pick from the following art courses to complement your foundation courses.

Additional Art Courses:

| | |
|----------------------------|--------|
| Graphic Design I | 3 s.h. |
| Graphic Design II | 3 s.h. |
| Painting I | 3 s.h. |
| Painting II | 3 s.h. |
| Creative Photography | 3 s.h. |
| Ceramics | 3 s.h. |

It should be noted that NIACC offers a two-year degree in Graphic Media Design that is aimed at the student who wants to seek employment after two years, rather than transfer to a four-year institution. Information for this program can be found under Career Programs on Page 39.

Drake University

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

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

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

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

Simpson College

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

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

Upper Iowa University

RESIDENTIAL CAMPUS

Students should consider taking the following courses to meet requirements.

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

Art Education

Upper Iowa University

RESIDENTIAL CAMPUS

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

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

Athletic Trainer

Iowa State University

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

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

Simpson College

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

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

Other recommended courses:

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

Biology

Grand View College

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

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

Upper Iowa University

RESIDENTIAL CAMPUS

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

| | |
|----------------------------------|-----------|
| Biology I and II | 8 s.h. |
| Microbiology | 4 s.h. |
| College Chemistry I and II | 10 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 website 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 in in-depth review for Drake curriculum outcomes fulfillment upon transfer.

Grand View College

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

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

Iowa State University

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

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

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

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

Minnesota State University - Mankato

ACCOUNTING, FINANCE, MANAGEMENT, MARKETING, AND INTERNATIONAL BUSINESS

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

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

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

Simpson College

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

MANAGEMENT ACCOUNTING & ECONOMICS

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

The University of Iowa (Min. 2.75 GPA)

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

It is recommended that students intending to transfer to the Tippie College of Business complete all of the prerequisite courses prior to matriculating. Doing this will allow you to enter the College immediately upon transferring to the University of Iowa and will increase the likelihood of timely graduation. Additionally, you will need junior standing (60 semester hours) and a 2.75 prerequisite GPA with no grade below C, and a 2.75 cumulative GPA. Accounting majors must have a 2.75 prerequisite GPA, a 3.0 cumulative GPA, and a 2.67 GPA in financial and managerial accounting.

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

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

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

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

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

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

University of Northern Iowa (Min. 2.50 GPA)

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

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

BUSINESS TEACHING MAJOR

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

Upper Iowa University

RESIDENTIAL CAMPUS

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

MARKETING MAJOR

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

| | |
|---------------------------------|--------|
| Principles of Management | 3 s.h. |
| Principles of Advertising | 3 s.h. |
| Principles of Retailing | 3 s.h. |

ACCOUNTING MAJOR

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

MANAGEMENT MAJOR

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

MIS MAJOR

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

Waldorf College

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

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

Wartburg College

ACCOUNTING, FINANCE

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

MANAGEMENT, MARKETING

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

INTERNATIONAL BUSINESS

| | |
|--|-----------|
| One laboratory science | 4 s.h. |
| Western Civilization | 4 s.h. |
| Spanish (through the intermediate level) | 8-16 s.h. |
| Finite Math | 3 s.h. |

| | |
|---|--------|
| Introduction to Computers and Information Systems | 3 s.h. |
| Business Statistics | 3 s.h. |

Chiropractic

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

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

Coaching

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

Iowa State University

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

Simpson College

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

Communications

Waldorf College

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

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

Computer Information Systems

Waldorf College

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

| | |
|---|--------|
| Computer Business Applications | |
| OR | |
| Introduction to Computers and Information Systems | 3 s.h. |
| Management Information Systems I | 3 s.h. |
| IT Essentials | 4 s.h. |
| plus CISCO Networking | 4 s.h. |
| plus Database and SQL | 3 s.h. |
| plus Intro to Programming Logic with Language | 3 s.h. |
| plus Web Development I | 3 s.h. |
| Introduction to E-Commerce | 3 s.h. |
| Design Studio Applications | 3 s.h. |
| CISCO Networking | 4 s.h. |
| plus CISCO Routers | 4 s.h. |
| plus Network LANs and WANs | 5 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. |

Computer Science

Drake University

COMPUTER SCIENCE

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

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

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

Grand View College

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

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

Iowa State University

COMPUTER SCIENCE

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

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

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

Minnesota State University - Mankato

COMPUTER SCIENCE

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

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

CIS/MIS

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

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

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

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

Simpson College

COMPUTER SCIENCE

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

| | |
|---|--------|
| Calculus I | 4 s.h. |
| Business Statistics or Introduction to Statistics | 3 s.h. |
| Java | 4 s.h. |

University of Northern Iowa

COMPUTER SCIENCE

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

B.A. Degree: (select two)

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

B.S. Degree:

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

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

COMPUTER INFORMATION SYSTEMS

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

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

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

Conservation

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

Conservation Management*Upper Iowa University***RESIDENTIAL CAMPUS**

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

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

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

Criminal Justice*Buena Vista University*

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

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

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

Grand View College

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

| | |
|--------------------------------------|--------|
| Introduction to Psychology..... | 3 s.h. |
| Introduction to Sociology | 3 s.h. |
| Social Problems | 3 s.h. |
| Computer Business Applications | 3 s.h. |
| Administration of Justice..... | 3 s.h. |

| | |
|-----------------------------------|--------|
| American National Government..... | 3 s.h. |
| Introduction to Statistics..... | 3 s.h. |

Simpson College

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

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

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

WITH JUSTICE CONCENTRATION:

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

WITH ADMINISTRATION CONCENTRATION:

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

WITH CORRECTIONS CONCENTRATION:

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

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

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

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

Dentistry*The University of Iowa*

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

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

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

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

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

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

Early Childhood Education

Buena Vista University

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

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

- Students must have maintained a minimum cumulative grade point average of 2.0 on all courses acceptable for transfer.
- For acceptance into the Teacher Education Program, students must have: (a) a cumulative grade point average of 2.5; (b) the completion of the Praxis I exam with the minimum scores of 173 in Reading, 172 in Writing and 171 in Mathematics; (c) the completion of both PSY-281 Educational Psychology and PSY-223 Child and Adolescent Psychology with a minimum grade of C; and (d) other requirements as noted in the approved BVU education program.

| | |
|--|--------|
| Child Health, Safety and Nutrition | 3 s.h. |
| Early Childhood Curriculum II | 3 s.h. |
| Home and School Relationships in Early Childhood | 3 s.h. |
| Early Childhood Guidance | 3 s.h. |
| Child and Adolescent Psychology | |
| AND Educational Psychology | 6 s.h. |
| Child Growth and Development | 3 s.h. |
| Including Diverse Learners | 3 s.h. |
| Introduction to Teaching | 3 s.h. |
- The following courses should be successfully completed at NIACC for all elementary/Pre-K/K students to ensure transfer for an early childhood endorsement:

| | |
|--|--------|
| Child Health, Safety and Nutrition | 3 s.h. |
| Early Childhood Curriculum II | 3 s.h. |
| Home and School Relationships in Early Childhood | 3 s.h. |
| Early Childhood Guidance | 3 s.h. |
| Child and Adolescent Psychology | |
| AND Educational Psychology | 6 s.h. |
| Child Growth and Development | 3 s.h. |
| Including Diverse Learners | 3 s.h. |
| Introduction to Teaching | 3 s.h. |

| | |
|---|--------|
| Field Experience and Seminar | 1 s.h. |
| Educational Technology and Design | 3 s.h. |
| Children's Literature | 3 s.h. |
| Inquiry into Life Science (and Lab) | 4 s.h. |
| Physical Science | 4 s.h. |
| Math for Elementary Teachers I | |
| AND Math for Elementary Teachers II | 8 s.h. |

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

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

University of Northern Iowa

B.A. Elementary Childhood Education

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

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

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

Upper Iowa University

Pre-Kindergarten - Grade 3

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

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

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

Social and Behavioral Sciences (8 credit hours)

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

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

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

NIACC Courses:

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

Education

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

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

Buena Vista University

ELEMENTARY EDUCATION

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

| | |
|---|--------|
| Children's Literature..... | 3 s.h. |
| U.S. History or Non U.S. History | 3 s.h. |
| American Government | 3 s.h. |
| Geography course | 3 s.h. |
| Music Appreciation OR Art Appreciation OR | |
| Introduction to Theater OR Art History..... | 3 s.h. |
| *Physical Science OR Introduction to General Chemistry..... | 4 s.h. |
| *Inquiry Into Life Science | 4 s.h. |
| *Biology..... | 3 s.h. |
| Composition & Speech I and II..... | 8 s.h. |
| Mathematics for Elementary Teachers I and II | 8 s.h. |
| Literature course | 3 s.h. |
| Introduction to Teaching..... | 3 s.h. |
| AND Field Experience and Seminar..... | 1 s.h. |
| Educational Technology and Design..... | 3 s.h. |
| Educational Psychology | |
| AND Child and Adolescent Psychology..... | 6 s.h. |

* Must include one lab.

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

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

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

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

SECONDARY EDUCATION

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

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

1. Secondary Education requires major in content area.

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

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

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

Drake University

EDUCATION

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

Both Elementary and Secondary Education majors complete the following courses:

| | |
|--|--------|
| Composition & Speech I and II | 8 s.h. |
| Mathematics for Elementary Teachers I and II | |
| (elementary only)..... | 8 s.h. |
| American History..... | 6 s.h. |
| American Government..... | 3 s.h. |
| Public Speaking | 2 s.h. |
| Inquiry Into Life Science | 4 s.h. |

| | |
|--|--------|
| Biology I (may take Biological Principles + Lab) | 4 s.h. |
| General Chemistry I | 5 s.h. |
| Physical Science + Lab | 4 s.h. |
| Introduction to Teaching | 3 s.h. |
| AND Field Experience and Seminar | 1 s.h. |
| Classroom Assessment | 2 s.h. |
| Educational Technology and Design | 3 s.h. |
| Including Diverse Learners | 3 s.h. |

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

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

Grand View College

ELEMENTARY EDUCATION

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

ELEMENTARY/SECONDARY ART EDUCATION

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

SECONDARY EDUCATION/BUSINESS ADMINISTRATION

| | |
|--------------------------------------|--------|
| Introduction to Psychology | 3 s.h. |
| Educational Psychology | 3 s.h. |
| Developmental Psychology | 3 s.h. |
| Principles of Macroeconomics | 3 s.h. |
| Principles of Microeconomics | 3 s.h. |
| Business Law I and II | 6 s.h. |
| Management Information Systems | 3 s.h. |

| | |
|---|--------|
| Principles of Accounting I and II | 6 s.h. |
| College Algebra | 4 s.h. |
| Introduction to Teaching | 3 s.h. |
| AND Field Experience and Seminar | 1 s.h. |
| Classroom Assessment | 2 s.h. |
| Including Diverse Learners | 3 s.h. |
| Educational Technology and Design | 3 s.h. |

Iowa State University

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

ELEMENTARY EDUCATION

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

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

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

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

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

Minnesota State University - Mankato

SECONDARY EDUCATION (High School Teaching)

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

ELEMENTARY EDUCATION

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

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

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

Simpson College

EDUCATION

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

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

EDUCATION

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

Elementary Only:

| | |
|---|--------|
| Art in the Elementary School | 3 s.h. |
| Math for Elementary Teachers I and II..... | 8 s.h. |
| American National Government..... | 3 s.h. |
| U.S. History to 1877 | 3 s.h. |
| OR U.S. History Since 1877 | 3 s.h. |
| Western Civilization: Ancient to Early Modern..... | 4 s.h. |
| OR World Literature I | 3 s.h. |
| Western Civilization: Early Modern to Present | 4 s.h. |
| OR World Literature II | 3 s.h. |
| Children's Literature..... | 3 s.h. |

One of the following:

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

ANDOne of the following:

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

The University of Iowa

EDUCATION

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

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

ELEMENTARY AND SECONDARY EDUCATION

NIACC students should complete:

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

ADDITIONAL SECONDARY EDUCATION REQUIREMENTS

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

APPLICATION DEADLINES:

Fall Semester - March 15

Spring Semester - October 15

University of Northern Iowa

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

ELEMENTARY EDUCATION

Elementary Education (K-6) should consider:

| | |
|--|--------|
| Art in the Elementary School | 3 s.h. |
| Composition & Speech I and II | 8 s.h. |
| Children's Literature | 3 s.h. |
| Mathematics for Elementary Teachers I and II | 8 s.h. |
| Biology and Physical Science..... | 8 s.h. |
| One course in Life Science and one in Physical Science (at least one must have a lab, if A.A. is not earned) | |

| | |
|---|--------|
| Child and Adolescent Psychology (not required)..... | 3 s.h. |
| Developmental Psychology..... | 3 s.h. |
| OR Child Growth and Development..... | 3 s.h. |
| OR Child and Adolescent Psychology..... | 3 s.h. |
| Introduction to Teaching..... | 3 s.h. |
| AND Field Experience and Seminar..... | 1 s.h. |
| Educational Technology and Design..... | 3 s.h. |
| Educational Psychology..... | 3 s.h. |
| Classroom Assessment..... | 2 s.h. |
| Including Diverse Learners..... | 2 s.h. |

EARLY CHILDHOOD EDUCATION*(For specific curriculum, see **Early Childhood Education** section)***TECHNOLOGY EDUCATION AND TRAINING**

Integrated Technology Education majors should consider:

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

SECONDARY EDUCATION

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

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

Available course work in major and/or minor.

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

Upper Iowa University

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

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

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

EDUCATION

| | |
|-------------------------------|--------|
| Developmental Psychology..... | 3 s.h. |
|-------------------------------|--------|

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

Elementary Education majors may also take:

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

Prekindergarten-Grade 3 majors:

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

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

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

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

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

* Only Elementary Education needs two sciences.

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

SCIENCE CONCENTRATION

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

MATHEMATICS CONCENTRATION

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

SPANISH CONCENTRATION

Complete at least 12 credits from the following:

| | |
|------------------------------------|--------|
| Elementary Spanish I and II..... | 8 s.h. |
| Intermediate Spanish I and II..... | 6 s.h. |
| Advanced Spanish I and II..... | 6 s.h. |

THEATRE CONCENTRATION

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

COACHING AUTHORIZATION/ENDORSEMENT

| | |
|--|--------|
| Care and Prevention of Athletic 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. |
| AND Field Experience and Seminar | 1 s.h. |
| Educational Technology and Design | 3 s.h. |
| Composition & Speech I and II | 8 s.h. |
| Children's 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. |
| AND Field Experience and Seminar | 1 s.h. |
| Educational Technology and Design | 3 s.h. |
| Composition & Speech I and II | 8 s.h. |
| Introduction to 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 website at <http://www.drake.edu/dc/> or contact the Office of Admissions, 1-800-44-DRAKE, Ext. 3181. It is recommended that NIACC students planning for transfer to Drake save their NIACC course syllabi for in-depth review for Drake curriculum outcomes fulfillment upon transfer.

Exercise Science

Iowa State University

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

Graphic Arts

Grand View College

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

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

History

Waldorf College

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

ALL HISTORY MAJORS

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

TRADITIONAL HISTORY MAJOR

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

HISTORY - POLITICAL SCIENCE MAJOR

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

HISTORY - PRE-LAW MAJOR

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

Home Economics*University of Northern Iowa***INTERIOR DESIGN**

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

TEXTILES AND APPAREL

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

*Iowa State University***FAMILY AND CONSUMER SCIENCES EDUCATION**

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

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

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

Humanities*Waldorf College*

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

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

Human Services*Buena Vista University*

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

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

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

Grand View College

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

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

*Upper Iowa University***RESIDENTIAL CAMPUS**

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

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

Industrial Technology*University of Northern Iowa*

The Department of Industrial Technology at the University of Northern Iowa has the following programs for students to pursue a four-year degree: Construction Management, Electrical and Information Engineering Technology, Graphic Communications, Technology Management, Technology Education and Training,

and Manufacturing Technology with three options - Metal Casting, Automation and Production, and Design.

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

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

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

If you have any questions about any of the Industrial Technology programs at the University of Northern Iowa, please contact our department at (319) 273-2562 or visit the website 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, micro-computer, instrumentation, telecommunications, signal processing, and networking areas; also covered are mechanical, hydraulic, and pneumatic system controls. Students from Information Systems Technology and Electromechanical Systems Technology at NIACC may have a specific interest in the UNI EIET program.

Transferable NIACC Courses:

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

*Course also meets UNI Liberal Arts Core requirements.

TECHNOLOGY EDUCATION - TEACHING

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

Transferable NIACC Courses:

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

TECHNOLOGY EDUCATION - TRAINING

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

MANUFACTURING TECHNOLOGY

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

Transferable NIACC Courses:

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

TECHNOLOGY MANAGEMENT

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

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

Information Systems Technology/MIS

*Buena Vista University***MIS**

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

*Drake University***INFORMATION SYSTEMS**

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

* Calculus I may be taken instead of Calculus.

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

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

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

The University of Iowa

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

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

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

Liberal Arts

Associate in Arts — purpose of the degree includes:

1. Provide a degree goal for students who choose to follow a course of study which is specifically designed for transfer to a baccalaureate degree program.

2. Provide the essential general education, grade, and semester hour requirements for upper division status at most senior colleges and universities.

Requirements for the degree are provided on page 5 of the catalog.

Marketing

Simpson College

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

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

Medical Technology (Clinical Lab Science)

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

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

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

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

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

Mortuary Science

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

Recommended courses:

- 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 | 12 s.h. |
| Aural Skills I, II, III and IV | 8 s.h. |
| Applied Music | 4-8 s.h. |
| Choir and/or Band | 4-8 s.h. |
| Western Civilization | 8 s.h. |
| Math/Science | 8 s.h. |
| American Government | 3 s.h. |
| Introduction to Sociology | 3 s.h. |
| Developmental Psychology | 3 s.h. |
| Introduction to Teaching | 3 s.h. |

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

Simpson College

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

| | |
|---------------------------------|----------|
| Music Appreciation..... | 3 s.h. |
| Music Theory I..... | 3 s.h. |
| Music Theory II..... | 3 s.h. |
| Music Theory III..... | 3 s.h. |
| Music Theory IV..... | 3 s.h. |
| Aural Skills I..... | 2 s.h. |
| Aural Skills II..... | 2 s.h. |
| Aural Skills III..... | 2 s.h. |
| Aural Skills IV..... | 2 s.h. |
| Applied Music Piano..... | 1-2 s.h. |
| Applied Music Voice..... | 1-2 s.h. |
| Applied Music Instrumental..... | 1-2 s.h. |
| Concert Chorus..... | 1-4 s.h. |
| Band..... | 1-4 s.h. |
| Jazz Band..... | 1-4 s.h. |

Waldorf College

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

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

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

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

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

Nursing**Grand View College**

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

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

The University of Iowa

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

This program is designed for associate degree registered nurses who are ready to expand their professional potential by earning the BSN degree. The University of Iowa College of Nursing offers its RN-BSN Progression program in collaboration with NIACC. Prerequisite course work can be completed locally or with NIACC online courses in preparation for the online RN-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, world language, and computer skills, as well as basic nursing competence. 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.

Please visit the College of Nursing website at www.nursing.uiowa.edu for information on how to get your transcripts evaluated. Minimum GPA is 3.0. 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.

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

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

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

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

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

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

Occupational Therapy**St. Ambrose University**

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

| | |
|--------------------------------------|--------|
| Introductory Biology and Lab..... | 4 s.h. |
| Introduction to General Chemistry OR | |
| Survey of Physics and Lab..... | 4 s.h. |

| | |
|--|--------|
| Composition I | 3 s.h. |
| Public Speaking | 2 s.h. |
| Introduction to Psychology | 3 s.h. |
| Developmental Psychology | 3 s.h. |
| Abnormal Psychology | 3 s.h. |
| Literature | 3 s.h. |
| Philosophy | 3 s.h. |
| Art, Music, Theater | 6 s.h. |
| American History | 3 s.h. |
| Medical Terminology | 1 s.h. |
| Anatomy and Physiology | 8 s.h. |
| Introduction to Sociology | 3 s.h. |
| Introduction to Computer/Information Systems | 3 s.h. |
| Introduction to Statistics | 3 s.h. |
| Introduction to Ethics | 3 s.h. |

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

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

Optometry

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

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

| | |
|---------------------------------|--------|
| Calculus I | 4 s.h. |
| Plus electives to total 60 s.h. | |

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

Pharmacy

Drake University

COLLEGE OF PHARMACY AND HEALTH SCIENCES

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

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

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

| | |
|--|---------|
| Composition I | 3 s.h. |
| Speech | 2 s.h. |
| *General Chemistry I and II | 10 s.h. |
| *Organic Chemistry I and II | 10 s.h. |
| *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 website 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 website. The College of Pharmacy accepts PCAT scores a maximum of 2 years old.
6. Two letters of reference are required. They should be processed through the PharmCAS application service. Electronic submission is preferred.
7. Personal interviews will be required. Candidates will be contacted by the college if selected for an interview.

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

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

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

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

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

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

Physical Education

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

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

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

Iowa State University

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

GENERAL EDUCATION

| | |
|--|--------|
| Anatomy and Physiology | 4 s.h. |
| Introduction to Computers and Information Systems (non-teacher ed only) | 3 s.h. |

| | |
|------------------------------------|--------|
| Finite Math | 3 s.h. |
| Introduction to Psychology..... | 3 s.h. |
| Introduction to Sociology | 3 s.h. |
| Composition & Speech I and II..... | 8 s.h. |

TEACHER LICENSURE

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

EXERCISE SCIENCE

| | |
|---|--------|
| Survey of Physics OR College Physics I..... | 4 s.h. |
| College Chemistry I | 5 s.h. |
| Nutrition..... | 3 s.h. |

ATHLETIC TRAINING

| | |
|---|--------|
| Survey of Physics OR College Physics I..... | 4 s.h. |
| College Chemistry I | 5 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 | 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..... | 10 s.h. |
| College Physics I and II or Classical Physics I and II | 8-10 s.h. |
| Computer Business Applications | 3 s.h. |
| Differential Equations with Laplace..... | 3 s.h. |
| Engineering Problems with FORTRAN..... | 3 s.h. |
| or Engineering Graphics and Design..... | 3 s.h. |

Physical Therapy*The University of Iowa*

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

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

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

Physician*The University of Iowa*

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

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

General education to complete Associate in Arts Degree.

Physician Assistant

The University of Iowa

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

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

General education electives to complete Associate in Arts Degree.

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

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

Physics - Applied

University of Northern Iowa

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

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

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

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

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

Political Science

Simpson College

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

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

Psychology

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

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

Buena Vista University

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

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

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

A second major or minor is required for this degree.

Simpson College

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

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

Complete additional courses to satisfy A.A. Degree.

Upper Iowa University

RESIDENTIAL CAMPUS

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

| | |
|--------------------------------------|--------|
| Introduction to Psychology | 3 s.h. |
| Introduction to Human Services | 3 s.h. |

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

Public Relations

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

Radiology

(Four-Year Degree)

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

| | |
|--|--------|
| Biology I and II | 8 s.h. |
| Anatomy and Physiology I and II | 8 s.h. |
| Composition & Speech I and II | 8 s.h. |
| Western Civilization | 8 s.h. |
| College Algebra | 4 s.h. |
| Trigonometry and Analytic Geometry | 3 s.h. |
| Philosophy | 3 s.h. |
| College Physics I and II | 8 s.h. |
| Chemistry | 8 s.h. |
| Social Science Elective(s) | 6 s.h. |

Recreation

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

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

Social Work

General education includes the following courses:

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

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

Wartburg College

| | |
|--|----------|
| Composition & Speech I and II | 8 s.h. |
| Introduction to Psychology | 3 s.h. |
| Introduction to Sociology | 3 s.h. |
| Principles of Macroeconomics or Principles of Microeconomics | 3 s.h. |
| American National Government | 3 s.h. |
| Western Civilization | 4-8 s.h. |
| Introductory Biology & Lab | 4 s.h. |

| | |
|---|----------|
| Intermediate Algebra (or higher math) | 3-4 s.h. |
| Humanities | 3-6 s.h. |

Sports Administration

Simpson College

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

Theatre

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

Simpson College

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

| | |
|---|--------|
| Oral Interpretation | 3 s.h. |
| Introduction to Theatre, TV, and Film | 3 s.h. |
| Introduction to Acting | 3 s.h. |

Also required for Theatre Arts with Education program:

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

Waldorf College

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

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

Veterinary Medicine

Iowa State University

(GPA is a competitive factor for admission.)

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

Credits earned must include the following:

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

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

Visual Arts

Grand View College

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

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

Wellness

Waldorf College

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

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

Students could also complete additional course work for:

SCIENCE/RESEARCH TRACK

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

CHILDREN'S WELLNESS TRACK

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

Online Courses Leading to an Associate Degree

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

| DEGREE REQUIREMENT | SEMESTER HOURS |
|--|----------------|
| Communication | 8 s.h. |
| <i>Composition I (ENG-105)</i> | 3 s.h. |
| <i>Composition II (ENG-106)</i> | 3 s.h. |
| <i>Public Speaking (SPC-111)</i> | 2 s.h. |
| Humanities | 8 s.h. |
| <i>Art History I (ART-203)</i> | 3 s.h. |
| <i>Art History II (ART-204)</i> | 3 s.h. |
| <i>U.S. History to 1877 (HIS-151)</i> | 3 s.h. |
| <i>U.S. History Since 1877 (HIS-152)</i> | 3 s.h. |
| <i>Short Story/Novel (LIT-160)</i> | 3 s.h. |
| <i>Poetry/Drama (LIT-170)</i> | 3 s.h. |
| Natural Science/Mathematics | 8 s.h. |
| <i>Introductory Biology (BIO-102)</i> | 3 s.h. |
| <i>Nutrition (BIO-151)</i> | 3 s.h. |
| <i>Health and Nutrition (BIO-152)</i> | 3 s.h. |
| <i>Introduction to General Chemistry (CHM-122)</i> | 4 s.h. |
| <i>Math for Liberal Arts (MAT-110)</i> | 3 s.h. |
| <i>Trigonometry and Analytic Geometry (MAT-134)</i> | 3 s.h. |
| <i>Introduction to Statistics (MAT-156)</i> | 3 s.h. |
| <i>Calculus (MAT-165)</i> | 3 s.h. |
| Social Science | 8 s.h. |
| <i>Personal Finance (ECN-115)</i> | 3 s.h. |
| <i>Principles of Macroeconomics (ECN-120)*</i> | 3 s.h. |
| <i>Principles of Microeconomics (ECN-130)*</i> | 3 s.h. |
| <i>American National Government (POL-111)</i> | 3 s.h. |
| <i>International Relations (POL-121)</i> | 3 s.h. |
| <i>Introduction to Psychology (PSY-111)*</i> | 3 s.h. |
| <i>Developmental Psychology (PSY-121)*</i> | 3 s.h. |
| <i>Child and Adolescent Psychology (PSY-223)</i> | 3 s.h. |
| <i>Introduction to Sociology (SOC-110)</i> | 3 s.h. |
| <i>Marriage and Family (SOC-120)</i> | 3 s.h. |
| Distributed Requirement Choose from courses above (under Communication, Humanities, Natural Science/Mathematics, and Social Sciences) | 8 s.h. |
| Electives | |
| <i>Introduction to Accounting (ACC-111)</i> | 3 s.h. |
| <i>Principles of Accounting I (ACC-121)</i> | 3 s.h. |
| <i>Principles of Accounting II (ACC-122)</i> | 3 s.h. |
| <i>Payroll Accounting (ACC-161)</i> | 3 s.h. |
| <i>Introduction to Keyboarding (ADM-105)*</i> | 1 s.h. |
| <i>Keyboarding Skill Development (ADM-108)*</i> | 1 s.h. |
| <i>Cultural Anthropology (ANT-105)</i> | 3 s.h. |
| <i>Computer Literacy (BCA-100)*</i> | 1 s.h. |
| <i>Introduction to Computers and Information Systems (BCA-101)</i> | 3 s.h. |
| <i>Management Information Systems (BCA-103)</i> | 3 s.h. |
| <i>Basic Word Processing (BCA-129)*</i> | 2 s.h. |

| DEGREE REQUIREMENT | SEMESTER HOURS |
|---|----------------|
| <i>Microsoft Access (BCA-163)*</i> | 1 s.h. |
| <i>Personal Information Management (BCA-170)*</i> | 2 s.h. |
| <i>Basic Presentation Software (BCA-174)*</i> | 1 s.h. |
| <i>Introduction to Microsoft Publisher (BCA-182)</i> | 1 s.h. |
| <i>Beginning Web Page Development (BCA-185)</i> | 3 s.h. |
| <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>Search Engine Optimization (BCA-729)*</i> | 1 s.h. |
| <i>JavaScript Programming for the Web (BCA-775)*</i> | 1 s.h. |
| <i>AJAX Basics (BCA-778)*</i> | 1 s.h. |
| <i>Introduction to Business (BUS-102)</i> | 3 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>Internet Law, Copyright and Computer Ethics (BUS-159)*</i> | 1 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>Introduction to Programming (CIS-119)</i> | 4 s.h. |
| <i>Introduction to Programming Logic with Language (CIS-125)</i> | 3 s.h. |
| <i>Java (CIS-172)</i> | 4 s.h. |
| <i>Web Development I (CIS-210)</i> | 3 s.h. |
| <i>Web Development II (CIS-232)*</i> | 1 s.h. |
| <i>Bot Programming/Game and Application Automation (CIS-620)*</i> | 1 s.h. |
| <i>Construction Safety (CON-107)</i> | 2 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>Facilities Maintenance (ELT-750)</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. |

| DEGREE REQUIREMENT | SEMESTER HOURS |
|--|----------------|
| <i>Visual Communication (GRA-108)</i> | 3 s.h. |
| <i>Electronic Portfolio (GRA-299)</i> | 3 s.h. |
| <i>Dreamweaver Basics (GRA-761)*</i> | 1 s.h. |
| <i>Flash Basics (GRA-762)*</i> | 1 s.h. |
| <i>Fireworks Basics (GRA-763)*</i> | 1 s.h. |
| <i>Illustrator Basics (GRA-764)*</i> | 1 s.h. |
| <i>InDesign Basics (GRA-765)*</i> | 1 s.h. |
| <i>Photoshop Basics (GRA-766)*</i> | 1 s.h. |
| <i>Basic Medical Insurance and Coding (HIT-210)</i> | 2 s.h. |
| <i>Medical Terminology I (HSC-120)</i> | 3 s.h. |
| <i>Medical Terminology II (HSC-121)</i> | 3 s.h. |
| <i>Laboratory Tests (HSC-155)</i> | 2 s.h. |
| <i>Principles of Management (MGT-101)</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>Music Appreciation (MUS-100)</i> | 3 s.h. |
| <i>CISCO Networking (NET-213)</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>Physical Fitness I (PEA-146)</i> | 1 s.h. |
| <i>Coaching Ethics, Techniques and Theory (PEC-110)</i> | 1 s.h. |
| <i>Athletic Development and Human Growth (PEC-115)</i> | 1 s.h. |
| <i>Introduction to Anatomy and Physiology for Coaching (PEC-122)</i> | 1 s.h. |
| <i>Sports Officiating (PEC-161)</i> | 3 s.h. |
| <i>PTA Terminology (PTA-100)</i> | 1 s.h. |
| <i>Speed Reading (RDG-161)</i> | 1 s.h. |
| <i>Job Seeking Skills (SDV-135)</i> | 1 s.h. |
| <i>College Essentials (SDV-199)</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-123 | Three-Dimensional Design | 3 s.h. |
| ART-133 | Drawing | 3 s.h. |
| ART-134 | Drawing II | 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. |
|---------|---------------------------------|--------|

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. |
|---------|--------------------------|--------|

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-101 | Introduction to 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-120 | Music Theory I | 3 s.h. |
| MUS-121 | Music Theory II | 3 s.h. |
| MUS-130 | Aural Skills I | 2 s.h. |
| MUS-131 | Aural Skills II | 2 s.h. |
| MUS-132 | Aural Skills III | 2 s.h. |
| MUS-133 | Aural Skills IV | 2 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-174 | North Iowa Choral Society | 1 s.h. |
| MUS-212 | American Musical Heritage | 3 s.h. |
| MUS-220 | Music Theory III | 3 s.h. |
| MUS-221 | Music Theory IV | 3 s.h. |
| MUA-120 | Applied Piano | 1 s.h. |
| MUA-148 | Applied Instrumental | 1-2 s.h. |
| MUA-285 | Applied Vocal | 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-132 | Introduction to Organic and Biochemistry..... | 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-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-153 | Math for Elementary Teachers I..... | 4 s.h. |
| MAT-154 | Math for Elementary Teachers II..... | 4 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-241 | Abnormal 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-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. |

COMPUTER TECHNOLOGY

| | | |
|---------|--|--------|
| 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-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-170 | Personal Information Management..... | 2 s.h. |
| BCA-174 | Basic Presentation Software | 1 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-125 | Introduction to Programming Logic with Language | 3 s.h. |
| CIS-155 | Introduction to Video Game Testing..... | 3 s.h. |
| CIS-156 | Testing Concepts..... | 4 s.h. |
| CIS-172 | Java..... | 4 s.h. |
| CIS-246 | Intermediate Testing Concepts..... | 4 s.h. |
| CIS-332 | Database and SQL..... | 3 s.h. |
| GRA-108 | Visual Communication | 3 s.h. |
| GRA-123 | 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. |
| GRA-761 | Dreamweaver Basics | 1 s.h. |
| GRA-762 | Flash Basics..... | 1 s.h. |
| GRA-763 | Fireworks Basics..... | 1 s.h. |
| GRA-764 | Illustrator Basics..... | 1 s.h. |
| GRA-765 | InDesign Basics | 1 s.h. |
| GRA-766 | Photoshop Basics | 1 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-201 | Network LANs & WANs | 5 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-304 | Windows Workstation Operating Systems..... | 4 s.h. |
| NET-314 | Windows Server | 4 s.h. |

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|---------|--------------------------------------|--------|
| NET-324 | Windows Network Management | 4 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..... | 1 s.h. |
| BCA-270 | Learn to Buy and Sell on eBay | 1 s.h. |
| BCA-280 | Introduction to Quickbooks | 1 s.h. |
| FIN-210 | Analysis and Valuation of Stocks | 1 s.h. |
| FIN-214 | Stocks, Bonds, and Investing: Oh My!..... | 1 s.h. |

INTERNSHIPS

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

MANAGEMENT

| | | |
|---------|--|--------|
| BUS-102 | Introduction to Business..... | 3 s.h. |
| BUS-142 | Planning the Entrepreneurial Venture | 2 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

| | | |
|---------|-------------------------------|--------|
| BCA-136 | Advanced Word Processing..... | 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-144 | Introduction to STEM Careers | 1 s.h. |
| SDV-160 | Career Decision Making..... | 2 s.h. |

COACHING ENDORSEMENT

| | | |
|---------|--|--------|
| 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 & Physiology for Coaching..... | 1 s.h. |
| PEC-127 | Care & Prevention of Athletic Injuries | 2 s.h. |
| PEC-161 | Sports Officiating..... | 3 s.h. |

COOPERATIVE EDUCATION INTERNSHIPS

| | | |
|---------|---------------------------------------|----------|
| SDV-210 | Cooperative Education Internship..... | 1-5 s.h. |
|---------|---------------------------------------|----------|

CRIMINAL JUSTICE

| | | |
|---------|--|--------|
| CRJ-100 | Introduction to Criminal Justice..... | 3 s.h. |
| CRJ-105 | Intermediate Criminal Investigation..... | 3 s.h. |

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|---------|--|--------|
| CRJ-110 | Patrol Procedures | 3 s.h. |
| CRJ-130 | Criminal Law | 3 s.h. |
| CRJ-141 | Criminal Investigation..... | 3 s.h. |
| CRJ-227 | 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 | Classroom Assessment..... | 2 s.h. |
| EDU-246 | Including Diverse Learners | 3 s.h. |
| EDU-250 | Educational Technology and Design..... | 3 s.h. |
| EDU-290 | Education Capstone Seminar | 1 s.h. |

ENGINEERING

| | | |
|---------|---|--------|
| EGR-100 | Engineering Orientation | 1 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-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. |

PHYSICAL EDUCATION/ACTIVITIES

| | | |
|---------|---|--------|
| PEA-100 | Aerobics/Tae-Bo I..... | 1 s.h. |
| PEA-107 | Aerobic Circuit Training..... | 1 s.h. |
| PEA-130 | Downhill Skiing..... | 1 s.h. |
| PEA-146 | Physical Fitness I | 1 s.h. |
| PEA-147 | Physical Fitness I Lab | 1 s.h. |
| PEA-174 | Tennis I..... | 1 s.h. |
| PEA-187 | Weight Training I..... | 1 s.h. |
| PEA-190 | Yoga/Stretching I..... | 1 s.h. |
| PEA-287 | Weight Training II | 1 s.h. |
| PEC-161 | Sports Officiating..... | 3 s.h. |
| PEH-111 | Personal Wellness | 3 s.h. |
| PEH-140 | First Aid | 1 s.h. |
| PEH-144 | Human Movement Science..... | 3 s.h. |
| PEH-161 | Introduction to Physical Education..... | 2 s.h. |
| PEH-180 | Rape Education and Self Defense..... | 2 s.h. |
| PEH-191 | Sports Nutrition | 3 s.h. |

| | | |
|---------|---|----------|
| PEH-221 | Introduction to Leisure Services..... | 3 s.h. |
| PEH-261 | Physical Activity for Health and Fitness..... | 3 s.h. |
| PEH-908 | Cooperative Education..... | 1-3 s.h. |
| PET-110 | Introduction to Athletic Training..... | 2 s.h. |
| PET-135 | Personal Trainer..... | 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. |
| BIO-922 | Field Studies in Biology..... | 1-4 s.h. |
| EDU-236 | Young Adult Literature..... | 3 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. |
| 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. |
| MAT-099 | Combined Algebra..... | 5 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 | PET | Physical Education Training |
| ECE | Early Childhood Education | PEV | Intercollegiate Physical Education |
| ECN | Economics | PHI | Philosophy |
| EDU | Education | PHR | Pharmacy Technician |
| EGR | Engineering | PHS | Physical Science |
| EGT | Engineering Technology | PHY | Physics |
| ELT | Electronics | PNN | Practical Nursing |
| EMS | Emergency Medical Services | POL | Political Science |
| ENG | English Composition | PSY | Psychology |
| ENV | Environmental Science | PTA | Physical Therapist Assistant |
| FIN | Finance | RDG | Reading |
| FIR | Fire Science | SDV | Student Development |
| FLS | Foreign Language - Spanish | SOC | Sociology |
| GEO | Geography | SPC | Speech |
| GRA | Graphic Communications | WEL | Welding |
| | | WTT | Wind Energy & Turbine Technician |

**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 and Student 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. Also Open Entry. (0-30) *Equivalent to BUSN-102, 15-112.*

ADM-108 Keyboarding Skill Development (1 s.h.)

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. Also Open Entry. (0-30) *Equivalent to 15-113, BUSN-103.*

ADM-123 Document Formatting (3 s.h.)

Prerequisite: Keyboarding skill of 30 wam (words a minute) with 3 or fewer errors on a 3-minute timed writing is recommended. 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 Applications (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 empha-

sizes 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. Corequisites: BIO-186, Microbiology, and ENG-102, Composition and Speech I, or ENG-105, Composition I. Nursing I utilizes the nursing process with emphasis on assessment and nursing diagnosis in meeting client needs resulting from impairments relating to safety and comfort throughout the life span. Pharmacological concepts, diet modification, psychosocial concepts, and health maintenance are integral considerations in the progressive development of the student's knowledge and skills. Clinical experiences include opportunities to apply nursing roles and the nursing process in long-term care, medical-surgical, and community settings. (60-105) *Equivalent to 90-108, ADNS-702.*

ADN-103 Nursing II (10 s.h.)

Prerequisite: BIO-206, Anatomy and Physiology I with Lab; ADN-102, Nursing I; PSY-121, Developmental Psychology; and PSY-111, Introduction to Psychology; ENG-105, Composition I; BIO-186, Microbiology; ADN-101, Introduction to Nursing. Nursing II utilizes the nursing process with emphasis on planning in meeting client needs resulting from impairments relating to self-esteem and mobility throughout the life span. Pharmacological concepts, diet modification, psychosocial concepts, and health maintenance are integral considerations in the progressive development of the student's knowledge and skills. Clinical experiences include opportunities to apply nursing roles and the nursing process in maternal-newborn, pediatrics, skilled/rehabilitation, 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, discussion of psychiatric concepts, 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 micro and macro management functions. (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.*

AGC-190 Skills and Safety in Agriculture (1 s.h.)
This course is designed to acquaint the student with the proper personal and shop safety procedures needed to function in an agricultural lab setting. In addition to the safety, students will also receive instruction on first aid in an emergency situation, as well as computing skills needed to be successful in an agricultural setting. (7.5-15)

AGC-314 Leadership in Agriculture (2 s.h.)
Prerequisite: Successful completion of the first year Agriculture Program. Develop skills in parliamentary procedure, business meeting agendas, techniques of delegation, applied communication skills, organization structure and job seeking skills. Emphasis will also be placed on salaries, benefits, retirements, personal finance, and other human resource items deemed viable for today's workplace. (30-0)

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 pro-

vided 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 20-212, 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.)

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 humankind. (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.)
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-123 Three-Dimensional Design (3 s.h.)
Beginning experiences in conceiving and making in three dimensions; emphasis on interaction between work and idea, skills in art making, and common vocabulary of art. An exploration of aesthetic and practical considerations of working three-dimensionally. (45-0)

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-134 Drawing II (3 s.h.)
Prerequisite: ART-133, Drawing I. A continuation of Drawing I, with a greater emphasis on self-expression. (45-0)

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: 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-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.)
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 auto-

otive 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-164 Automotive Engine Repair (4 s.h.)

Prerequisite: 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)

AUT-204 Automotive Automatic Transmissions and Transaxles (4 s.h.)

Prerequisite: 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. (15-90)

AUT-303 Automotive Manual Drive Trains and Axles (3 s.h.)

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-404 Automotive Suspension & Steering (4 s.h.)

Prerequisites: AUT-104, Introduction to Automotive Technology, and AUT-115, Automotive Shop Safety. Instruction/laboratory service procedures for inspection, adjustments, alignment, repair and/or replacement of suspension and steering components. (15-90)

AUT-504 Automotive Brake Systems (4 s.h.)

Prerequisites: AUT-104, Introduction to Automotive Technology, and AUT-115, Automotive Shop Safety. 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)

AUT-612 Automotive Electrical Systems I (3 s.h.)

Corequisite: AUT-104, Introduction to Automotive Technology. 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: AUT-612, Automotive Electrical Systems I. 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: ELT-115, Electronic Concepts. 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: ELT-115, Electronic Concepts. 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: ELT-115, Electronic Concepts. 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-858 Advanced Automotive Engine Performance (4 s.h.)

Prerequisite: 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. (15-90)

AUT-865 Automotive Engine Performance Testing (5 s.h.)

Prerequisite: AUT-840, Automotive Computerized Controls. 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.)

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 Comprehensive 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 of Microsoft Access. (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 of Microsoft Outlook. (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 of Microsoft PowerPoint. (5-20) *Equivalent to 15-226, COMP-114.*

BCA-182 Introduction to Microsoft Publisher (1 s.h.)
Introduction to Microsoft Publisher 2002 demonstrates layout and design techniques to create brochures, newsletters, and publish a website to the Internet. This course has been designated as a pass/no pass course. (5-20) *Equivalent to 15-244, BUSN-252.*

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 Kompozer and Weebly 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-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. 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)

BCA-729 Search Engine Optimization (1 s.h.)
Prerequisite: CIS-210, Web Development I. There is nothing more useless than having the link to your website show up on page 417 of the Google search results. Learn the tricks to getting your page on the first couple pages instead of out of the reach of all of your users. (15-0)

BCA-775 JavaScript Programming for the Web (1 s.h.)
Prerequisite: CIS-210, Web Development I. Creating web pages in HTML is only the beginning. By adding JavaScript to the page, the interface comes alive, interacting with the viewer, modifying page content, and making the Internet a more enjoyable experience. Learn the basics of this powerful language and bring your site to the next level. (15-0)

BCA-778 AJAX Basics (1 s.h.)
Prerequisite: CIS-210, Web Development I, and BCA-775, JavaScript Programming for the Web. Users love to have interactive, responsive web experiences. HTML, CSS, and JavaScript go a long way toward making sites truly dynamic, but AJAX puts them over the top. Learn this exciting way to ensure a totally interactive experience for the web user. (15-0)

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.)
Corequisite: 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.)
Corequisite: CHM-153, College Chemistry I, or CHM-166, General Chemistry I, or permission of instructor. 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, the diversity of life, and the structure and function of organisms. (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: BIO-102, Introductory Biology, or HSC-150, Body Structure and Function, highly recommended. 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 required laboratory activities. (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. This course should be taken after taking BUS-136 Creativity, Innovation & Opportunity Analysis. (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. This course should be taken prior to taking BUS-134 The Successful Entrepreneur. (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-159 Internet Law, Copyright and Computer Ethics (1 s.h.)

The ever-evolving world of the Internet is filled with unseen traps and speed bumps. Many of these obstacles can be avoided with the right knowledge. Internet Law, Copyright and Computer Ethics is not designed to make you a lawyer or even totally understand all the laws. This course is designed to make you aware of some of the more important things to be aware of, keeping you out of trouble. (15-0)

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 course must be completed prior to taking the Iowa real estate licensing exam to become a Real Estate Salesperson. During the course, you will learn the Iowa Real Estate Commission prescribed course of study. 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. Effective January 1, 2009, an additional 36 hours of coursework (non-credit) are needed before you can apply for your real estate license (Listing Practices - 12 hours, Buying Practices - 12 hours, Developing Professionalism and Ethical Practices - 12 hours) (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: 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: 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.)

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. Additional topics may include discussions on gasses and energy. 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-132 Introduction to Organic and Biochemistry (4 s.h.)

Prerequisite: CHM-122, Introduction to General Chemistry, CHM-153 College Chemistry I, or CHM-166 General Chemistry I. Basic elements of organic chemistry and biochemistry including alkanes and their derivatives, carbohydrates, lipids, proteins, and enzymes, chemistry of cell metabolism, and chemistry of heredity. (45-30)

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, reaction equations, chemical calculations, electron-transfer (oxidation-reduction) reactions, and electrochemical cells. 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, and, as time permits, introductions to organic chemistry, biological chemistry, and nuclear 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 and 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, nuclear chemistry, and an introduction to organic compounds 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 some major classes of organic compounds emphasizing nomenclature, molecular structure, stereochemistry, reaction mechanisms and synthesis. Laboratory work introduces standard procedures of distillation, recrystallization, solvent extraction, polarimetry, chromatography, and computer-aided molecular modeling. (45-60) Equivalent to 70-274, CHEM-220.

CHM-273 Organic Chemistry II (5 s.h.)

Prerequisite: CHM-263, Organic Chemistry I. Introduction to electron delocalization and its effect of the stability and reactivity of organic compounds. Substitution and elimination reaction mechanisms will be described and used to explain the chemistry of some important classes of organic compounds. Students will be introduced to the technique of molecular structure determination by the analysis of infrared and nuclear magnetic resonance spectra. Laboratory work includes synthesis of organic compounds and their analysis by infrared spectroscopy, gas chromatography, and molecular modeling software programs. (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-153 Data Structures (4 s.h.)

Prerequisite: CIS-125, Introduction to Programming Logic with Language. Students will study functional decomposition. Students will learn the data structures and accompanying algorithms that are most fundamental to computer science discipline and analyze various implementations of each. (60-0)

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-157 Beginning iPhone Development (3 s.h.)

Are you a programmer looking for a new challenge? Does the idea of creating applications for the iPhone sound like a cool way to make some extra money? Learn to design and implement iPhone applications from concept through completion, then post them in iTunes and let the downloads begin. (45-0)

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 sim-

ple GUI elements. Use of the java.awt components, event-handling model, containers, and layout managers will also be emphasized. File handling techniques and multithreading will be presented, along with JavaBeans. Applications and applets will be built from button up to facilitate in deeper understanding of the concepts used in OOP. (60-0) *Equivalent to 15-204, ISTS-220.*

CIS-210 Web Development I (3 s.h.)
This course covers comprehensively the latest version of HTML. Students will learn good coding practices and be introduced to web development tools and FTP programs. Students will also be introduced to CSS (Cascading Style Sheets), image management, browser helper applications, and basic JavaScript. (45-0) *Equivalent to 15-169, ECOM-110.*

CIS-232 Web Development II (1 s.h.)
Prerequisite: CIS-210, Web Development I. There are many ways to turn simple websites into powerful, full-featured sites. Web Development II focuses on some of the most popular website additions, including updatable calendars, threaded discussions, shopping carts, and more. (15-0)

CIS-246 Intermediate Testing Concepts (4 s.h.)
Prerequisite: CIS-155, Introduction to Video Game Testing. 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 (2 s.h.)
Prerequisite: CIS-246, Intermediate Testing Concepts. Instruction in testing automation, capture playback testing, performance testing, regression testing and defect triggers. (30-0)

CIS-332 Database and SQL (3 s.h.)
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.*

CIS-620 Bot Programming for Game and Application Automation in Windows (1 s.h.)
Prerequisite: CIS-125, Introduction to Programming Logic with Language. Instruction in programming bots to perform automation for games and software applications in Windows. (15-0)

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 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; construction 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 tools; power tools; printreading; builders level, transit, and laser; scaffolding; and rigging. 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 canoping 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.)
This competency-based course prepares students for entry-level positions in the cabinetmaking 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, 80-291.*

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.)
Prerequisite: CRJ-100, Introduction to Criminal Justice. 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-227 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.*

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. (45-0) *Equivalent to 20-101, EDUC-101.*

EDU-219 Field Experience and Seminar (1 s.h.)
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. Through this field experience, the students will get a realistic view of being a teacher and will be able to make an informed decision as to whether or not teaching is a good career choice. 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-236 Young Adult Literature (3 s.h.)
Prerequisite: ENG-102, Composition & Speech I, ENG-103, Composition & Speech II, and EDU-216, Introduction to Teaching preferred (may be taken concurrently). This course is designed to discuss, evaluate, and select literature written for adolescents

(grades 6-12). Types of literature and methods of utilization and evaluation for use in upper elementary, mid-level, and high schools will be addressed. An emphasis on teaching literature will be a component of this course. Purposeful school visitations will provide practical experience. (30-30)

EDU-242 Classroom Assessment (2 s.h.)
Prerequisite: EDU-216, Introduction to Teaching. This course is an introduction to the assessment process for classroom teachers. It will focus on the interaction between assessment and instruction, formative and summative assessment, development and use of teacher-constructed assessments, purposes and interpretation of standardized assessments, and grading and communicating about student performance. (30-0) *Equivalent to 20-110, EDUC-210.*

EDU-246 Including Diverse Learners (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. 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 and the classroom. (45-0) *Equivalent to 20-120, EDUC-220.*

EDU-250 Educational Technology and Design (3 s.h.)
Prerequisite: None; however, prior education courses are recommended. The production of instructional media/computer technology and their relationship to educational strategies within an instructional design framework. Course activities include the planning, design, and production of media and the operation of hardware and software for educational use. Students will be exposed to various ways of thinking about educational media and the messages they deliver. The course provides students with experiences that enable them to integrate technology resources to support clearly defined learning objectives. (30-30) *Equivalent to 20-195, EDUC-195.*

EDU-290 Education Capstone Seminar (1 s.h.)
Corequisite: Enrolled in the Elementary Education Learning Community which consists of the following courses: BIO-123, Inquiry Into Life Science; EDU-242, Classroom Assessment; EDU-246, Including Diverse Learners; and MAT-154, Math for Elementary Teachers II; 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)

EGR-100 Engineering Orientation (1 s.h.)
Introduction to the profession of engineering and preparations for professional employment. Considerations of engineering academic programs and planning an engineering curriculum. Discussion of the ethics of the engineering profession and introduction to case studies. Opportunities to interact with local engineers. Information concerning college policies, procedures, and resources. This course has been designated as a pass/no pass course. (15-0)

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-134, Trigonometry and Analytic Geometry; or MAT-165, Calculus. 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.)
 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 MAT-165 Calculus. 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.*

EGT-400 Project-Lead-The-Way -- Introduction to Engineering Design (3 s.h.)
 This course uses a design development process while enriching technical and engineering problem-solving skills; students create and analyze models using specialized computer software (AutoCAD Inventor). (16-64)

EGT-410 Project-Lead-The-Way -- Principles of Engineering (3 s.h.)
 Prerequisite: EGT-400, Project-Lead-The-Way -- Introduction to Engineering Design, is recommended, but not required. This course explores technology systems and manufacturing processes using the methodology of project-based engineering problem solving. Learning activities explore a variety of engineering disciplines and address the social and political consequences of technological change. (16-64)

EGT-420 Project-Lead-The-Way -- Digital Electronics (3 s.h.)
 Prerequisite: EGT-400, Project-Lead-The-Way -- Introduction to Engineering Design, and EGT-410, Project-Lead-The-Way -- Principles of Engineering, are recommended, but not required. This course teaches applied logic through work with electronic circuitry, which students also construct and test for functionality. (16-64)

EGT-450 Project-Lead-The-Way -- Computer Integrated Manufacturing (3 s.h.)
 Prerequisite: EGT-400, Project-Lead-The-Way -- Introduction to Engineering Design, and EGT-410, Project-Lead-The-Way -- Principles of Engineering, are recommended, but not required. This course enhances computer modeling skills by applying principles of robotics and manufacturing automation to the creation of models of three-dimensional designs. (16-64)

EGT-460 Project-Lead-The-Way -- Civil Engineering and Architecture (3 s.h.)
 Prerequisite: EGT-400, Project-Lead-The-Way -- Introduction to Engineering Design, or EGT-410, Project-Lead-The-Way -- Principles of Engineering, or consent of instructor. This course introduces students to the interdependent fields of civil engineering and architecture. Students learn project planning, site planning, and building design. (15-60)

EGT-470 Project-Lead-The-Way -- Engineering Design and Development (3 s.h.)
 Prerequisite: EGT-400, Project-Lead-The-Way -- Introduction to Engineering Design, and EGT-410, Project-Lead-The-Way -- Principles of Engineering, plus one of the following courses: EGT-420, Project-Lead-The-Way -- Digital Electronics, or EGT-430, Project-Lead-The-Way -- Aerospace Engineering, or EGT-440, Project-Lead-The-Way -- Biotechnical Engineering, or EGT-450, Project-Lead-The-Way -- Computer Integrated Manufacturing, or EGT-460, Project-Lead-The-Way -- Civil Engineering and Architecture. This course is a research course that requires students to formulate the solution to an open-ended engineering question. With a community mentor and skills gained in their previous courses, students create written reports on their applications, defend the reports, and submit them to a panel of outside reviewers. (16-64)

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.)
 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. (15-31) *Equivalent to 96-157, EMST-815.*

ELT-170 Introduction to PLC's (3 s.h.)

Introduction to programmable logic controllers (PLC's) using computer simulation of the Allen Bradley and RSLogix 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-333 Analog and Digital Electronics (4 s.h.)

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. Computer simulation of the devices under study is covered. Both circuit analysis and measurement techniques using meters and oscilloscopes are stressed. This course is offered in an instructor-supervised/student-paced format. Students enrolled in this course should expect to spend a minimum of 90 hours in the Electromechanical Systems Technology Lab to complete the course. (15-90)

ELT-382 Electronic Circuit Analysis (3 s.h.)

Prerequisite/Corequisite: MAT-770, Applied Math, and MAT-771, Applied Math II. Study of the nature of electricity involving both direct and alternating current. DC circuit analysis utilizing more advanced techniques such as: superposition, Thevenin's and Norton's theorems. AC circuit analysis involving RL, RC, and RLC circuits, inductive and capacitive reactances, resonance, and transformer fundamentals. Computer circuit simulation of both DC and AC circuits is stressed along with an application of electronic test equipment; oscilloscopes, meters, and power supplies. This course is offered in an instructor-supervised/student-paced format. Students enrolled in this course should expect to spend 75-90 hours (5-6 hours/week) in the Electromechanical Systems Technology Lab to complete the course. (15-60) *Equivalent to EMST-702, 91-175.*

ELT-550 Analog Devices (4 s.h.)

Prerequisite: ELT-382, Electronic Circuit Analysis. Study of diodes, bipolar transistors and field effect transistors (JFETs and MOSFETs) as they are used in both AC and DC electronic circuits. Applications such as power supplies, switching circuits and amplifier circuits are covered. Advanced topics in electronic devices including operational amplifiers (op amps), active filters, thyristors, and voltage regulation are covered. Practical circuit analysis of the devices under study is covered. Computer simulation of the devices under study is covered. Both circuit analysis and measurement techniques using meters and oscilloscopes are stressed. This course is offered in an instructor-supervised/student-paced format. Students enrolled in this course should expect to spend 100-120 hours (7-8 hours/week) in the Electromechanical Systems Technology Lab to complete the course. (15-91) *Equivalent to EMST-711, 91-179.*

ELT-710 Computer Automated Manufacturing (3 s.h.)

Prerequisite/Corequisite: ELT-790, Fluid Power and ELT-124, Advanced PLCs and System Integration. Capstone projects in Electromechanical Systems Technology: project identification, planning, and implementation, as well as, group dynamics, project structure, and troubleshooting techniques. Projects may include, but are not limited to automation, control, manufacturing, or educational hardware for program use. The integration of robots, instrumentation, computers, and programmable logic controllers, human/machine interface, communications, and other industrial systems. (15-65) *Equivalent to EMST-816, 91-206.*

ELT-734 Industrial Instrumentation (4 s.h.)

Prerequisite/Corequisite: ELT-170, Introduction to PLC's; ELT-309, Digital Circuits. The student studies modern instrumentation techniques as they apply to the manufacturing environment and

uses industrial sensors, transducers, and related components. Instrumentation labs use a variety of control techniques and may include RSLogix500, DeviceNet, and Panel Builder. The labs are self-paced but students should expect to spend 5-6 hours/week in the lab. Lectures are scheduled at a specific time every week. (15-90) *Equivalent to EMST-817, 91-207.*

ELT-745 Maintenance Shop Operations (3 s.h.)
Introduction to shop equipment generally found in the industrial maintenance environment. Instruction and practice with metal saws, drills, grinders, elementary welding and cutting, thread repair, anchors and fasteners. Study 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. (30-30) *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-114 Emergency Medical Responder (2 s.h.)
Prerequisites: 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; and provide evidence of current certification in the BLS Healthcare Provider course. This 45-hour emergency care course emphasizes life threatening emergencies, wounds and fractures, medical and environmental emergencies, and patient access and handling. Students will receive hands-on practice in preparation for state written and practical Emergency Medical Responder certification examinations. An additional 6 hours is required to complete the state practical and written examinations. (25-20)

EMS-201 Emergency Medical Technician (7 s.h.)
Prerequisites: 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; maturity of judgment, sound moral character and good health status is necessary to provide reasonable assurance that the student will meet the physical and mental demands of the occupation; provide evidence of current certification in the BLS Healthcare Provider course; physical examination required prior to beginning hospital and ambulance-riding clinical; and proof of immunizations and hepatitis B vaccine or waiver is required. This course provides the student with the necessary knowledge and skill to perform emergency care and transport. It includes a Preparatory Module, Function and Development of the Human Body Module, Pharmacology Module, Airway Management Module, Patient Assessment Module, Medical Emergencies Module, Shock Module, Trauma Module, Special Patient Populations Module and EMS Operations Module. 18 hours of hospital clinical and 12 hours of ambulance-riding clinical. Students will need to assess 6 trauma patients, 6 cardiac patients, and 6 medical patients. (70-60-30)

EMS-237 Advanced Emergency Medical Technician (8 s.h.)
Prerequisites: 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; maturity of judgment, sound moral character and good health status is necessary to provide reasonable assurance that the student will meet the physical and mental demands of the occupation; provide evidence of current certification in the BLS Healthcare Provider course; provide evidence of successful completion of certified State of Iowa or nationally certified EMT or EMT-Basic; physical examination is required prior to beginning hospital and ambulance-riding clinical; and proof of immunizations and hepatitis B vaccine or waiver is required. This course provides the student with the necessary knowledge and skill to perform Advanced Emergency Care and Transport. It includes a Preparatory Module, Vascular Access and Medicine Administration Module, Function and Development of the Human Body Module, Pharmacology Module, Airway Management Module, Patient Assessment Module, Medical Emergencies Module, Shock Module, Trauma Module, Special Patient Populations Module, and EMS Operations Module. 52 hours of hospital clinical and 48 hours of ambulance-riding clinical. Students will need to assess 30 trauma patients, 30 cardiac patients, 20 medical patients, 50 IV access administrations, 10 IV drug administrations, 10 inhaled drug administrations, 5 sub Q and IM drug administrations, and 15 sublingual administrations. (68-45-100)

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. Course work may include 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. Credit will not satisfy the requirement for an Associate Degree. 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. (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. (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. This course has been designated as a pass/no pass course. (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, includ-

ing 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 "Diarios de Motocicleta (Argentina)" and "Tapas (España)," 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. This course will cover basic technical terminology, an overview of software and equipment for web and graphic design and an introduction into imagery as a form of communication. 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-123 Principles of Illustration (3 s.h.)

Prerequisite: ART-120, Two-Dimensional Design, and ART-133, Drawing. 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 as well as digital processes. Skills in digital illustration programs such as Adobe Illustrator and Photoshop will also be developed. (45-0) *Equivalent to GRA-117.*

GRA-140 Digital Imaging (3 s.h.)

Introduction to image creation and manipulation using industry-standard software. The student will learn the basics of image production through a series of hands-on projects, each demonstrating a unique aspect of digital imagery. Students will produce images for print, the web, and video, demonstrating different techniques and skills for each. Specific areas of study include working with photos, color correction, product photography, and using scanners and cameras. (45-0)

GRA-158 Web Multimedia (3 s.h.)

An introduction to the creation of multimedia for use with Web pages, kiosks, and CD/DVD. Video camcorders, digital cameras, digital recorders, touch screens, and iPods will be utilized in conjunction with computer hardware and software for media creation and manipulation. Media covered in the course will include podcasting, streaming video, streaming audio, live broadcasts, and presentations. (45-0)

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 website 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-115, Graphic Design, and GRA-108, Visual Communication. Building upon the knowledge gained throughout the design 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.*

GRA-761 Dreamweaver Basics (1 s.h.)

Adobe Dreamweaver is an industry-standard website development tool. This course will focus on learning the tool correctly through the use of recorded demonstrations of actual product usage. Develop new skills or learn about the latest release in this online course. (15-0)

GRA-762 Flash Basics (1 s.h.)
Adobe Flash is an industry-standard animation tool. This course will focus on learning the tool correctly through the use of recorded demonstrations of actual product usage. Develop new skills or learn about the latest release in this online course. (15-0)

GRA-763 Fireworks Basics (1 s.h.)
Adobe Fireworks is a powerful prototyping tool for generating websites and application interfaces. This course will focus on learning the tool correctly through the use of recorded demonstrations of actual product usage. Develop new skills or learn about the latest release in this online course. (15-0)

GRA-764 Illustrator Basics (1 s.h.)
Adobe Illustrator is an industry-standard vector-based drawing tool. This course will focus on learning the tool correctly through the use of recorded demonstrations of actual product usage. Develop new skills or learn about the latest release in this online course. (15-0)

GRA-765 InDesign Basics (1 s.h.)
Adobe InDesign is an industry-standard page layout tool. This course will focus on learning the tool correctly through the use of recorded demonstrations of actual product usage. Develop new skills or learn about the latest release in this online course. (15-0)

GRA-766 Photoshop Basics (1 s.h.)
Adobe Photoshop is the industry-standard in photography and graphic image creation. This course will focus on learning the tool correctly through the use of recorded demonstrations of actual product usage. Develop new skills or learn about the latest release in this online course. (15-0)

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.)
Prerequisite: HCR-115, Residential 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.)
Prerequisite: 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.)
Prerequisite: HCR-115, Residential Heating Systems. Major emphasis is on four basic types of control systems: pneumatic, electronic, electromechanical, and digital as applied to residential and commercial heating and air-conditioning practices. (30-60)

HCR-807 Controls II (3 s.h.)
Prerequisite: HCR-806, Controls I. 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.)
Prerequisite: HCR-150, Commercial Heating Systems. This course utilizes the knowledge base students have gained throughout the program to create a heating and cooling system 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-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: Must be employed in: (1) a 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; OR (2) a 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; OR (3) an 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. Must also have an 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-190 Skills and Safety in Industry (1 s.h.)
This course is designed to acquaint the student with the proper personal and shop safety procedures needed to function in an industrial lab setting. In addition to the safety, students will also receive instruction on first aid in an emergency situation, as well as computing skills needed to be successful in an industrial setting. (7.5-15)

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-101 Introduction to Literature (3 s.h.)
Prerequisite: ENG-102, Composition and Speech I, or ENG-105, Composition I, or comparable course or approval of instructor. An introduction to literature through major genres such as poetry, drama, and fiction. This course will focus on helping students develop skills for reading, interpreting, and critique through group discussion, oral presentation and writing. (45-0)

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-622 Medical Assistant Practicum (6 s.h.)
An eight-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, nurse, and the instructor/coordinator. 225 clock hours are completed in the clinical setting. An additional 15 clock hours are completed on campus as a review for the national certification examination. This course has been designated as a pass/no pass course. (15-225) *Equivalent to 90-208, MEDA-720, MAP-616.*

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)

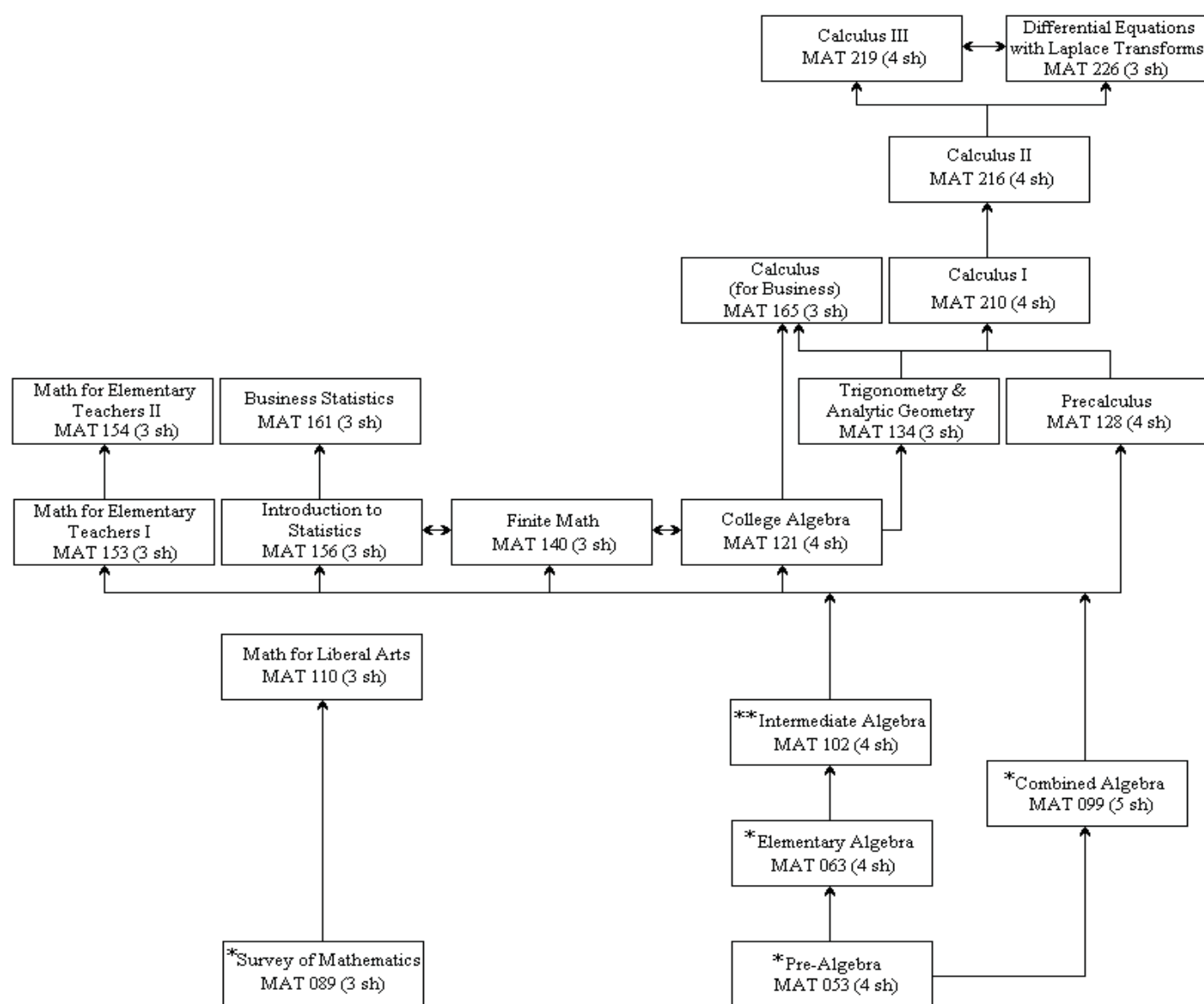
MAT-030 Enrich Math I (2 s.h.)
Prerequisite: Consent of instructor. This Enrich course will focus on strategies that enable students to understand and apply mathematics in their daily lives, at work, and in their leisure hours. Credit earned will not satisfy the requirements for an Associate Degree and 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 Associate 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 course is intended to prepare students for an entry-level math course such as Elementary Algebra or Applied Math. The course covers basic computational skills with whole numbers, fractions, decimals, percentages, and integers. 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 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.*



*No Credit towards degree
 **Elective Credit only

North Iowa Area Community College Mathematics Division Course Flow Chart

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, algebra, 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-099 Combined Algebra (5 s.h.)

Prerequisite: MAT-053, Pre-Algebra, with a grade of B or higher; or a COMPASS Pre-Algebra score of at least 76 and a COMPASS Algebra score of at least 40; or an ACT Math score of at least 18; or permission of the instructor. This course will prepare the student for college algebra or equivalent course work. Topics include properties of real numbers, linear equations and inequalities, graphs of polynomial functions, exponents, factoring, system of equations and inequalities, polynomial and rational expressions, radicals, complex numbers and quadratic equations. This course may not be used to satisfy core requirements. (75-0)

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 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. Math for Liberal Arts provides a survey of mathematics topics that includes sets, logic, statistics, number theory, geometry, critical thinking skills, the metric system, 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-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. (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. (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-153 Math for Elementary Teachers I (4 s.h.)

Prerequisite: MAT-102, Intermediate Algebra, with a grade of C or higher; or ACT Math score of at least 21; or COMPASS Algebra score of at least 56. 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 rational numbers, operating with rational numbers, fractions and decimals, probability, and statistics. (60-0).

MAT-154 Math for Elementary Teachers II (4 s.h.)

Prerequisite: MAT-153, Math for Elementary Teachers I, with a grade of C or higher, or permission of instructor. 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 algebraic thinking, geometry, measurement, reasoning and proof, and technology in elementary classrooms. (60-0).

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. 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 cov-

ered. 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 (Business) (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 26. 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. 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: 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.)
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: MFG-245, Machine Theory and Operations I. 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, MRKT-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, MRKT-103.*

MKT-150 Principles of Advertising (3 s.h.)

The study of advertising process and its place in business and society. The course involves learning about the planning, creating and placement of advertising. The course also covers the topic of integrated promotion. (45-0) *Equivalent to 15-222, MRKT-102.*

MKT-160 Principles of Retailing (3 s.h.)

The study of the selling of goods and services to ultimate consumers, involving distribution, inventory control, site selection, pricing, and other topics pertinent to successful retail business operations. (45-0) *Equivalent to 90-125, RETL-701.*

MKT-170 Retail Buying (3 s.h.)

Buying duties and policies, how to buy, how much to buy, buying methods, source selection, price lines, and sales records. Product knowledge and analysis relative to the buying function and value analysis of products. (30-30) *Equivalent to RETL-801, 90-234.*

MLT-101 Introduction to Lab Science (2 s.h.)

This course introduces the basic concepts for education and career development in the field of laboratory science and the health care profession. Current health care systems and trends are emphasized along with the factors having current and future impact on medical laboratories. The organization and role of the clinical laboratory are explored, as well as medical ethics and conduct, employment opportunities, and professional organizations. (30-0) *Equivalent to PHYS-100, 70-100.*

MLT-120 Urinalysis (3 s.h.)

This course provides the foundation for the study of urine formation and its assessment along with the determination of the physical, chemical, and microscopic properties of urine in normal and abnormal states. Objectives also included are the development and evaluation of body fluids including cerebrospinal, synovial, serous, and amniotic fluids. (30-30) *Equivalent to 70-249, HEAL-105.*

MUA-120A-B Applied Piano (1-2 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-148A-B Applied Instrumental (1-2 s.h.)
Individualized instruction in wind or percussion instrument performance through the development of strong technical foundation and well-rounded musicianship. Instructional materials include a repertoire of traditional and contemporary literature. Lessons are available for the following instruments: Flute, Oboe, Clarinet, Bassoon, Saxophone, Trumpet, French Horn, Trombone, Euphonium, Tuba, Percussion, and Drum Set. Students may register for 1 credit hour (one 30-minute lesson per week) or 2 credit hours (one 60-minute lesson per week). This course is repeatable to a maximum of 8 credit hours. Must have instructor consent for 2 credit hours. (7.5 to 15-15 to 30)

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 (one 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-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 (one 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-120 Music Theory I (3 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, chord inversions, figured bass harmonization and principles of part writing based on 18th century models. Students will meet three days a week for one hour. (45-0)

MUS-121 Music Theory II (3 s.h.)
Prerequisite: Final grade of C or better in MUS-120, Music Theory I, or instructor consent. This course 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. Students will meet three days a week for one hour. (45-0)

MUS-130 Aural Skills I (2 s.h.)
Prerequisite: Previous instrumental or vocal music experience. This course introduces fundamentals of the aural skills, ear training, and sight singing. Students will meet two days a week for one hour. (15-30)

MUS-131 Aural Skills II (2 s.h.)
Prerequisite: Final grade of C or better in MUS-130, Aural Skills I. This course will provide continued development of ear training and sight singing skills. Students will meet two days a week for one hour. (15-30)

MUS-132 Aural Skills III (2 s.h.)
Prerequisite: Final grade of C or better in MUS-131, Aural Skills II. This course will provide continued development of ear training and sight singing skills. Students will meet two days a week for one hour. (15-30)

MUS-133 Aural Skills IV (2 s.h.)
Prerequisite: Final grade of C or better in MUS-132, Aural Skills III. This course will provide continued development of ear training and sight singing skills. Students will meet two days a week for one hour. (15-30)

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-174 North Iowa Choral Society (1 s.h.)
The North Iowa Choral Society, 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. The course is repeatable for credit to a maximum of 4 credits. (20-0)

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-220 Music Theory III (3 s.h.)
Prerequisite: Final grade of C or better in MUS-121, Music Theory II, or instructor consent. Students will develop analytical and written skills in music covering the Renaissance through the early Classical period. Students will meet three days a week for one hour. (45-0)

MUS-221 Music Theory IV (3 s.h.)
Prerequisite: Final grade of C or better in MUS-220, Music Theory III, or instructor consent. Students will develop analytical and written skills in music covering the late Classical through the 20th Century. Students will meet three days a week for one hour. (45-0)

NET-112 Home/Office Computer Management (3 s.h.)
In this easy-tech, hands-on course, computer users perform and record practical, specific steps and procedures for setting up, configuring, and maintaining Small Office or Home Office (SOHO) PCs and networks. Learn to identify, install, and configure disk drives, RAM, CD/DVD drives, and peripherals such as scanners, cameras, and PDAs. Upgrade or update your operating system (OS) to keep current with capabilities and security. Setup, configure, and maintain secure wired and wireless consumer routers to connect local equipment and the Internet. Learn to setup, maintain, and navigate an organized file and folder structure along with downloading and/or installing software applications. (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-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-215 CISCO Network Security (CCNA Security) (4 s.h.)
 Prerequisite: NET-201, Network LANs and WANs, and NET-613, Information Data Assurance, or permission of the instructor. Network Security (CCNA Security) equips students with knowledge and skills that can be applied toward entry-level specialist careers in network security. CCNA Security is a blended curriculum with both online and classroom learning. CCNA Security aims to develop an in-depth understanding of network security principles, as well as the tools and configurations available. The following tools are covered: 1) Protocol

sniffers/analyzers; 2) TCP/IP and common desktop utilities; 3) Cisco IOS software, Cisco VPN client; 4) Packet Tracer (PT); 5) Web-based resources. The predominant lab types are procedural, skills integration challenges, troubleshooting, and model building. The course goal is to prepare students to be able to implement, monitor and maintain a secure network. (60-0)

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-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 using Windows Vista. This course also addresses operating system interface controls; file system management; application management; network client configuration; and, operating system security. Concepts learned in this course lead toward the Microsoft Certified Technology Specialist Exam #70-620 Windows Vista Configuration. (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. Concepts learned in this course lead toward the Microsoft Certified Technology Specialist Exam #70-640 Windows Server 2008 Active Directory Configuration. (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 Technology Specialist Exam #70-642 Windows Server Network Infrastructure Configuration. (60-0) *Equivalent to 15-184, ISTS-121.*

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-107 Aerobic Circuit Training (1 s.h.)

This is an activity course designed to improve personal physical fitness through a combination of aerobic exercises and weight training. Students will learn a variety of aerobic activities along with proper use of different weight machines. This course will cater to individuals of all ages and fitness levels. (0-30)

PEA-113 Flatwater and River Canoeing (1 s.h.)

This course is an introductory course to teach beginning paddlers to safely and enjoyably canoe on lakes and gentle rivers. The course will focus on three areas: paddling skills, safety awareness, and technical rescue skill. The course will include a required extended river trip on a weekend. (4-22)

PEA-127 Beginning Jogging (1 s.h.)

A self-paced physical conditioning course that emphasizes cardiovascular fitness through walking and jogging. The primary purpose is to introduce novice exercisers to the benefits of walking and jogging for the enhancement of health and fitness. Information on new trends and topics of fitness will be covered and a walking/jogging program will be performed throughout the term. This course is a physical activity-based course. By the end of the term, a student should be able to jog 30 minutes. (8-15)

PEA-129 Spinning (1 s.h.)

This course introduces students to a fun, low-impact, cardiovascular workout using spin bicycles to improve current health and fitness levels. Music will motivate you while you enjoy hills, flats, intervals, sprints, and more. Make sure to bring a towel and water bottle. This course is designed for men and women of all ages. (0-30)

PEA-130 Downhill Skiing (1 s.h.)

Fundamentals of downhill (alpine) skiing with a combination of classroom discussion, demonstration, and on-the-slope skiing lessons and evaluation. The class meets for nine hours of classroom instruction and will have twelve hours of ski instruction. Students will be required to sign up for two one-day, weekend ski trips with the class during the semester, and will ski with the class during the lesson time. Equipment rental may be required. This course will not cover snowboarding, nor cross country (Nordic) skiing. This course is repeatable up to 2 semester hours of credit. (9-12)

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.)

Prerequisite/Corequisite: PEA-146, Physical Fitness I. 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-158 Scuba Diving I (1 s.h.)

Upon completion of this course, the student will demonstrate knowledge of skills and concepts related to beginning scuba diving. The course will include lecture and lab (pool and open water dives). An assessment of swimming abilities will be conducted at the first session. Upon completion of this course, the student will also be eligible for NAUI (National Association of Underwater Instructors) certification for an additional fee. Assessed fees for this course include equipment rental, textbook and pool rent. (17-20)

PEA-174 Tennis I (1 s.h.)

This class will involve learning the basic tennis skills, rules, and strategies for singles and doubles play. Students will be encouraged to observe match play from the Australian Open on television or videotape. Attendance at a high school AA tennis meet will also be included in the course. A written examination will be given at the end of class. (0-30)

PEA-187 Weight Training I (1 s.h.)

Lecture and laboratory course designed to cover the basic principles and skill techniques involved in weight training. This course will provide an overview of strength training principles, types of strength, systems of resistance training as well as core training principles, and postural considerations. (8-15)

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.*

PEA-191 Pilates (1 s.h.)

Pilates is an activity-based course designed to improve one's core strength, tone muscles, increase flexibility, and reduce stress. Mats and stability balls are provided. This course is designed for men and women of all ages. (0-30)

PEA-287 Weight Training II (1 s.h.)

Prerequisite: PEA-187, Weight Training I. Lecture and laboratory course designed to increase knowledge, understanding, and skill techniques involved in weight training. This course is a continuation of Weight Training I, and will incorporate flexibility training, balance and coordination, and speed and agility training. (8-15)

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-161 Sports Officiating (3 s.h.)

Designed to teach the student the rules of officiating interscholastic sports. Emphasis will be upon rule interpretation and proper mechanics of officiating. (45-0)

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-144 Human Movement Science (3 s.h.)

The content of this course will cover anatomy and physiology of the human body focusing on the muscular, skeletal, and the cardiovascular systems. This course focuses on the application of the skeletal and neuromuscular systems to human movement, with special attention to the attachments and actions of the muscles. This course is for students interested in a field in exercise science such as: personal training, strength and conditioning, athletic training, fitness, wellness, and physical education. (45-0)

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-191 Sports Nutrition (3 s.h.)

This course will focus on basic human nutrition along with nutritional needs for athletes and/or physically active individuals. Areas of focus will be on carbohydrate loading, hydration, supplement use, fad diets, eating disorders, maintaining healthy body weight, and ergogenic aids. (45-0)

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)

PEH-261 Physical Activity for Health and Fitness (3 s.h.)

Prerequisite: PEH-111, Personal Wellness. Identification and programming of physical activities and nutrition lifestyle practices. Emphasis on the role of physical activity and nutrition in the enhancement of health and fitness in others. Integration of experiential learning activities with cognitive subject matter. (45-0)

PEH-908A-C Cooperative Education (1-3 s.h.)

Prerequisite: permission of Cooperative Education instructor. Cooperative Education provides work experience related to wellness, exercise science, leisure service, and/or physical education. This course is primarily designed to provide students with supervised work experience within their field of interest. Work experience hours are arranged, the number of hours are determined on the basis of one credit hour equals 60 hours of supervised work experience. (0-60 to 180)

PET-110 Introduction to Athletic Training (2 s.h.)

Introduction to the field of athletic training with emphasis on the history of the National Athletic Training Association, certification guidelines, policies and procedures, risk management, roles and responsibilities of athletic trainers, and common illnesses and injuries. (30-0)

PET-135 Personal Trainer (3 s.h.)

This course is designed to provide knowledge and prepare the student to become a nationally certified personal trainer. The focus of this course will be on the components of personal training. Students will also have the opportunity to train clients throughout the semester. Upon completion of this course, the student will have the necessary knowledge to apply for the ACE personal trainer certification exam. (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-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.*

PHR-105 Introduction to Pharmacy Technician (3 s.h.)
 Corequisite: HSC-120, Medical Terminology I. This course is designed to provide the student with basic knowledge about community and institutional pharmacy practice. Topics include: orientation to technician duties, medical terminology, introduction to institutional pharmacy practice, introduction to community/ambulatory pharmacy practice, and pharmacy calculations. Students taking this course must have met pre-admission math requirements. Students must attain a C or higher grade to proceed with other pharmacy courses. (45-0)

PHR-120 Pharmacology for Pharmacy Technicians (3 s.h.)
 Prerequisites: HSC-120, Medical Terminology I, and PHR-105, Introduction to Pharmacy Technician, with a grade of C or higher, or permission of Division Chair. This course is designed to introduce the student to the basic concept of pharmacology, as well as the biological factors affecting the actions of drugs for each pharmacological classification. This course is designed for the pharmacy technician and is the second of three courses in the Pharmacy Technician Certificate program. The course is also appropriate to update the knowledge of health care professionals who participate in the delivery of medications in a variety of settings. (45-0)

PHR-941 Pharmacy Technician Practicum (1 s.h.)
 Corequisite: PHR-120, Pharmacology for Pharmacy Technicians.
 Prerequisites: HSC-120, Medical Terminology I; PHR-105, Introduction to Pharmacy Technician, with a grade of C or higher; and compliance with math requirements. This course will expose the student to the pharmacy environment and allow hands on experience with computer skills required to fill prescriptions in a pharmacy setting. This experience will expose the students to the equipment normally found in the pharmacy. The student will learn how to correctly measure and weigh out pharmaceutical ingredients used in extemporaneously compounding prescriptions using pharmacy graduates and Class A and electronic balances. The student will use their knowledge of pharmacy math in making calculations to assist in these procedures. The student will use the pharmacy lab to simulate the prescription filling process. Lab experience will include receiving the prescription from a patient, inputting the information into the computer, pulling the drugs from the inventory, counting or measuring the ingredients and labeling the container. The student will become familiar with the reference materials available in a pharmacy and how to use these resources to obtain necessary drug information. After completion of the lab portion, the student will be assigned to a community or institutional pharmacy and required to satisfactorily complete a check-list of duties that are normally performed by a technician. This course has been designated as a pass/no pass course. The student must complete PHR-120, Pharmacology for Pharmacy Technicians, with a grade of C or higher to receive a passing grade in this course. (0-60)

PHS-125 Physical Science (4 s.h.)
 Prerequisite: High school Algebra or equivalent. An introductory, college-level, one-semester transfer course intended to meet general education and elementary education certification requirements. At present, this course uses the Physical Science & Everyday Thinking curriculum by Goldberg, et al. This course, like other general education science division courses, addresses the general education skills of scientific literacy and critical thinking. (45-30) *Equivalent to 70-114, PHYS-101.*

PHY-106 Survey of Physics (4 s.h.)
 Corequisite: MAT-102, Intermediate Algebra, or equivalent. This is an introductory, one-semester transfer course treating a selection of important topics in physics. The current offering emphasizes light, electricity and magnetism, the wave-particle duality of quantum mechanics, and the Special Theory of Relativity. In connection with these themes, topics such as force and the motion of particles; the concept of energy; the nature and properties of waves; and the history of physics, are also considered. In this version of the course, laboratory work emphasizes optics and electricity but may touch on other areas. This course, like other general education science division courses, addresses the general education skills of scientific literacy and critical thinking. A previous physics course is not required. (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. First semester of a two-semester physics sequence relying on algebra, trigonometry, and analytic geometry, but not employing calculus. Intended for students whose program requirements may be satisfied by a physics course of this level. Emphasizes kinematics, vectors, dynamics, conservation laws, simple harmonic motion, and rotational motion. This course, like other general education science division courses, addresses the general education skills of scientific literacy and critical thinking. A previous physics course may be helpful but is not required. (45-30) *Equivalent to 70-280, PHYS-120.*

PHY-172 College Physics II (4 s.h.)
 Prerequisite: PHY-162, College Physics I, or equivalent, or permission of instructor. Second semester of a two-semester physics sequence relying on algebra, trigonometry, and analytic geometry, but not employing calculus. Intended for students whose program requirements may be satisfied by a physics course of this level. Emphasizes electric fields and electricity, electric circuits, and magnetic fields and magnetism; also includes material on waves and optics, and on additional topics as time allows. This course, like other general education science division courses, addresses the general education skills of scientific literacy and critical thinking. (45-30) *Equivalent to 70-281, PHYS-121.*

PHY-212 Classical Physics I (5 s.h.)
 Corequisite: MAT-210, Calculus I, or prior completion of MAT-210 Calculus I, or high school physics, or permission of instructor. First semester of a two-semester calculus-based sequence intended for students majoring in engineering, physics, chemistry, or other sciences. Emphasizes kinematics, vectors, dynamics, conservation laws, simple harmonic motion, and rotational motion. This course, like other general education science division courses, addresses the general education skills of scientific literacy and critical thinking. (60-30) *Equivalent to 70-282, PHYS-220.*

PHY-222 Classical Physics II (5 s.h.)
 Prerequisite: PHY-212, Classical Physics I, or equivalent, with a grade of C or higher, or permission of instructor. Corequisite: MAT-216, Calculus II, or prior completion of MAT-216, Calculus II. Second semester of two-semester calculus-based sequence intended for students majoring in engineering, physics, chemistry, or other sciences. Emphasizes electric fields and electricity, electric circuits, and magnetic fields and magnetism. It also includes mate-

rial on waves and optics, and on additional topics as time allows. This course, like other general education science division courses, addresses the general education skills of scientific literacy and critical thinking. (60-30) *Equivalent to 70-283, PHYS-221.*

PHY-720 Career Physics (4 s.h.)

Prerequisite: MAT-770, Applied Math I, 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.)

Corequisite: HSC-150, Body Structure and Function, and 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.)

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.)

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. A variety of psychological issues including learning, personality, moral behavior, and psychological well-being and life satisfaction across the lifespan are discussed. Examining the research in these areas allows students to understand and appreciate different perspectives on cultural, ethnic, and gender issues. (45-0) *Equivalent to PSYC-110, 80-230.*

PSY-223 Child and Adolescent Psychology (3 s.h.)

This course covers information relevant to the development of humans from the prenatal stages through adolescence providing an introduction to and survey of behavioral characteristics of individual development. Interwoven into each stage of development (infancy/toddlerhood, early childhood, middle childhood, and adolescence) are the affects of community, family, and school in the development of children and adolescence. (45-0) *Equivalent to 80-104, PSYC-204.*

PSY-241 Abnormal Psychology (3 s.h.)

Prerequisite: PSY-111, Introduction to Psychology. An introduction to the study of psychological disorders, with an emphasis on anxiety, mood, schizophrenia, personality, and substance-related disorders. The course includes understanding the personal dynamics of mental disorders and biopsychosocial factors involved in the assessment, etiology, and treatment. (45-0)

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.)
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: Acceptance into the PTA program. 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 informed in how to research physical therapy topics, on the importance of confidentiality and patient's rights, and will have an understanding of how to report abuse in the workplace. Students will develop an understanding of the impact an illness or disability has on the individual, will be instructed in documentation, and given much opportunity to work on their communication skills. Includes a unit on managing stress, how culture impacts patient care, and 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: Acceptance into the PTA program. 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 (and lab), with a grade of C- or higher. This course 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, with a grade of C or higher. This course presents overview of normal physical, cognitive, social, and emotional developmental processes which affect an individual throughout the life span. The course focus and emphasis is on normal physical 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: PTA-301, PTA Clinic I. This course 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: PTA-301, PTA Clinic I. 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-300, Introduction to the Clinic. Prerequisite/Corequisite: PTA-120, Kinesiology. This course 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: PTA-302, PTA Clinic II. 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 is 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-302, PTA Clinic II. 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.)
Prerequisite: PTA-302, PTA Clinic II. This course will provide information, discussion, and treatment considerations with neurologically-based diagnoses. Clinical manifestations and treatment considerations will be addressed with common neurological disorders with special emphasis on strokes or CVA. To enhance the students' understanding, typical treatment techniques, exercise programs, and treatment progression will be applied to lab scenarios with diagnoses covered. 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: PTA-302, PTA Clinic II. This course 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: PTA-401, PTA Clinic IV, or permission of instructor. This course will address all aspects of patient care in a physical therapy setting, including what is expected of a physical therapy

assistant at entry level practice. Discussion based, this 15-hour course will incorporate students' experiences from Clinic III/IV so that each student has time to process and consider these learning experiences. All aspects of patient care will be addressed and case studies will be reviewed to assist with problem solving skills. (15-0) *Equivalent to 90-217, PTAS-823.*

PTA-300 Introduction to the Clinic (1 s.h.)

Prerequisites: 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 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 to complex 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.)

Prerequisites: 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 all completed PTA courses 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.)

Prerequisites: PTA-150, Pathophysiology, PTA-162, PTA Assessment Procedures, and PTA-301, PTA Clinic I. Eighty-hour clinical occurs in the final two weeks of the third term. Skills, knowledge, and attitudes learned in all completed PTA courses 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: PTA-302, PTA Clinic II. Eight-week, full-time clinical experience. Skills, knowledge, and attitudes learned in all completed PTA courses 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: 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. This course has been designated as a pass/no pass course. (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 suggest 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-111 Success Seminar (1 s.h.)
 Prerequisite/Corequisite: For participants in the TRiO Student Support Services Program. Success Seminar 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.)
 This course is useful to any student in either semester. The focus is assisting in the development of effective study techniques and comprehensive skills necessary for independent learning and academic success. This course satisfies 2 credit hours of transferable elective credits toward an Associate degree. (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-144 Introduction to STEM Careers (1 s.h.)
 Introduction to STEM Careers is a one-hour seminar that gives students an opportunity to hear from professionals in Science, Technology, Engineering and Math (STEM) careers in North Iowa. The course will introduce students to different career options in the STEM fields and students will learn about various pathways to prepare for those professions. Students will also gain first hand experience by visiting a STEM industry. This course has been designated as a pass/no pass course. (15-0)

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. This course has been designated as a pass/no pass course. (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-199 College Essentials (1 s.h.)
 This course is designed for first-time college students and/or transfer students with less than 12 hours of credit. Areas included in this course are uses of Web Advisor, uses of NIACC e-mail, availability of campus resources, and strategies to deal with navigating the college experience. (15-0)

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: SOC-110, Introduction to Sociology, is 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-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)

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)

WTT-103 Introduction to Wind Energy (3 s.h.)

A basic study of the many facets of the wind industry. Study includes the history and development of the wind industry, wind industry terminology, types of wind turbines, economic and environmental impact of wind energy, future of wind energy, and other relevant topics. Students will have the opportunity to tour a wind farm. (45-0)



Student Handbook

STUDENT HANDBOOK

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ACADEMIC/DISCIPLINARY POLICIES

Academic Progress

(Note: In addition to this policy, students receiving financial aid are subject to the Financial Aid Satisfactory Academic Progress (SAP) Policy.)

North Iowa Area Community College requires all students to make satisfactory progress in order to remain in good standing. If a student fails to meet the standards of academic progress, the College intervenes in an effort to help by initiating academic probation or suspension. Students bear primary responsibility for their own academic progress and for seeking assistance. On-campus services available to the student through the Student Development Office include: academic, personal, and career counseling; tutoring; supplemental instruction; Student Support Services; Disability Services; and outside referrals to other services as needed. Academic progress is assessed at the end of each semester.

Grade Point Average Requirement

All students are required to earn a specific minimum grade point average (GPA) according to the number of credits for which they have attempted, as reflected in the table below:

| Cumulative Registered Credits | Minimum Required GPA |
|-------------------------------|----------------------|
| 0 - 15 | 1.60 |
| 16 - 30 | 1.80 |
| 31 or more | 2.00 |

Course Completion Requirement

In addition to the GPA requirement, students must complete at least 33% of the credits for which they have registered on a cumulative basis. Grades of F, I, W, and Q are treated as registered credits. These grades will negatively impact the student's percentage of completion. The completion rate is determined by dividing the cumulative number of completed credits (those with grades of A, B, C, D, P, T, and L) by the total number of registered credits (includes courses with grades of F, I, W, and Q). Audited and grade requital classes are not considered in this policy.

Academic Probation

Academic probation is a warning that a student's academic record may be endangered. A student who fails to earn the minimum GPA for his/her cumulative registered credits and/or has failed to complete 33% of their cumulative credits will be placed on academic probation for the following semester. Students are still eligible to enroll in classes while on academic probation. Students are encouraged to work with a counselor/academic advisor on developing an Academic Success Plan.

Probationary Review

If at the end of the probationary semester a student:

- Earns a cumulative GPA at or higher than the minimum required GPA and has a 33% or higher cumulative completion rate, the student returns to good academic standing.
- Earns a semester GPA of 2.00 or higher and/or a completion rate above 50%, but does not meet the cumulative requirements, the student will continue on probation.

• Earns a semester GPA lower than 2.00 and a cumulative GPA lower than the minimum required GPA, the student is suspended.

• If a student meets the cumulative terms for the standard that resulted in the probation, but fails to meet the other standard, the student will continue on probation.

The table below reflects the probationary process:

| If your current probation is a result of: | You earn the following the next semester: | And you earn the following the following cumulative: | Your status for the next semester will be: |
|---|---|--|--|
| GPA | 2.00 or higher | Minimum for credit level | Good standing |
| GPA | 2.00 or higher | Less than minimum for credit level | Probation |
| GPA | Less than 2.00 | Less than minimum for credit level | Suspension |
| Completion rate | 50% | 33% or higher of cumulative courses | Good standing |
| Completion rate | 50% | Less than 33% of cumulative courses | Probation |
| Completion rate | Less than 50% | Less than 33% of cumulative courses | Suspension |

Academic Suspension

Suspension occurs when a student is not eligible to enroll in classes as a result of not making academic progress for two or more consecutive semesters. Suspension begins for the semester immediately following the probationary semester and extends for the fall/spring semester the first time and for a year if a second suspension occurs. Suspended students are encouraged to use the period of suspension to consider the factors that have impeded their academic success and to plan their success strategies for the future.

(Note: Students may also be suspended for disciplinary reasons and for failure to comply with the Student Code of Conduct. This information is found in the Student Handbook at http://www.niacc.edu/catalog/catalog_11_12/1112StudentHandbook.pdf.)

How do I appeal my suspension? Should I appeal it?

Students are encouraged to appeal their suspension if it occurred because of unusual circumstances, such as injury, illness, death in the family, or other unexpected events. An appeal must clearly explain the circumstances that affected the student's academic progress and should include supporting documentation when applicable. An approved appeal is effective for the semester for which it was granted. A student who is suspended from enrollment and from receiving financial aid must submit two separate appeals. The appeal form can be obtained online or from the Student Development Office.

Getting Reinstated

A student may return to the College if his/her appeal has been approved or if the period of suspension has passed. A student reinstated for the semester will be considered to be on probation and his/her records will be reviewed at the end of the term. A student granted reinstatement must develop an Academic Success Plan

with a counselor before being allowed to enroll in the upcoming semester. To schedule an appointment, call 641-422-4207 or stop by the Student Development Office in AB104.

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 Dean of Student Development 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 Development 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 Dean of Student Development 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 and Student 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 and Student 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 and Student

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 and Student 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 and Student 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 and Student 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 Development staff member, and two full-time students selected by the College's Student Senate. The committee will be chaired by the Dean of Student Development.

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 Dean of Student Development 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 Dean of Student Development or the Vice President for Academic and Student 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 website 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 Dean of Student Development who will investigate the complaint under the Student Code of Conduct.
- B. Staff members should advise their immediate supervisor, the Vice President of Institutional Effectiveness and Organizational Development, 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 Dean of Student Development and shall include a summary of the expected testimony of each witness in support of the allegation.
- e. "Dean" means the Dean of Student Development.
- 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, racial or ethnic slurs, 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 Dean of Student Development receives information indicating that a student has committed a violation, the Dean shall investigate the alleged violation. After preliminary investigation, the Dean 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 Dean in connection with an alleged violation by a notice from the Dean personally served upon the student; provided, that nothing herein shall prevent the Dean 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 Dean intends to handle the allegation as a minor or major violation.

- c. The Dean may place on disciplinary probation a student who fails without good cause to comply with a notice ordering appearance, or the Dean may submit the matter to the Student Conduct Committee, or to the President.
3. Disposition
 - a. When the student appears before the Dean, whether informally or pursuant to notice, the Dean 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 Dean with a written request for a hearing on or before the third day following the refusal to accept administrative disposition. The Dean 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 Dean 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 Dean. 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 Dean or the student.
 - d. The Dean shall represent the College before the SCC and shall present evidence to support an allegation of a violation. The Dean 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 Dean, 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 Dean 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 Dean, 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 Dean shall present evidence in support of the alleged violation;
 4. The student shall present his/her defense;
 5. The Dean and the student may present rebuttal evidence, and shall have the right to make argument. The Dean 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 Dean of their finding. If the committee finds a violation, the student and the Dean 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 Dean of Student Development 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 Dean 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 Dean 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 Dean 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 Dean.
 - 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 Dean of Student Development, 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 responsibility.

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 music, video, audio, or software, or 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 website represents the College's programs, policies, and image to the world. Development of web 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.

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, downloading, or transferring of copyrighted music, video, audio, software (including operating systems, applications and games, databases, or code) or other licensed or copyrighted material.
- 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

NIACC BookZone

Textbooks and class supplies may be ordered or purchased from the NIACC Book Zone located in the Activity Center. The Book Zone can be reached by calling 641-422-4500. Students can also visit the BookZone website at www.niaccbookzone.com for further information.

Regular Summer Hours

May 9 - July 29, 2011, Monday-Friday 9:00 a.m. - 12:00 p.m.

Extended Summer Hours

May 9, 2011 - NIACC Summer Term I begins 8:30 a.m. - 6:00 p.m.

May 9, 2011 - BVU Term V begins 8:30 p.m. - 6:00 p.m.

May 24-26, 2011 - New Student Registration 9:00 a.m. - 3:00 p.m.

May 30, 2011 - Memorial Day Observed CLOSED

June 1-2, 2011 - New Student Registration 9:00 a.m. - 3:00 p.m.

June 6, 2011 - NIACC Summer Term II begins 9:00 a.m. - 2:00 p.m.

June 7-9, 2011 - New Student Registration 9:00 a.m. - 3:00 p.m.

June 21-23, 2011 - New Student Registration 9:00 a.m. - 3:00 p.m.

July 1, 2011 - Inventory CLOSED

July 4, 2011 - Fourth of July Holiday CLOSED

July 7, 2011 - BVU Term VI begins 4:30 p.m. - 6:00 p.m.

July 12-14, 2011 - New Student Registration 9:00 a.m. - 3:00 p.m.

July 18, 2011 - NIACC Summer Term III begins 9:00 a.m. - 1:00 p.m.

August 1-12, 2011 9:00 a.m. - 3:00 p.m.

Regular Fall Hours

Beginning August 15, 2011, Monday-Friday 8:30 a.m. - 3:00 p.m.

Extended Fall Hours

August 27-28, 2011 - Move-in Weekend 10:00 a.m. - 3:00 p.m.

August 29-31, September 1, 2011 7:30 a.m. - 6:00 p.m.

September 5, 2011 - Labor Day Observed CLOSED

September 6-8, 2011 8:30 a.m. - 5:00 p.m.

October 24, 2011 8:30 a.m. - 6:00 p.m.

Student Interim Break Hours

December 16, 2011-January 2, 2012 CLOSED

Regular Spring Hours

Beginning January 3, 2012, Monday-Friday 8:30 a.m. - 3:00 p.m.

Extended Spring Hours

January 17-19, 2012 - First Week of Term 7:30 a.m. - 6:00 p.m.

January 23-26, 2012 - Second Week of Term 8:30 a.m. - 5:00 p.m.

March 8, 2012 - BVU Term IV begins 8:30 a.m. - 6:00 p.m.

The Bookstore is closed on holidays and weekends.

Textbook Return Policy

Be sure to keep your NIACC BookZone receipt. Observe the Return 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 BookZone 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. - 6:00 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 Development Hours

Counseling Office Hours

Monday through Thursday 8:00 a.m. - 6:30 p.m.

Friday 8:00 a.m. - 4:30 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. - 1:30 p.m.

Friday 7:00 a.m. - 1:00 p.m.

Non-Academic Year (Summer)

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

Closed

Spring Break Week, Christmas-New Year, Campus Closings

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. An online library handbook is available. A student ID card is required to check out materials. ID cards are available in Student Development.

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 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 7-July 16, 2011)

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 10-May 28, 2011) and Summer Term III (July 19-August 11, 2011)

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.

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 Dean of Student Development.

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. To receive notification as a text message on your cell phone, please log on to the NIACC home page at www.niacc.edu and select the Current Students link, select the NIACCAIerts link and follow the directions to enroll. There is no cost to enroll and you will receive weather and emergency related notifications on your cell phone and as an e-mail.

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 |
| | Mason City | 1490 AM, 102.7 FM |
| KGLO/KSMA KIA/FOX | Mason City | 1300 AM, 98.7 FM |
| | Mason City | 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 a 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 a 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's report is available to current students and employees on the NIACC website: www.niacc.edu/admin/ss/campusafetyandsecurityweb.html. 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 2008 | FY 2009 | FY 2010 |
|-----------------------------------|------------|------------|------------|
| 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 | 0 | 0 | 1 |
| Motor Vehicle Theft | 0 | 0 | 0 |
| Arson | 0 | 0 | 0 |
| Negligent Manslaughter | 0 | 0 | 0 |

Criminal Offenses

| On-campus Residence Hall | FY 2008 | FY 2009 | FY 2010 |
|-----------------------------------|------------|------------|------------|
| 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 | 0 | 2 | 1 |
| Motor Vehicle Theft | 0 | 0 | 0 |
| Arson | 0 | 0 | 0 |
| Negligent Manslaughter | 0 | 0 | 0 |

**Disciplinary Actions/Judicial
Referrals - On-campus**

| | FY 2008 | FY 2009 | FY 2010 |
|-----------------------------|------------|------------|------------|
| <u>Crime</u> | | | |
| Liquor Law Violations | 21 | 22 | 26 |
| Drug Law Violations | 3 | 1 | 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 Dean of Student Development.

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 Dean of Student Development. 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.

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.

Weapons-Free Campus

NIACC is committed to providing a safe and secure learning and working environment. The use and possession of all firearms, ammunition, other dangerous weapons intended to inflict injury, or explosives are prohibited on college property.

COLLEGIATE ATHLETIC PROGRAM



A full athletic program is maintained at NIACC. Men have the opportunity to participate in cross country, soccer, basketball, wrestling, golf, track and field, and baseball. Women's intercollegiate sports are softball, 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 | Mark Mohl |
| Basketball, Women's | Kelli Terrell, Head Coach |
| Cross Country, Men's and Women's | Curtis Vais |
| 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 | Chris Brandt |
| Wrestling..... | Steve Kelly |

Athletic Conference

NIACC is a member of the Iowa Community College Athletic Conference (ICCAC) and the National Junior College Athletic Association (NJCAA).

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 enroll in a 2.00 s.h. career decision making course.

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 1-888-466-4222, 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 Development 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) |
| 16-20 | 49-100 | 01-51 | | | MAT-063 Elementary Algebra Credit earned will not satisfy the requirements for an associate degree and will not be used in calculating the cumulative grade point average for graduation. MAT-770 Applied Math (Automotive, Building Trades, Climate Control, Electromechanical, and Tool & Die Programs) |
| 18-20 | 76-100 | 40-55 | | | MAT-099 Combined Algebra This course may not be used to satisfy core requirements. Elective credit only. |
| 20-21 | | 51-75 | | | MAT-102 Intermediate Algebra This course may not be used to satisfy core requirements. Elective credit only. |
| 18-20 | 76-100 | 40-55 | | | MAT-110 Math for Liberal Arts Decision Zone: Choices: 1. Take either Survey of Math or Pre-Algebra 2. Take one credit of Mastery Math along with MAT-110 3. Take the one credit connected Math Lab with one of the selected MAT-110 courses. 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% |
| *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 | |
| 21 or higher | | 56-100 | | | MAT-110 Math for Liberal Arts Chance of receiving a C or higher in MLA. ACT 21 or higher. 68% and up COMPASS Algebra 56 or higher. 77% and up MAT-153 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 MAT-165 Calculus (for Business) (Requirement: ACT = 26) |
| 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 |
| 01-15 | 01-70 | RDG-015 Power Reading - This course is required with scores in these areas. NOTE: Industrial students have this course built into the Communications I course. |
| 16-18 | 71-80 | RDG-125 College Reading Strategies - This course is required with scores in these areas. |
| 19-36 | 81-99 | RDG-125 College Reading Strategies - This course is strongly advised for all students. |

ENRICHMENT 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, 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 Development 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. **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 1-888-466-4222, 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 TRiO grant program which helps eligible students stay in college and graduate. The Program offers counseling, tutoring, a college survival skills orientation course, a course in study techniques for academic success, career exploration, transfer assistance, financial literacy counseling, 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 documented disability. Students interested in these services should call (641) 422-4105, or 1-888-466-4222, Extension 4105, or stop at the Student Development 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) at www.fafsa.gov. NIACC's school code is 001877.

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, 2012, whichever is earlier. Verification is complete when the school has received all documentation requested, and the school has a final and valid Student Aid Report on file showing the official EFC.

Applications received at the Federal Processing Center by March 1 will be given priority consideration for financial aid.

To be eligible for financial assistance, a student must meet the following eligibility criteria:

1. Have a high school diploma or GED or have passed an independently administered ability to benefit test.
2. Be a U.S. citizen or eligible noncitizen.
3. Be enrolled as a regular student in an eligible program of study for the purpose of obtaining a degree.
4. Be registered with Selective Service, if required (most males from age 18-25).
5. Maintain Satisfactory Academic Progress.
6. Not owe a refund on a Federal grant or be in default of a Federal educational loan.

GRANTS

Federal Pell Grant

Federal grants awarded directly to students. Students must demonstrate need.

Federal Supplemental Educational Opportunity Grant

- Federally funded grants administered by NIACC
- Student must demonstrate need
- Awards limited to funds available

Iowa Vocational-Technical Grant

- Iowa resident
- Enrolled in Career or Career Option programs
- Student must demonstrate need
- FAFSA Application must be filed by July 1

Iowa Grant

- Iowa resident
- Student must demonstrate need
- Awards limited to funds available

The Iowa National Guard Educational Assistance Grants

The Iowa National Guard Educational Assistance Grant may pay up to 50% of undergraduate tuition for active members of the Iowa Army and Air National Guard. Eligibility for this tuition assistance program is determined by the Adjutant General of Iowa and funding for the program is determined on an annual basis by the Iowa General Assembly.

Individuals must submit an application to their Unit Commander to apply for this program. The Adjutant General determines eligibility and then notifies the Iowa College Student Aid Commission (ICSAC) of approved applications. The College is notified by the Iowa College Student Aid Commission of the student's eligibility.

WORK STUDY

Federal Work Study (FWS)

- Part-time work opportunities
- Federally funded, NIACC administered
- Student must demonstrate need
- Awards limited to funds available

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 2011-12 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 1.0%

| | | 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 2011-12 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 or completing the requirement on-line at www.studentloans.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 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 institutional charges, 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 Scholarship 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, 1-888-466-4222, Ext. 4168 or (641) 422-4168.

SATISFACTORY PROGRESS FOR FINANCIAL AID RECIPIENTS

North Iowa Area Community College (NIACC), in accordance with Federal and State law, requires that students make satisfactory academic progress towards a degree or diploma. NIACC's satisfactory academic progress standards for financial aid apply to all students who want to establish or maintain financial aid eligibility. The standards apply to a student's entire academic transcript whether or not the student received financial aid. These are minimum standards that must be attained. Students bear primary responsibility for their own academic progress and for seeking assistance when experiencing academic difficulty. NIACC will evaluate satisfactory academic progress after each term which includes fall, spring and summer. All students with registered credits during a term will be evaluated at the end of that term. Financial Aid's Satisfactory Academic Progress (SAP) standard is a different policy than the Successful Satisfactory Academic guidelines. Students will follow a different procedure when suspended academically and will need to contact the Student Development Office with questions. Students may be suspended from financial aid but not from NIACC, so please always check with BOTH the Financial Aid Office and the Student Development Office.

POLICY

The Higher Education Act of 1965, as amended, requires students to maintain satisfactory progress towards their degree in order to receive financial aid. Financial aid satisfactory progress is a three-part federal regulation with minimum standards that must be met.

1. **Pace of Progression.** Students are required to earn, with passing grades, at least 2/3 (67%) of the semester hours of which have been cumulatively attempted. Pace is calculated by dividing cumulative hours the student has successfully completed by cumulative hours student has attempted.
2. **Maximum Time Frame.** Students are required to complete their program of study within 150% of the published length of the program measured in semester hours attempted. Courses taken for, but not limited to audit, Institutional Proficiency exams, correspondence, independent study, articulated courses, and college-level examination programs will be included in the maximum time frame allowed for the pursuit of a degree.
3. **Minimum GPA.** Students must maintain a cumulative gpa of 2.0 or higher to remain eligible for financial aid.

GRADES/CREDITS

Completed Hours: Only grades of A, A-, B+, B, B-, C+, C, C-, D+, D, D- and P are counted as completed coursework.

Attempted Hours: The total number of semester hours for which the student is officially enrolled in at the end of the 5th day of the term. Cumulative attempted hours are the total number of semester hours registered for all terms of enrollment at the College, including summer terms and terms for which the student did not receive financial aid. The following do not count as completed hours, but will be counted as attempted and may affect satisfactory academic progress:

| | |
|-----------------------|--------------------------------|
| Failed classes (F) | Audited classes (N) |
| Withdrawn classes (W) | Incomplete grades (I) |
| No credit/no pass (Q) | Grade requital (Fresh start/0) |

For a complete definition of grades, see the NIACC catalog.

If your incomplete grade is what caused you to fail satisfactory progress guidelines, it is your responsibility to submit a final grade to the financial aid office for reevaluation.

Consortium Credits: Credits taken at another college with prior approval of the NIACC Financial Aid Office. These credits are used in determining financial aid eligibility and use in SAP calculations.

Developmental Courses: Students may receive financial aid up to 30 semester hours of remedial coursework. However, all of these hours attempted are used in measuring SAP.

Repeated Courses: You are allowed to repeat courses, however, keep in mind that all the credits will continue to be counted in the time to complete your degree. In computing the cumulative grade point average, only the most recent grade earned will be used.

Transfer Coursework: NIACC assumes transfer students enrolled at NIACC are making satisfactory academic progress; however, NIACC reserves the right to request transcripts of previous institutions attended at any time to determine prior completion rate. Transfer credits are earned at another college and accepted by NIACC. Transfer credits that are accepted by NIACC and apply to the student's program of study shall be counted as credits attempted and completed in determining pace of progression and maximum time frame requirements. Grades associated with these credits are not included in calculating gpa.

FAILURE TO MEET SATISFACTORY PROGRESS

NIACC reserves the right to place a student on financial aid warning or suspension who exhibits abuse of receipt of financial aid at any time or receives a 0.00 gpa in any semester at NIACC.

Warning

After one term of not complying with the financial aid standards for satisfactory academic progress, students will be placed on "Warning" status and be notified in writing or email. Students on warning status are eligible to receive financial aid. If, at the end of the warning period, a student who has been on warning has met both the cumulative gpa and pace of progression standards, the warning status is ended and the student is returned to good standing. If a student had an incomplete grade or a grade was submitted in error and that is what caused him to fail satisfactory progress guidelines, it is his responsibility to submit a final grade to the Financial Aid Office for reevaluation.

Suspension

If students currently on warning status fail to meet any Satisfactory Academic Progress standards for financial aid, the student will be placed on suspension status and be denied financial aid. The Financial Aid Office will notify students of suspension status via mail or email and include the appeal process students may complete in order to reestablish financial aid eligibility. If you had an incomplete grade or a grade was submitted in error and that is what caused you to fail satisfactory progress guidelines, it is your responsibility to submit a final grade to the financial aid office for reevaluation. Suspension may also occur when a student has exceeded the 150% of the published length of the program measured in credit hours attempted. Students may also appeal this decision by following the process outlined below.

Appeal/Reinstatement of Financial Aid

Students who have been suspended from financial aid due to extenuating circumstances (e.g., death in the family, student injury or illness, or other circumstances beyond your reasonable control), may appeal for reinstatement. Complete the Financial Aid Appeal Form and submit to the Financial Aid Office. The appeal form requires a written explanation of why the student failed to meet SAP and what has changed that will allow the student to meet SAP at the next evaluation. The student may submit or be asked to submit additional supporting documentation. The Financial Aid Appeal Committee will review a student's appeal and their decision will be communicated to students in writing or email. Students will be approved, approved with academic plan, or denied.

Approval of Appeal: Student appeals may be approved in one of two ways:

PROBATION: If it is believed that the student will be able to correct himself in one term, the student will be placed on probation status. The student will be eligible for financial aid during this probationary term. At the end of the probationary term, SAP will be reevaluated. If a student is at that time meeting the standards, he will return to satisfactory status. Failure to meet SAP will result in a suspension status. Students cannot appeal a second time with the same rationale.

OR

PROBATION ON AN ACADEMIC PLAN: If, when reviewing a student's appeal, it is determined by the committee that it will take longer than one term to meet standards, the student will be required to meet with an academic advisor and develop an academic plan outlining steps to success. Students will meet with an academic advisor and develop a plan for success outlining the steps necessary to meet SAP by a specific point in time. Once the Financial Aid Office is notified that the Plan is complete, the student's financial aid will be reinstated. Plans will be monitored at the end of each term. If not following the plan, the student will be suspended. Failure to follow these steps will result in suspension. Students cannot appeal a second time with the same rationale. Once the student has met the conditions of the Plan, SAP status will return to satisfactory.

Conviction for Drug Possession or Sale

A Federal or state drug conviction can disqualify a student for financial aid funds. A student self-certifies on the FAFSA application that he/she has never been convicted of possessing or selling drugs for an offense that occurred while he/she was receiving Federal student aid. A student who is unsure if the nature and dates of his/her conviction is disqualifying him/her from receiving financial aid, should contact the Department of Education at 1-800-433-3243 for clarification.

SCHOLARSHIPS

Foundation Scholarships

Scholarships for degree seeking individuals are made possible through the generous support of individuals, businesses, industries, and foundations. Students wanting information about scholarships should contact the NIACC Financial Aid Office. A complete listing of scholarships is available online. To apply for the scholarships listed below, go to www.niacc.edu/finaid/.

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 NIACC Financial Aid Office.

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.

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 new students who will be living in the dormitories. Academic ability is also considered.

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.

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
Wilbert and Luella Brandau Scholarship
Anna Rusley Brown Nursing Scholarship
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
Janet Dean 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
 Ron and Margaret Hoel Scholarship
 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
 Merle and Delores Kudej Scholarship
 Del and Mary Laudner Agriculture Scholarship
 Jon Lewerke Memorial Baseball Scholarship
 Florence Liebl Memorial Fund
 Kenneth A. Loeb Memorial Scholarship Fund
 Art and Rachelle Lundblad Scholarship
 Charles W. and Mary Jane Maxon Memorial Scholarship
 Becky K. McGee Memorial Scholarship Fund
 Mercy Medical Center - North Iowa Scholarship Fund
 Michael C. Morrison Scholarship
 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
 Geneva Rusley Secretarial 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
 Mary Furlleigh Woerner Scholarship

Term Scholarships (Sponsors vary annually)

75th Anniversary Scholarship Fund
 85th Anniversary Scholarship Fund
 ACE Credit Union Scholarship
 Gordon and Johanna Anderson Scholarship
 Area 2 High School Scholarships
 Noreen H. Barkema Tuition Grants
 Robert and Lois Bergland Scholarship
 Beta Sigma Phi Scholarship
 Central States Gun Collectors Scholarship

Charles City Scholarship
 C.L.A.S.S. Car Club Automotive Scholarship
 Communication Skills Scholarship
 Communications 1 Network, Inc. Scholarship
 CURRIES Scholarship
 Delta Kappa Gamma XI Chapter
 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
 E. C. Henningsen Scholarship
 Frank and Margaret Hoffman Organ Study Scholarship
 Naomi and Thor Jensen Scholarship
 GK 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
 Martin Marietta Scholarship
 Ann Schinnow Mason Memorial Scholarship
 Masters' Chiropractic Scholarship
 MCHS Class of 1955 Scholarship
 Mercy Medical Center Auxiliary-North Iowa Scholarship
 Metalcraft Scholarship
 NIACC Alumni Association 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
 PDK Harold Webb Scholarship
 Premier FastTrac Scholarship
 The Principal Financial Group Foundation, Inc. Scholarship
 River City Street Rods Scholarship
 Road Dog Automotive Scholarship
 Schaefer Building Trades Scholarship
 Bertha Stebens Fine Arts Scholarship Fund
 Ira Stinson Memorial Fund
 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.

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 Laura Merfeld at 641-422-4355.

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 Development Office 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, Pierce Administration Building, Room 106A, 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 computer lab is available for student use.

NIACC also provides apartment-style housing for returning sophomore residents. NIACC has 12 such apartments. Six of the apartments have two bedrooms and two bathrooms, a kitchenette, dining room and living room combination, and a patio overlooking one of our two lakes. Six of the apartments have three bedrooms and three bathrooms. 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 resident assistant is assigned to each floor.

*Fees for the 2011-12 college year are as follows:**

| | |
|--|-----------------|
| <i>Application Fee (nonrefundable)</i> | <i>\$25.00</i> |
| <i>Damage Deposit (refundable)</i> | <i>\$50.00</i> |
| <i>Maintenance Fee (per year)</i> | <i>\$100.00</i> |

Room and Board - Residence Hall

| | |
|--------------------------|-------------------------------------|
| <i>Double Room</i> | <i>\$2,598.75 per semester</i> |
| | <i>\$5,197.50 per academic year</i> |
| <i>Single Room</i> | <i>\$2,948.75 per semester</i> |
| | <i>\$5,897.50 per academic year</i> |

| | |
|---|-------------------------------------|
| <i>Suites/Apartments 1-6 (per resident)</i> | <i>\$2,773.75 per semester</i> |
| | <i>\$5,547.50 per academic year</i> |
| <i>Apartments 7-12 (per resident)</i> | <i>\$2,948.75 per semester</i> |
| | <i>\$5,897.50 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 for 16-week 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 for 16-week classes.

*Please consult the academic calendar or Records Office for add/drop course deadlines during shortened terms.

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 Development.

Class Attendance

Because regular class attendance contributes to successful course completion, students are expected to attend every class. Instructors publish and distribute attendance policy statements during the first class meeting. Students are responsible for knowing and following those policies.

Grading

The quality of your work is evaluated by the grades you receive. They are a measure of your learning experience. Grades are also the basis for transfer to another college. Generally, a student is not considered admissible by a four-year college without at least a cumulative grade point average of 2.00. To achieve your academic goal, it is important that you develop good study habits at the beginning of your enrollment at NIACC.

| <u>Grade</u> | <u>Grade Points</u> |
|--------------|---------------------|
| A | 4.00 |
| A- | 3.67 |
| B+ | 3.33 |
| B | 3.00 |
| B- | 2.67 |
| C+ | 2.33 |
| C | 2.00 |
| C- | 1.67 |
| D+ | 1.33 |
| D | 1.00 |
| D- | .67 |
| F | .00 |

I - The incomplete grade "I" is used when the instructor believes there is a reasonable chance the student can and will make up the work within a reasonable time frame and the student has been doing satisfactory work in class. An incomplete grade, if not made up within the instructor guidelines, will become an "F" or "Q".

W - The letter "W" will be given when a student officially withdraws from class(es).

Other Symbols:

X - Course repeated

N - Audit

T - Credit granted by examination (test out)

L - Credit granted for experiential learning

Q - No credit/no pass (used in pass/no pass courses only)

O - Grade requital (to be used only when Fresh Start is granted)

P - Credit earned/pass

Policy for Grades Earned in Repeated Courses

Grades earned in courses which have been repeated will be administered and interpreted according to the following guidelines:

1. Grades earned in all registrations will be recorded on the permanent transcript.
2. In computing the cumulative grade point average for graduation, only the most recent grade earned in a course which has been repeated will be used.
3. For purposes of satisfying a prerequisite, the most recent grade earned in a course will be used.

Grade Point Average

The grade point average is determined in the following manner:

1. Multiply the number of grade points equivalent to the letter grade received in each course by the number of credit hours attempted for the course to arrive at the quality points earned in each course.
2. Divide the sum of quality points by the total number of credit hours attempted. The quotient represents the grade point average (GPA) for the term.

The cumulative grade average is determined in the same manner as the grade point average, except that all of the student's work at the college is taken into account. Note: Developmental courses are not used in calculating the cumulative grade point average for graduation and transfer courses are not included in the cumulative grade point average.

Grades and Reports

Midterm reports covering the work for the first half of each term will be available to all students 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 ETS - Proficiency 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 ETS - Proficiency 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 ETS - Proficiency 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 ETS - Proficiency 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. Student Name
2. Hometown
3. Major field of study (program)
4. Dates of attendance (by term)
5. Enrollment status (full-time or part-time)
6. Degrees and awards received
7. Participation in officially recognized activities and sports
8. Weight and height of members of athletic teams
9. NIACC e-mail address

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, Dean of Student Development, 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 Dean of Student Development. 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, diploma, or certificate. 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, diploma, or certificate at the time of completion of requirements.

Attendance at the Commencement Ceremony is one of the requirements for receiving a degree, diploma, or certificate 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 or in consideration of number of credits 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.

If the student has an incomplete grade at the time of processing, they will not be considered for the Dean's List.

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 aver-

age 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, the Dean of Student Development's 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 available on Web Advisor in July and is due in full August 15, 2011.

Spring semester bill will be available on Web Advisor in December and is due in full January 3, 2012.

Nelnet 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 Nelnet agreement choice. A \$25 per semester fee is charged to participate in the Nelnet 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 15 for the Fall Term and January 3 for the Spring Term). Reinstatement is possible when payment is made and if the courses are still available. If no payment has been made either directly or through Financial Aid, you are subject to administrative withdrawal, and if residing on campus, dismissal from NIACC student housing.

If the student chooses not to attend or is unable to attend College, he/she must notify the Records Office in writing prior to the term start date. The student is held liable for tuition and fee charges should he/she fail to notify the Records Office in writing prior to the term start date.

All financial obligations must be cleared before 1) a student will be allowed to register for a subsequent term; 2) the student's academic transcript will be released.

Failure to pay in full could result in additional actions such as collection proceedings and/or State of Iowa Offset Collections.

Making Payment Online

To make a payment online, log in to Web Advisor on the NIACC home page, www.NIACC.edu, and select "Make a Payment" under the Financial Information section of the page. You may pay with Mastercard or Visa, debit or credit. If you wish to pay with Discover, please call 1-888-466-4222 (Ext. 4214).

REGISTRATION PROCESS

Registration

Student registration consists of: (1) selecting appropriate courses through Web Advisor; (2) program planning with an academic advisor; (3) the student is then released to register online; (4) registering through Web Advisor; and (5) payment of tuition and fees arranged with the Business Office. All steps must be taken before registration is complete.

Course schedules can be found through the Student Menu on the NIACC website, and course selection is completed through Web Advisor, once the schedule is released by the Office of the Vice President for Academic and Student 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 Counseling Office at 1-888-466-4222, Ext. 4207.

Auditing a Class

Students who wish to audit classes may do so on a space-available basis after classes begin with instructor approval. The student must meet the attendance requirements in a course but is not required to complete assignments, take examinations, or meet other class requirements. The charge for an audited class is one-half tuition cost per semester.

RESIDENCY POLICY GUIDELINESReclassification of Non-resident Status

In determining resident or non-resident classification, the primary determination is the reason a person is in the state of Iowa. If a person is in the state primarily for educational purposes, that person will be considered a non-resident. The burden of establishing the reason a person is in Iowa for other than educational purposes rests with the student. The second determination will be the length of time a person has resided in Iowa. An individual must document residing in the state of Iowa for at least 90 days prior to the academic term for which residency status is sought.

Procedure

1. Students shall complete the "Application for Resident Classification" form.
2. Students shall submit the "Application for Resident Classification" form to the Office of the Registrar prior to registering for the academic term for which residency status is sought.
3. Students requesting residency status shall submit documentary evidence of an established domicile within the State of Iowa for at least 90 days prior to the academic term for which residency status is sought.

In addition, the student shall submit any two of the following:

- a. An Iowa driver's license
 - b. An Iowa vehicle registration
 - c. Evidence of ownership of Iowa property
 - d. An Iowa income tax return
 - e. A voter's registration card for the State of Iowa (by county)
 - f. Other similar evidence
4. Copies of the documentary evidence shall be attached to the "Application for Resident Classification" form.

Students will be notified as to the approval or denial of their request for residency status by the Office of the Registrar prior to enrollment in the term for which residency status is sought.

The "Application for Resident Classification" form and documentary evidence shall be filed in the Records Office.

Students may appeal the denial of residency status to the Dean of Student Development whose administrative decision shall be final.

Classification of residency status may be obtained by students who are not of majority age (at the time of application) through evidence submitted by the student's parent(s) or legal guardian(s).

Reclassification of residency status is not retroactive. International students cannot establish residency while studying in this country on a temporary visa.

**TITLE IV FINANCIAL AID RECIPIENTS
REFUND AND REPAYMENT POLICY**

The refund schedule for recipients of Title IV Financial Aid will be calculated in accordance with Public Law 105-244, The Higher Education Amendments of 1998.

The law requires that if a student receives financial aid and withdraws from school during the payment period or period of enrollment in which the recipient began attendance, the school must calculate the amount of SFA Program assistance the student did not earn and those funds must be returned.

- Recalculation is based on the percent of earned aid using the following formula:
 - Percent earned = Number of days completed up to the withdrawal date/total days in the semester.
- Federal financial aid is returned to the federal government based on the percent of unearned aid using the following formula:
 - Aid to be returned = (100% - percent earned) X the amount of aid disbursed toward institutional charges.

Institutions are required to return SFA funds on behalf of recipients in the following order:

1. Unsubsidized Federal Stafford Loans
2. Subsidized Federal Stafford Loans
3. Unsubsidized Federal Direct Stafford Loans
4. Subsidized Federal Direct Stafford Loans
5. Federal Perkins Loans
6. Federal PLUS Loans
7. Direct PLUS Loans
8. Federal Pell Grant
9. Federal SEOG
10. Other Title IV Assistance

In determining the amount of funds the student must return, the formula is as follows: Amount of Unearned Title IV Aid - School's Responsibility = Student's Responsibility.

Students must return funds in the following order:

1. Unsubsidized Federal Stafford Loans*
2. Subsidized Federal Stafford Loans*
3. Unsubsidized Direct Stafford Loans*
4. Subsidized Direct Stafford Loans*

5. Perkins Loans*
6. Federal PLUS Loans*
7. Direct PLUS Loans*
8. Federal Pell Grant x 50%
9. Federal SEOG x 50%
10. Other Title IV Assistance

* In accordance with terms of promissory note.

When aid is returned, the student may owe a bill to NIACC. The student should contact the Business Office to make payment arrangements.

Examples of Title IV Refund Policy

Example #1:

Student withdraws on the 25th day after the start of the semester which is 109 days long, student earns 22.93% of his/her federal aid. 77.07% of federal aid is considered to be unearned. The unearned amount must be repaid to loan and/or grant programs.

Student received a Pell grant of \$ 1500 for the semester and is charged \$ 1000 for tuition and fees. On the 21st day, the student received a cash refund of \$ 500 for Pell grant that exceeded his/her cost. On the 25th day, the student officially withdraws from all classes.

\$ 1000 X 22.93% = \$ 229.30, the amount the college can apply to charges.

\$ 1000 X 77.07% = \$ 770.70, the amount the college must return to the federal government.

According to NIACC's Tuition Refund policy, the student is not entitled to a refund of charges.

| | |
|---------------------------|------------|
| Charges..... | \$ 1000.00 |
| Earned aid..... | -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 x 50% = \$ 500, the amount the college can apply to charges.

\$ 1000 x 50% = \$ 500, the amount the college must return to the federal government.

According to the NIACC Tuition Refund policy, the student is not entitled to a refund of charges.

| | |
|---------------------------|---------|
| Charges..... | \$ 1000 |
| Earned aid..... | -500 |
| Adjusted balance due..... | \$ 500 |

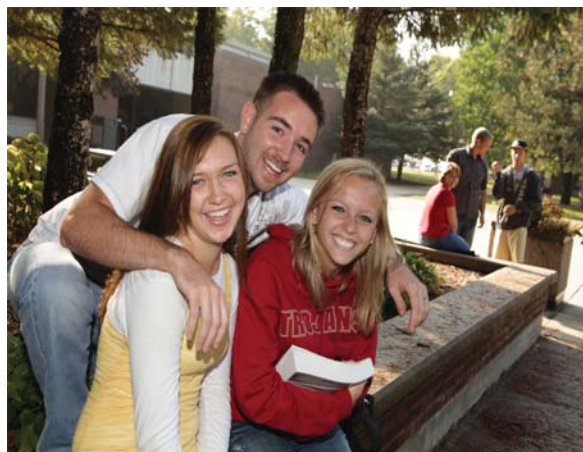
Pell cash refund unearned = \$ 250. Student must repay one-half of this amount or \$ 125.

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, 2011, and is subject to change or modification.

| SEMESTER HOUR LOAD | IOWA RESIDENT TUITION | NON-IOWA RESIDENT TUITION |
|--------------------------|-----------------------------|---------------------------------|
| 1 | \$ 122.20 | \$ 183.30 |
| 2 | 244.40 | 366.60 |
| 3 | 366.60 | 549.90 |
| 4 | 488.80 | 733.20 |
| 5 | 611.00 | 916.50 |
| 6 | 733.20 | 1,099.80 |
| 7 | 855.40 | 1,283.10 |
| 8 | 977.60 | 1,466.40 |
| 9 | 1,099.80 | 1,649.70 |
| 10 | 1,222.00 | 1,833.00 |
| 11 | 1,344.20 | 2,016.30 |
| 12 | 1,466.40 | 2,199.60 |
| 13 | 1,588.60 | 2,382.90 |
| 14 | 1,710.80 | 2,566.20 |
| 15 | 1,833.00 | 2,749.50 |
| 16 | 1,955.20 | 2,932.80 |
| 17 | 2,077.40 | 3,116.10 |
| 18 | 2,199.60 | 3,299.40 |
| 19 | 2,321.80 | 3,482.70 |
| 20* | 2,444.00 | 3,666.00 |

*20 HOUR CAP ON TUITION AND FEES

Fees

| SEMESTER HOUR LOAD | MATERIALS/ LAB AND SUPPLIES FEE** | STUDENT ACTIVITIES FEE | TECH- NOLOGY FEE |
|--------------------------|---|------------------------------|------------------------|
| 1 | \$ 11.45 | \$ 3.18 | \$ 10.00 |
| 2 | 22.90 | 6.36 | 20.00 |
| 3 | 34.35 | 9.54 | 30.00 |
| 4 | 45.80 | 12.72 | 40.00 |
| 5 | 57.25 | 15.90 | 50.00 |
| 6 | 68.70 | 19.08 | 60.00 |
| 7 | 80.15 | 22.26 | 70.00 |
| 8 | 91.60 | 25.44 | 80.00 |
| 9 | 103.05 | 28.62 | 90.00 |
| 10 | 114.50 | 31.80 | 100.00 |
| 11 | 125.95 | 34.98 | 110.00 |
| 12 | 137.40 | 38.16 | 120.00 |

| | | | |
|-----|--------|-------|--------|
| 13 | 148.85 | 41.34 | 130.00 |
| 14 | 160.30 | 44.52 | 140.00 |
| 15 | 171.75 | 47.70 | 150.00 |
| 16 | 183.20 | 50.88 | 160.00 |
| 17 | 194.65 | 54.06 | 170.00 |
| 18 | 206.10 | 57.24 | 180.00 |
| 19 | 217.55 | 60.42 | 190.00 |
| 20* | 229.00 | 63.60 | 200.00 |

*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 DayNo Refund
(Days are defined as Monday through Friday, holidays excluded. Day count begins with the beginning date of the term.)

3½-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 daysNo 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(s) |
|--|---|-----------------------------------|
| Ag Club | Agriculture | Kevin Muhlenbruch/Abbie Wiebbecke |
| Art Club | Art | Wayne Allison/Melissa Lovingood |
| Be the Majority | Social Science | Helen Karamitros |
| Campus Ministry Association | Student Development | Brent Hamilton |
| Carpentry Student Association | Building Trades | Gregg Helmich |
| Chess Club | Mathematics | Paul Hertzell/Jeffrey Pilz |
| Collegiate Entrepreneurs' Organization | Pappajohn Entrepreneurial Center | Tim Putnam |
| Disc Golf | Student Development | Charles Schroeder |
| Education Club | Education | Kacy Larson |
| Environmental Student Affairs Club | Biology | Craig Zoellner |
| Equality Alliance | Student Development | Jeff Platt/Larry Kollman |
| Forum Club | Ethics | Joe Davis |
| Human Services Club | Human Services | Larry Kollman |
| INK | Communication Skills | Joe Davis/Diana Cameron |
| International Students and Friends | Student Development | Cindy Eyberg |
| Karate Club | Student Development | Borden Plunkett |
| Math and Engineering Club | Mathematics | Kathy Rogotzke |
| NetBytes | Information Technology | Mary Mosiman |
| Nursing Club | Nursing | Laurie DeGroote |
| Older Wiser Learners | Student Development | Cindy Lind/Chris Frenz |
| Physical Therapist Assistant Club | PTA | Susan Callanan |
| Ski and Snowboard Club | Student Development | Bruce McKee/John Brietzke |
| Sport Management Club | Wellness, Exercise Science & Leisure Serv | Tyler Sisco |
| Tennis Club | Student Development | Jamie Zanios |
| Women in Technology | Information Technology | Mary Mosiman |

Each year a new budget is established. A club may request student activities funds for the following purposes:

1. Attendance of members and club advisors at conferences and workshops (Reasonable request for transportation, lodging, and registration. No meals provided for club members. Advisors may be reimbursed through their department or the club budget.)
2. Special events for members such as banquets, honor/induction ceremonies.
3. Educational/social programs sponsored by the club but open to the public (expenses such as speaker fees, refreshments, etc.)
4. Leadership development activities (for club members only).

Clubs are encouraged to organize fund-raising events to further their mission.

Ag Club

If you're interested in agriculture, then Ag Club is for you. Activities may include club trips, livestock sales, ag career seminars, fundraisers, ag farm days for local elementary schools and state and national conferences. You can be as active as you would like to be. We also have individual interest groups including cattle, swine, crops, and bees for you to become involved in. Come check us out today!

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.

Be the Majority

Be the Majority is a one semester hour special problems credit offering that involves planning and implementing a program that utilizes a research-based media campaign approach. The purpose of this group is to address the ongoing health and safety issues of high-risk drinking among the college population. This group is sponsored by the Youth Task Force, and is paid for by state and federal grants until 2013. The fall semester involves a weekly meeting starting the second Tuesday of the semester, that consists of selecting a target population and planning the media program based on results from the CORE Survey. The second semester consists of the actual implementation of the program. A minimum of 15 contact hours are required for the optional one semester hour credit. If you are interested in participating, please stop by Helen Karamitros's office (BC229) or call her at 641-422-4159.

Campus Ministry Association

Campus Ministry Association'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.

Carpentry Student Association

The Carpentry Student Association fosters personal growth, leadership, and opportunities in Building Trades, innovation, design, and engineering. Members apply and integrate carpentry and mathematics concepts through co-curricular activities, competitive events and service-learning activities which benefit the community. Students in engineering and construction-related fields are encouraged to join.

Chess Club

The Chess Club is an informal association of faculty, staff and students who enjoy the game of chess. Both boards and clocks are available in the Mathematics Division, and space for playing is provided in the math lab, MH012. It has become a tradition to hold a speed chess tournament in the spring semester.

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.

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 Student Affairs Club

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.

Equality Alliance

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.

Human Services Club

The Human Services Club is for all students interested in careers in some type of counseling or working with individuals with exceptionalities (physical, emotional, developmental). Students may be psychology, human services, or social work majors. The purpose of the Club is to provide information on career topics, trends in the area of counseling, transfer issues, and job opportunities. Individuals working in the area are invited as guest speakers to help inform students about specific job-related issues.

INK

The INK organization's mission is to promote literature by providing a literary magazine.

International Students and Friends

The International Students and Friends Club supports international students, students for whom English is not their first language, and students who have emigrated to the United States. The Club also invites all students to get involved with students from other cultures and backgrounds. Opportunities are provided to explore local culture, get to know faculty and staff, and attend social events. Special recognition is provided for outstanding international students.

Karate Club

The Karate Club participants study the JKA method of Shoto-kan Karate, which should provide students with the skills for survival and should also serve as a vehicle for personal, physical, and social development and growth. Participants do not need to have previous experience with martial arts to begin training. Training times are Tuesday and Thursday evenings from 6:30 to 8:00 p.m. at 621 South Adams in Mason City. For more information, contact club advisor and instructor Borden Plunkett at plunkbor@niacc.edu.

Math and Engineering Club

The Math and Engineering Club provides various opportunities for students (with a range of mathematical abilities) to take part in mathematical and engineering 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.

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.

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 website 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.

Women in Technology Club

If you are a female majoring in a traditionally male-dominated discipline, the Women in Technology Club is for You! Get connected and explore other support systems as well as other powerful occupations where women are underrepresented. These would include any programs in the Computer Information Systems area including Graphic Media, Computational Science, Engineering, CADD Technology, Math, all of the Sciences, Automotive Technology, Building Trades, most areas of Ornamental Horticulture, Wastewater Technology, and Environmental Technology.

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 |
|----------------------|---------------------|---------------------------|
| Collegiate Athletics | Physical Education | Dan Mason |
| Dance Line | Physical Education | Dan Mason |
| Drama | Communications | Tim Slaven |
| Honors | Student Development | Patrick Gallart |
| Instrumental Music | Music | John Klemas |
| Intramurals | Physical Education | Athletic Office |
| Logos | Journalism | Paul Peterson |
| Phi Theta Kappa | Student Development | Jeff Platt/Doreen Lechner |
| Student Senate | Student Development | Lisa Jahnel |
| Vocal Music | Music | Jayson Ryner |

Other student services/activities receiving Student Activities funding:

- Health Services
- 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 12 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.



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

Performing Arts

Elizabeth Gales, *Director of Performing Arts and Leadership Series*; 1990

B.A., College of St. Catherine

Merlin Schafer, *Auditorium Technician*; 2002

A.S. and A.S.B., North Iowa Area Community College

ACADEMIC AFFAIRS

Lyn Brodersen, *Vice President for Academic and Student Affairs*

B.A., Coe College; M.A., University of Notre Dame; Ph.D., Iowa State University

Karo Bratrud, *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; additional course work at Iowa State University

Academic Faculty

Agricultural Technology

Joshua Byrnes, *Agriculture and Industrial Division Chair*; 2005

B.A., Luther College; M.S., Winona State University; additional course work at Iowa State University

Kevin Muhlenbruch, *CPAg, Agriculture Instructor*; 1988

B.S., Iowa State University

Abbie Wiebbecke *Agriculture Instructor*; 2010

B.S. and M.S., Iowa State University

Business

Michael Dirksen, *Division Chair, Business; Information Technology Instructor*; 1988

B.A., Augustana College; B.S. and M.S., University of Minnesota at Mankato

Wendy Demaray, *Business Division Associate*; 1991

Diploma, North Iowa Area Community College

Sheryl Fitzpatrick, *CMA, Business Instructor*; 2010

A.A.S., Iowa Lakes Community College; B.A., Buena Vista University; M.B.A., University of Northern Iowa

Michael Fossey, *Business Instructor*; 2010

B.A., University of Northern Iowa; M.S., Winona 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

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

A.A., North Dakota State College of Science; 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 ; additional course work at Iowa State University

Douglas Morse, *Business Instructor*; 2010

B.A., Luther College; M.B.A., University of Iowa; M.A., University of Iowa

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, MCITP, MCTS, GCFA, IC³, PC Technician Instructor*; 2003

B.S., Capella University; M.I.S.M., Keller Graduate School of Management; A.B.D., Capella University

Norb Thomes, *Web and Graphic Design Instructor*; 2001

B.S., University of Wisconsin - LaCrosse; M.Ed., Iowa State University; additional course work at 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; M.A., Morningside College; additional course work at Buena Vista University and Drake University

Communication

Joe Davis, *Division Chair, Communication*; 2000

B.A., Mount Mercy College; M.A., Northern Michigan University; additional course work at Iowa State University

Sally Becker, *Writing Lab Specialist*; 1975

Course work at North Iowa Area Community College

Diana Cameron, *Composition and Speech Instructor*; 1997
B.A., Georgetown College; M.A., Tulane University; M.A., Comparative Literature, University of Chicago; additional course work at Iowa State University.

Sethanne DeGabriele, *Composition and Speech Instructor*; 2001
A.A., North Iowa Area Community College; B.A., University of Northern Iowa; M.A., University of Northern Iowa

Doreen Lechner, *Developmental Writing Instructor*; 2008
B.A., University of Northern Iowa; M.A.E., University of Northern Iowa; additional course work at University of Northern Iowa

Nancy Fallis, *Reading and Education Media Instructor*; 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 Instructor*; 2008
B.A., Brigham Young University; M.A., Marquette University

Mark Messer, *Composition and Speech Instructor*; 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, *Composition and Speech/Journalism Instructor, 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, *Composition and Speech Instructor*; 1993
B.S., Southern Illinois University; M.S., Southern Illinois University

Karen Regal, *Composition and Speech/Children's Literature Instructor*; 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 Instructor*; 1986
B.A. and M.A., University of Northern Iowa; additional course work at University of Northern Iowa and University of Iowa

Arlo Stoltenberg, *Composition and Speech/Literature Instructor*; 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

Fine Arts and Humanities

H. Wayne Allison, *Division Chair, Fine Arts and Humanities; Visual Arts Instructor/Gallery Director*; 2005
B.A., Graceland College; M.F.A., Syracuse University; additional course work at University of Kansas, Kent State University, and University of Northern Iowa.

John Klemas, *Instrumental Music Director*; 1987
B.M.E. and B.M., Drake University; M.A., Washington State University

Melissa Lovingood, *Visual Arts Instructor*; 2010
B.F.A., East Carolina University; M.F.A., San Diego State University

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; M.B.A., Ellis College; additional course work at University of Northern Iowa

Charles Schroeder, *Spanish Instructor*; 2000
B.A. and M.A., University of Northern Iowa; additional course work at Iowa State University

Timothy Slaven, *Speech and Theatre Instructor*; 1992
A.A., Iowa Central Community College; B.A. and M.A., University of Northern Iowa

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 Instructor*; 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 Instructor*; 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 Instructor*; 1988
A.A., North Iowa Area Community College; B.S.N., University of Iowa; M.S.N., Winona State University; Certified Clinical Nurse Specialist in Gerontological Nursing; A.R.N.P.; additional course work at University of Iowa and University of Northern Iowa

Shannon Dodd, *Associate Degree Nursing Instructor*; 2010
A.D.N., North Iowa Area Community College; B.S.N., University of Iowa; M.S.N., University of Iowa

Jean Evenson, *Associate Degree Nursing Instructor*; 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

Brandi Hiscocks, *Practical Nursing Instructor*; 2004
A.D.N., North Iowa Area Community College; B.S.N., Winona State University; additional course work at University of Iowa and University of Northern Iowa

Julie Kolker, *Associate Degree Nursing Instructor*; 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 Instructor*; 2001
A.D.N., North Iowa Area Community College; B.S.N., University of Iowa; additional course work at University of Iowa, Iowa State University, and University of Northern Iowa; certified in Gerontology by American Nursing Credentialing Center

Carol Patnode, *Physical Therapist Assistant Instructor*; 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/Instructor*; 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

Industrial

Joshua Byrnes, *Agriculture and Industrial Division Chair*; 2005
B.A., Luther College; M.S., Winona State University; additional course work at Iowa State University

Diane Dohlman, *Office Assistant, Murphy Manufacturing Technology Center*; 2002
Diploma, Hamilton Business College; additional course work at North Iowa Area Community College

Ryan Bochmann, *Welding Instructor*; 2010
Diplomas, North Iowa Area Community College; B.A., University of Northern Iowa

Randy Bonde, *Tool and Die Technology Instructor*; 2008
Machine Shop Technology Certification, Iowa Central Community College; Journeyman Tool & Die Maker, U.S. DOL

Tom Crowley, *Climate Control (HVAC) Instructor*; 1993
Electronics, Austin Vocational Technical Institute; additional course work at Iowa State University

Robert Franken, *Electromechanical Systems Technology Instructor*; 2008
Alloy Fusion, Machine, and Industrial Service Technology Training, Hawkeye Community College

Robert Heimbuch, *Automotive Services Technology Instructor*; 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 Instructor*; 2007
B.S., Murray State University; additional coursework at Western Kentucky University, Central Southeastern Missouri State University, and Drake University

Kevin Losee, *Tool and Die Technology Instructor*; 2006
A.A.S., Southeastern Community College; A.A.S., North Iowa Area Community College; Journeyman Tool & Die Maker, U.S. DOL; additional course work at University of Northern Iowa.

Brian Mason, *Industrial Maintenance Instructor*; 2009
Journeyman Tool & Die Maker, U.S. DOL; additional course work at Waldorf and North Iowa Area Community College

Jason Ott, *Climate Control (HVAC) Instructor*; 2007
A.A.S., North Iowa Area Community College; additional course work at University of Northern Iowa

Jack Rohde, *Automotive Services Technology Instructor*; 2002
A.A.S., Montcalm Community College; A.S.E. Certified Master Automobile Technician

Mathematics

Kathy Rogotzke, *Division Chair/Instructor, Mathematics*; 1994
B.A., St. Olaf College; M.S., Iowa State University; additional course work at Iowa State University and Kansas State University

Allan Alcock, *Mathematics Instructor*; 2003
B.A., Wartburg College; M.A., Purdue University

David Bernemann, *Engineering/Mathematics Instructor*; 1999
B.S., University of Iowa; M.S., West Virginia University; additional course work at Iowa State University

Andrea Blanchard, *Mathematics Instructor*; 2011
B.A. and M.A., University of Northern Iowa

Christine Brandt, *Developmental Math Instructor*; 2007
B.A., University of Northern Iowa; M.A., Morningside College; additional course work at Drake University

Brent Hamilton, *Mathematics Instructor*; 1998
B.S., University of Dubuque; M.S., Iowa State University; additional course work at Garrett-Evangelical Theological Seminary

Paul Hertzel, *Mathematics Instructor*; 1998
B.S., Mankato State University; M.S., Iowa State University

Rachel Lamp, *Mathematics Instructor*; 1990
B.A., Marycrest College; M.S., Iowa State University; additional course work at University of Iowa and St. Ambrose University

Rodney Zehr, *Developmental Math Instructor*; 2010
A.A., Iowa Central Community College; B.A., University of Northern Iowa; M.A., University of Northern Iowa; additional course work at Portland State University, Viterbo University, Drake University, and Iowa State University

Natural Science

Jason Friday, *Division Chair, Natural Science; Biological Science Instructor*; 2003

B.A., University of Iowa; M.A., Quinnipiac University; additional course work at Drake University, Harvard University, University of Montana, Iowa State University, and University of Texas.

Jody Fink, *Natural Science Associate*; 1985
A.S.B., North Iowa Area Community College

David Chyba, *Physics Instructor*; 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 Instructor*; 1986
B.S., Villanova University; Ph.D., Iowa State University; NIH Postdoctoral Fellow, Johns Hopkins University

Patrick Gallart, *Biological Science Instructor*; 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 Instructor*; 1996
B.S. and M.S., Iowa State University

Carol Schutte, *Biological Science Instructor*; 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 Instructor*; 2007
B.S., University of Wisconsin - Eau Claire; M.S., Iowa State University; additional course work at University of Northern Iowa

Craig Zoellner, *Biological Science Instructor*; 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

Social Science

Jeff Platt, *Division Chair, Social Science; Psychology Instructor*; 1997
B.A., St. Ambrose University; M.S., Iowa State University; Ph.D., Iowa State University

John Brietzke, *Economics Instructor*; 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

Nancy Fallis, *Education Instructor*; 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

Helen Karamitros, *Sociology Instructor*; 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

Larry Kollman, *Psychology Instructor*; 2005
A.A., North Iowa Area Community College; B.A., Buena Vista University, M.S.W., Augsburg College; M.S., Capella University

Kacy Larson, *Education Instructor*; 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 Instructor*; 1990
B.A. and M.A., University of South Dakota; additional course work at Kearney State College (Nebraska)

Joseph (Fred) McCurnin, *Economics Instructor*; 1990
B.A., Augustana College; M.A., University of South Dakota; additional course work at North Dakota State University and University of Pennsylvania

George O'Donnell, *Criminal Justice Instructor/Program Leader*; 2010
B.A., Mount Mercy College; M.S., University of Alabama

Jeffrey Pilz, *American History Instructor*; 1993
B.S., University of Wisconsin at Stevens Point; M.A. and Ph.D., University of Minnesota

Wellness, Exercise Science and Leisure Services

Dan Mason, *Program Leader*; 2006
B.A., North Park University; M.A. Minnesota State University-Mankato

Heather DeWaard-Flickinger, *Wellness, Exercise Science and Leisure Services Instructor*; 2010
B.A. and M.A., University of Northern Iowa

Athletics

Dan Mason, *Director of Athletics*; 2006
B.A., North Park University; M.A., Minnesota State University-Mankato

Christine Brandt, *Head Volleyball Coach*; 2007
B.A., University of Northern Iowa; M.A., Morningside College; additional course work at Drake University

Chris Frenz, *Head Men's and Women's Golf Coach*; 2006
Broadcasting Certification, Brown Institute

Steve Kelly, *Head Wrestling Coach*; 2009
A.A., Iowa Central Community College; B.S., Iowa State University

Mark Mohl, *Head Men's Basketball Coach*; 2008
A.A., Kirkwood Community College; B.S., Morningside College

Michael Regan, *Housing Head Resident/Head Soccer Coach*; 2010
A.A., North Iowa Area Community College; B.A., Waldorf College;
M.S., California University of Pennsylvania

Todd Rima, *Head Baseball Coach*; 2001
B.A., University of Northern Iowa

Emily Ruehlow, *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

Kelli Terrell, *Head Women's Basketball Coach*; 2011
A.A., North Iowa Area Community College; B.A., University of Iowa

Curtis Vais, *Head Track and Cross Country Coach/Assistant to the Athletic Director*; 2004
B.A., Mount Saint Claire College

Mark Vrba, *Athletic Trainer*; 2008
A.A., University of Northern Iowa; M.S., California University of Pennsylvania

Continuing Education

Terry Schumaker, *Dean of Continuing Education*; 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

Operations

Connie Glandon, *Operations Director*; 2000
B.A., Wartburg College; M.S., Capella University

Kathleen Borman, *Office Assistant*; 2010
A.A., Ellsworth Community College; Diploma, Hamilton Business College

Kathy Clemens, *Office Manager*; 1993
Course work at Northwestern College

Pat O'Banion, *Office Assistant*; 1975
Diploma, Hamilton Business College; additional course work at North Iowa Area Community College

Programming and Sales

Jody East, *Sales/Program Director*; 1992
B.S., Iowa State University; M.S., Drake University; and Jonah, the Goldratt Institute

Barb Eisenmenger, *Community Education Director*; 1989
B.A., Buena Vista University; M.S., Iowa State University; Wind and Water School of Feng Shui, FSIM

Susan Nagle, *Director of Lifelong Learning Institute*; 2008
B.S., University of Wisconsin-Eau Claire; B.S., University of Wisconsin-Madison; M.B.A., Notre Dame

Eric Neitzke, *Business and Industry Program Manager*; 2010
B.S., James Madison University

Russell Piehl, *Emergency Medical Services Program Manager*; 2010
Certificate, Hawkeye Community College

John Sjolinder, *Industry and AQIP Coordinator*; 2000
A.A.S., North Iowa Area Community College; B.S., Iowa State University; M.B.A., Iowa State University

Lorna Zrostlik, *Health Program Specialist*; 2010
A.A., North Iowa Area Community College; B.A., University of Northern Iowa

Retired Senior Volunteer Program

Molly Anderegg, *RSVP Project Director*; 2008
B.A., University of Iowa; additional course work at Cottey College and North Iowa Area Community College

Dena Ketelsen, *Administrative Assistant*; 2007
Paraeducator Certification, Hawkeye Community College

Economic Development

Terry Schumaker, *Director of Economic Development/Special Projects*; 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

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

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

Senora Gilley, *Title III Supplemental Instruction/Early Alert Coordinator*; 2006

Diploma, Hawkeye Community College; A.A., Hamilton College; B.A., Hamilton College; additional course work at University of Phoenix and Capella University

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

Doreen Lechner, *Developmental Writing Instructor*; 2008
B.A., University of Northern Iowa; M.A.E., University of Northern Iowa; additional course work at University of Northern Iowa

Lori Quinlan, *Student Learning Center Instructor*; 1985
B.A., University of Northern Iowa; M.S., Iowa State University; additional course work at Drake University

Mary Schultz, *Adult Literacy Coordinator*; 2010
A.A., North Iowa Area Community College; B.A., Iowa State University

Gary Show, *Assessment/GED Records Specialist*; 2003
B.S., Greenville College

Rodney Zehr, *Developmental Math Instructor*; 2010
A.A., Iowa Central Community College; B.A., University of Northern Iowa; M.A., University of Northern Iowa

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

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

Lana Miller, *Copy Center Supervisor*; 1986
Course work at North Iowa Area Community College

Bookstore

Rhonda Nesheim-Kauffman, *Bookstore Manager*; 1996
A.S.B., North Iowa Area Community College; B.A., Buena Vista University

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

Denise Brooks, *Business Office Clerk*; 1987
Diploma, Hamilton Business College

Charles Carrier, *Grant Accounting Assistant*; 2010
A.A. and A.S., 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

Shannon Love, *Cashier*; 2009
A.A.S., Legal Office Administration, Hamilton Business College

Hanna Reis, *Accounts Receivable Clerk*; 2010
A.A., North Iowa Area Community College; B.A., Buena Vista University

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

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

David Trunkhill, *Custodial Supervisor*; 2009
E.M.T. and National Certified Fire Fighter I, North Iowa Area Community College; Boiler Operator Level I and II, Iowa Central Community College

Bill Beach, *Custodian*; 1981

Jerrold Behr, *Custodian*; 2007
A.A., North Iowa Area Community College; additional course work at North Iowa Area Community College

Dan Erickson, *Groundskeeper*; 2003

Dennis Felland, *Custodial Maintenance*; 1995
Course work at Mesa Community College and Arizona State University

Kathy Foster, *Facilities Event Manager*; 1998
A.A., North Iowa Area Community College; B.A., Buena Vista University

Dan Hicok, *Building Maintenance*; 2003

Roberta Hugl, *Administrative Assistant*; 2010
A.A.S., Hamilton College

William Kammeyer, *Building Maintenance*; 2010

David Lief, *Custodian*; 2005

Michelle Moore, *Custodian*; 2007

Bruce Nolte, *Custodian*; 2010

Mike Norcross, *Custodian*; 1999

Shauna Olson, *Custodian*; 2010
A.A. and A.S., North Iowa Area Community College; B.S., Iowa State University

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

Stan Rick, *Custodian*; 2010

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, *Custodian*; 2005
B.A., MidAmerica Nazarene University; course work at South Carolina School of Ministry

Cheryl West, *Custodial Maintenance-Student Housing*; 1976

Timothy Winter, *Electrical Maintenance*; 1999
State Licensed Journeyman Electrician, I.B.E.W.; course work at North Iowa Area Community College

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, *Housing Head Resident/Intramural Coordinator*; 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

INSTITUTIONAL ADVANCEMENT

Jamie T. Zanios, *Director, John Pappajohn Entrepreneurial Center; and Director, Institutional Advancement*; 2003
B.B.A., University of Iowa

Jana Barracks, *Grant Writer/Fund Development Specialist*; 2010
B.S., University of Colorado at Boulder; additional course work at Metropolitan State College

Kristina Carroll, *Administrative Office Assistant, Institutional Advancement*; 2010
B.S., Iowa State University; additional course work at Iowa State University

Molly Knoll, *Assistant Director of Institutional Advancement*; 2003
A.A., North Iowa Area Community College; B.A., University of Northern Iowa

INSTITUTIONAL EFFECTIVENESS AND ORGANIZATIONAL DEVELOPMENT

Shelly Schmit, *Vice President of Institutional Effectiveness and Organizational Development*; 1998
A.A., Des Moines Area Community College; B.S., Iowa State University; M.S., Iowa State University; A.B.D., Iowa State University

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

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; additional course work at North Iowa Area Community College

Steve Hall, *Associate Director of Admissions*; 2009
A.A., Waldorf College; B.A., Concordia College; M.Ed., Iowa State University; additional course work at Iowa State University

Steve Kelly, *Enrollment Specialist*; 2009
A.A., Iowa Central Community College; B.S., Iowa State University

Cindy Lind, *Financial Management Advisor*; 2005
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Mark Mohl, *Enrollment Specialist*; 2008
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Work Incentives Planning and Assistance

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NORTH IOWA AREA COMMUNITY COLLEGE

