

Kirtland Community College



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The contents of the catalog are subject to change. Check the class schedule for the most current information.
The catalog cannot be considered as a contract or agreement between the individual student and Kirtland Community College or its administrators.

Kirtland Community College is an equal opportunity institution, encourages diversity, and does not discriminate against race, color, religion, national origin or ancestry, age, sex, marital status, sexual orientation, disability, or other protected category under Michigan and federal law. Compliance with Section 504 of the Rehabilitation Act of 1973 and with the Americans with Disabilities Act (ADA) is a priority of the college. Dale Shantz, Director of Human Resources, is the 504 Coordinator and the ADA Compliance Officer. Mark McCully is the 504 Coordinator and the ADA Compliance Officer for M-TECSM at Kirtland-Gaylord.

VISION, MISSION, AND GUIDING PRINCIPLES

Kirtland Community College Vision

Kirtland Community College provides open access to education, as well as cultural opportunities, to enrich the lives of the people in Northern Michigan.

Kirtland Community College Mission

Kirtland offers higher education in a student-focused environment, providing transfer and career technical programs; developmental studies; workforce development; personal enrichment and cultural opportunities. We focus resources on our local service area, while maintaining a welcoming climate for our neighbors in Northern Michigan.

Kirtland Community College Guiding Principles

Student learning is Kirtland's commitment-

1. We use continuous-improvement processes to ensure currency and relevancy of programs, services, and facilities.
2. We strive for consistent use of appropriate data in all decision making.
3. We ensure that all decisions are effectively communicated and contribute to student success.
4. We are open and welcoming to all, while recognizing a special responsibility to young adults.
5. We recognize the value of our employees by striving for a high quality of work life and providing opportunities for professional development.
6. We participate in community partnerships, based on shared values and mutual goals, with a focus on K-12 and Economic Development.
7. We seek optimum size based on community needs, available resources, financial responsibility, and College capabilities.

ASSURANCE OF QUALITY

Kirtland Community College is committed to graduating students of high quality, fully capable of performing the skills specified in the student's major, and in the area of the college's general degree requirements. Kirtland Community College offers assurance to its students, prospective employers, and transferring institutions that individuals holding degrees or certificates are fully capable of competent performance.

1. Transferring students who meet the admission criteria of the four-year college or university would be able to perform at a level equal to or better than those students who were admitted as freshman at the transferring institution.

The college will, upon recommendation from the institution to which the student transferred, permit the student to retake any course or courses previously completed at Kirtland in areas deemed deficient. This retake shall result in no tuition or fee charges for the student. If a retake at Kirtland is not preferred and the student shows proof of enrollment in an equivalent course at another college, the college will refund the tuition and fees paid by the student for the Kirtland course or courses in question.

2. Non-transferring students who earn a degree or certificate can be expected to perform competently in the area in which they were instructed. Any employer who views a Kirtland Community College graduate as not possessing appropriate entry-level skills and can specify such deficiencies may request remediation. The student will be permitted to retake a specified course or courses without an additional tuition or fee charge. If a retake at Kirtland is not preferred and the student shows proof of enrollment in an equivalent course at another college, the college will refund the tuition and fees previously paid by the student for the Kirtland course or courses in question. The college recognizes that unused skills decay rapidly. The assurances offered herein are made for individuals who transfer or gain employment within a year of receiving a degree or certificate and are limited to courses numbered 100 or above completed at Kirtland Community College with a C grade or better. Furthermore, this assurance does not apply toward performance on licensing or civil service examinations. Finally, Kirtland Community College graduates must have initiated their program of study after May 1989.

Kirtland Community College graduates who are eligible to apply for compensation in accordance with Kirtland's Assurance of Quality policy must have their employer or transferring institution submit a completed Assurance of Quality Compensation Request form to the student services office.

GENERAL EDUCATION

Kirtland Community College is committed to the belief that all graduates should possess the skills and breadth of knowledge necessary to realize their potential to live full and productive lives. This belief forms the foundation of Kirtland's commitment to the process and goals of general education.

General education is the heart of the educational experience at Kirtland. General education seeks to make people intellectually well-rounded, whole, and complete. It comprises that core of knowledge and skills that educated people need regardless of what career or vocation they enter.

The pursuit of general education provides learners with the broad intellectual foundation necessary for continuing growth to achieve their potential and become successful lifelong learners in a changing world. General education provides the common knowledge and skills that enable us to understand one another, interact, collaborate to solve problems, and build an effective community.

Kirtland Community College seeks to achieve the aims of general education in three ways:

1. **The General Education Core**

Every degree-seeking student completes a core of courses that nurture foundational competencies in communication, scientific inquiry, mathematical reasoning, cultural and global awareness, and other areas.

2. **General Education Across the Curriculum**

All of Kirtland's degree courses, regardless of discipline, are designed to build upon, apply, and continue to nurture the development of the knowledge and skills acquired in the general education core.

3. **Extracurricular Programs and Events**

Kirtland seeks to extend, foster, and enrich the general education experience for its students through a variety of extracurricular programs and events, such as those listed below:

Kirtland Art Gallery

Cultural Events

Center for the Performing Arts

Community Education Program

Controlled Burn Reading Series

Global Awareness Program

Kirtland's Warbler Festival

Kirtland Youth Theatre

Performing Artists Series

Service Learning Program

Student Writing and Art Competitions

These and other cultural activities and programs at Kirtland help to foster intellectual curiosity, cultural enrichment, communication, critical thinking, diversity, lifelong learning, social and cultural awareness, and other general education goals.

COLLEGE OVERVIEW

ESTABLISHMENT OF THE COLLEGE

On March 7, 1966, in accordance with provisions of Public Act 188 of the Michigan Public Acts of 1955, Kirtland Community College was created by a vote of the electorate from six local K-12 school districts (Crawford-AuSable, Fairview Area, Gerrish-Higgins, Houghton Lake, Mio-AuSable and West Branch-Rose City). With this approval, the largest Michigan community college district was formed. The college's district totals 2,500 square miles and consists of all or part of nine counties. Approximately 65,000 people reside within the college's district.

LOCATION

Kirtland Community College, located close to the geographic center of the college's district, is accessible by F-97 from the north and south and by M-18 to County Road 603 from the west. The location is very rural and is approximately 170 miles north of Detroit, Michigan. Kirtland is surrounded by the following communities (approximate distances from the college are listed):

Grayling..... 30 miles

Fairview..... 40 miles

Frederic..... 35 miles

Houghton Lake 30 miles

Mio..... 30 miles

Roscommon..... 11 miles

Rose City..... 35 miles

St. Helen..... 8 miles

West Branch..... 25 miles

ACCREDITATION

Kirtland Community College is accredited by the Michigan Commission on College Accreditation and The Higher Learning Commission, a commission of the North Central Association of Colleges and Schools at 30 North LaSalle Street, Suite 2400, Chicago, IL 60602 (800-621-7440). The college also holds membership in the Michigan Community College Association and the American Association of Community and Junior Colleges.

The Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools granted Kirtland Community College status as candidate for accreditation in 1972, and the college has been accredited as an associate degree-granting institution since 1975.

Students wishing to view documents pertaining to the accreditation and licensing of Kirtland Community College should submit their request in writing to the President's office. The request will be processed within five (5) business days of receipt. Any request requiring the copying of more than 50 pages will be assessed a copy fee of .10 cents per page.

CALENDAR

Kirtland operates on a semester calendar. There are two 15-week semesters, starting in late August and mid-January. A shorter session is offered during the summer and begins in May.

DEGREES AND CERTIFICATES

Kirtland offers over seventy occupational (technical career oriented) certificate and degree programs and ten transfer degree programs. Transfer programs are designed for students planning to complete up to half of a bachelor's degree prior to enrollment at a university.

ENROLLMENT

Approximately 3,600 students are served annually by Kirtland through college level and community service classes. While 39 percent of Kirtland's students are under the age of 24, the average age is 27. Sixty-six percent of the students attend on a part-time basis. Most are employed at least part-time.

INTERCOLLEGIATE ATHLETICS

The mission of the athletic program is to provide men and women with the opportunity to learn and grow as a result of participating in a high-quality intercollegiate program. The program also attempts to improve student life and, in turn, improve the recruitment and retention of students. The athletic program also seeks to increase community involvement with Kirtland by providing sports entertainment at a level that previously has not been offered in the Kirtland region.

Kirtland competes in intercollegiate athletics as a member of the Eastern Conference of the Michigan Community College Athletic Association. Kirtland also competes in the National Junior College Athletic Association as a member of Region XII (Michigan, Ohio, and Indiana). The Kirtland Firebirds compete in men's and women's basketball, men's and women's golf, and men's and women's cross-country. For more information, call the athletic director's office at 989- 275-5000, ext 385.

M-TECSM AT KIRTLAND GAYLORD

Michigan Technical Education Center

The mission of the M-TECSM is to provide educational programs and services to individuals in preparation for employment. In addition, through workforce development, business and industry partners in the Northern Michigan region and their employees are provided with educational opportunities specifically designed to upgrade and/or enhance job skills necessary to compete in a local, state, national, and global economy.

Programs and Services

Programs and services have been developed in response to locally and regionally defined needs as determined by representatives of business and industry. Emphasis is placed on providing programs that lead to preparation for employment. To ensure that graduates are well prepared for entry into the workforce, special emphasis is placed on the ongoing assessment of student learning as each individual progresses through the various courses within each program.

Core Curricula

The M-TECSM serves postsecondary students who are interested in apprenticeship training, postsecondary degree programs, and job skills development. The specific programs at the M-TECSM include the following:

Certificate of Completion	Associate in Applied Science
Practical Nursing – Level I	Cardiac Sonography
Carpentry	Carpentry
Electrical Technology	Electrical Technology
Heating/Ventilation/AC/Refrigeration	Heating/Ventilation/AC/Refrigeration
Industrial Maintenance	Industrial Maintenance
Industrial Processes Technician	Outdoor Power Engines
Outdoor Power Engines	Welding and Fabricating
Welding and Fabricating	

Workforce Development

Workforce development programs serve specific employers in the region and their current employees who are seeking job skill upgrades and/or personal growth. A key component of the mission of the M-TEC is to provide to business and industry partners educational opportunities through customized training and contracted education. These educational opportunities are specifically designed to upgrade and enhance the job skills necessary to compete in a local, state, national, and global economy. Workforce development courses are custom designed to fill a specific need and include but are not limited to: welding, manufacturing, construction, and information technology; human resources; leadership and supervisory skills; and MIOSHA safety training and business practices. For additional information about workforce development educational opportunities, please call 989-705-3601.

Placement Testing

Compass tests are used to determine a student's placement in English, reading, and math. WorkKeys^R tests are used to assess the core competency levels of reading, math, locating information, and writing. Students seeking a certificate of completion or associate degree are required to take one or both of these tests. For more information, please call 989-705-3600.

Career Readiness Course Offerings

Individuals with identified learning needs will enroll in custom-designed courses provided through the use of PLATO^R Software. PLATO^R Software has been designed to interface with the WorkKeys^R test and will automatically navigate a student to learning modules designed to meet their individual learning needs.

Dual Enrollment

Kirtland Community College partners with area high schools to provide career and technical dual-enrollment opportunities to qualified high school students. For additional information, please call 989-705-3605.

Program Delivery

The M-TECSM delivers programs and training through traditional classroom delivery and open learning, allowing the student to use printed materials, computer-aided instruction, and hands-on training activities to support self-directed, instructor-guided, student-centered learning. The emphasis on the open learning environment at the M-TECSM promotes flexible scheduling and individualized learning opportunities to better meet the needs of the student, as well as employers in the region.

The M-TECSM Facility

Construction of this facility began in July 2000 and was completed in time to begin offering a full complement of programs and services beginning in January 2002. The M-TECSM facility has been designed by business and industry for business and industry. Using the expertise and input of local and regional manufacturing, building trades, and technology professionals, architects and engineers have created a 28,000 square-foot facility capable of supporting the current and future workforce development training needs of the region.

The M-TECSM facility contains both a precision tool and general manufacturing lab, a construction technology lab, a welding lab, a computer-aided drafting and manufacturing design lab, a nursing lab, and a sonography lab as well as classrooms that support general and computerized instruction. A Learning Resource Center is available to students enrolled at the M-TECSM as a result of the partnership with the University Center at Gaylord. For information, contact the M-TECSM at Kirtland-Gaylord at 989-705-3600.

Residency Rules

In-District Residency

A new student planning to attend classes at the M-TEC must provide proof that he/she has lived in Otsego County or the Kirtland Community College district for a period of five months immediately prior to attending the M-TEC. Acceptable proof includes one of the following: Driver's license, Secretary of State identification card, voter registration card, place of residence property tax receipt, five months rental receipts with address. A returning in-district student will continue to be considered in-district if he/she can prove he/she continues to live in Otsego County or the college district.

Out-of-District Residency

A new student planning to attend classes at the M-TEC will be considered out of district if he/she cannot prove in-district residency but can prove that he/she has lived in Michigan at least one month prior to attending the M-TEC. Acceptable proof includes the following: Driver's license, Secretary of State identification card, voter registration card, place of residence property tax receipt, rental receipt with address.

A student who resides outside Otsego County or the Kirtland district can be assessed an in-district tuition rate if he/she provides the college with property tax receipts showing tax payments to the college, as long as the property is owned by the student or the student is a dependent of the person who owns the property. A returning out-of-district student will be considered in-district if he/she can prove in-district residency as a non-student for a period of five months immediately prior to returning to the M-TEC or Kirtland.

STUDENT PROFILE (2007 Fall Semester)

Total enrollment: 2,317

Student Gender:

Males 47%
Females 53%

Student Age Distribution:

24 and under 42%
25 to 39 33%
40 to 59 22%
60 and older 2%
Unknown under 1%

County of Residence:

Crawford 12%
Ogemaw 16%
Oscoda 7%
Roscommon 21%
Other 44%

Student Credit Hour Load:

Personal Interest 5%
Part-Time: 1-11.99 credit hrs 64%
Full-Time: 12 & over credit hrs 31%

Student Status:

FTIAC (first time in any college) 21%
Returning to KCC 70%
First-time Transfer 8%
Guest 1%

Student Program Areas:

Criminal Justice 6%
Health Careers 26%
Transfer 20%
Personal Interest 27%

Other 21%

2008-2009 COLLEGE CALENDAR

Approved by Board of Trustees. Dates are subject to change. Please check the current class schedule.

FALL 2008 SEMESTER

Fall 2008 Semester Begins Saturday August 23, 2008
Labor Day Break Saturday – Tuesday August 30-September 2, 2008
Thanksgiving Break Wednesday – Sunday November 26-30, 2008
Fall 2008 Semester Ends Sunday December 14, 2008

WINTER 2009 SEMESTER

Winter 2009 Semester Begins Saturday January 10, 2009
Spring Break Monday – Sunday March 2-8, 2009
Easter Break Friday – Sunday April 10-12, 2009
Commencement Friday May 1, 2009
Winter 2009 Semester Ends Sunday May 3, 2009

NOTE: Dates are subject to change. Please check the current class schedule.

DIRECTORY OF SERVICES

MAIN SWITCHBOARD

Telecommunication Device for the Deaf (TDD)

989-275-5000

989-275-6721

Offices

Extension

ADMISSIONS..... 284

This office is responsible for admission of all new students, new student recruitment activities, and admissions advising.

BOOKSTORE..... 273

Located in the student center, the bookstore provides textbooks, reference books, classroom supplies, clothing, gift items and souvenirs, some snacks, and miscellaneous sundries.

CAFETERIA..... 268

Located in the student center and is open Monday - Friday. Hours and specials are posted in the student bulletin.

CAREER AND EMPLOYMENT SERVICES..... 450

This office helps students research specific careers and career opportunities. Assistance with job search strategies, résumé writing, and interviewing techniques is also provided.

COUNSELING OFFICE..... 280

Michigan-licensed professional counselors are available in the student services office in the administration center to provide Kirtland students with academic, personal, and career counseling. The counseling staff will make use of a variety of test instruments when they work with students in order to help them learn more about their academic abilities, interests, personality type, and current level of self-esteem. The counseling process, aided often by such testing information, can help students make more informed personal, academic, and career decisions.

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The Department of Public Safety is located in room 127 in the administration center. Office hours are 8 a.m. to 11 p.m., Monday through Friday. Public Safety services include the following:

- After-dark escort service from buildings to vehicles
- Response to criminal behavior complaints
- Preventative workshops/seminars on drug/alcohol awareness, rape awareness, use of weapons, etc.
- The addressing of parking and traffic violations
- Provision of vehicle emergency assistance (keys locked inside vehicle, jump-starting vehicle, etc.)

FINANCIAL AID..... 257

This office helps students apply for financial assistance including grants, loans, scholarships and student employment.

LIBRARY..... 246

The library is open to the general community as well as all students. A variety of services are available, including full reference service, term-paper counseling, interlibrary loan, and online search service. See library for library hours and more information.

SERVICES FOR STUDENTS WITH DISABILITIES..... 252

This office assists students who need supportive services to succeed in their college courses. Examples of services include scribes, note-takers, readers, textbooks on tape, and sign language interpreters.

INSTRUCTION OFFICE..... 270

This office is located in the instructional center and is responsible for instructional matters that include the class schedule, cancellation of classes, selection and supervision of career and technical faculty, and related grade appeals.

RECORDS/REGISTRATION OFFICE..... 251

The responsibilities of this office include course registrations, schedule adjustments, program changes, enrollment and graduation verifications, grade reporting, official graduation audits, maintain permanent academic records, issue academic transcripts upon student request, and transfer credit evaluations.

PHONE NUMBERS TO KNOW

MAIN SWITCHBOARD

Telecommunication Device for the Deaf (TDD)

989-275-5000

989-275-6721

Accounting..... 262, 337, 238
Admissions 284
Allied Health Lab 421
Auditorium 401
Automotive Lab 215

Biology Lab..... 417
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Business Conference Room 292
Business Office..... 239

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Emergency-Sheriff's Dept. 911

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Faculty Lounge 319
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Journalism Office 308

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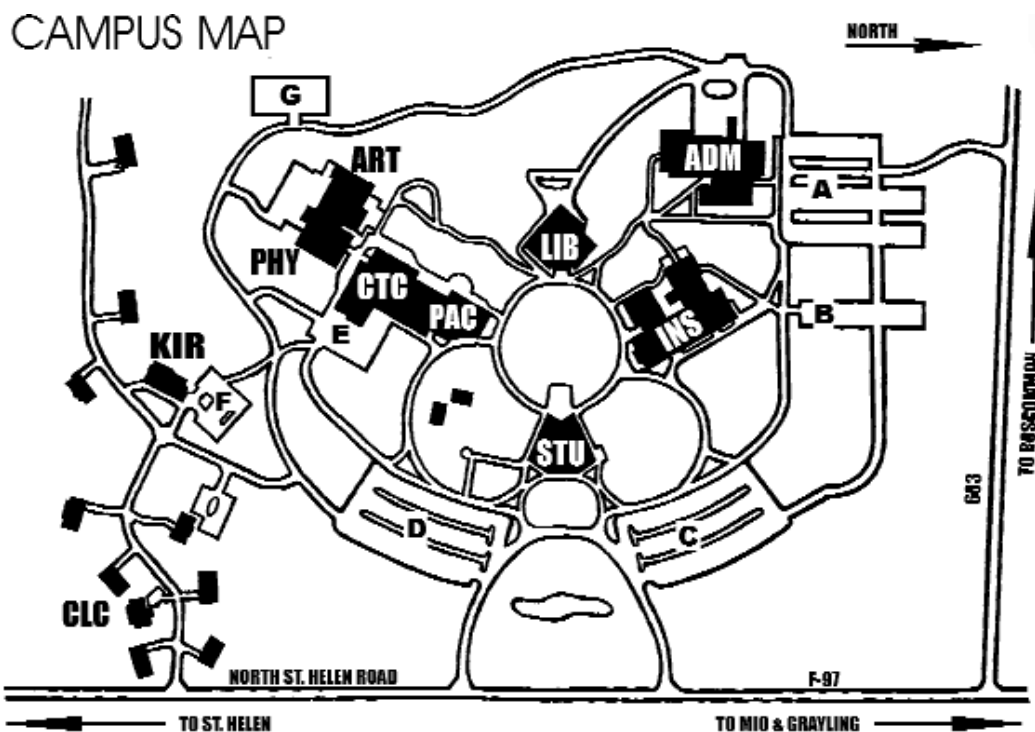
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COLLEGE MAPS



A-H - Parking lots.

ADM - Administration Center - Administrative offices; Accounting; Athletics; Business Conference Room; Business Office; Career & Employment Services; Computer Labs; Criminal Justice Program offices; DEV classrooms; Disability Services Office; Financial Aid Office; FLEX Lab; General, computer, and multimedia classrooms; Institutional Services; President's Office; President's Board Room; Records/Registration Office; Special Populations Office; Student Services (including admissions, counseling, housing, placement testing); Testing Center.

ART - Fine Arts Center - Art Department Office; Art Gallery; Art lab; Sculpture lab.

CLC - Children's Learning Center

CTC - Career Technology Center - Automotive lab; Cosmetology lab; Manufacturing lab; Welding lab; Faculty offices.

INS - Instructional Center - Faculty offices; General and computer classrooms; Biology lab; Chemistry lab; Developmental classrooms; Engineering Design Technologies lab; Health Careers offices; Honors Program Office; Nursing lab; Physics lab; Tutoring center.

KIR - Kirtland House - Conference Center; Art Gallery.

LIB - Library - Computer labs; eServices; ITV Room, Library facilities; Telecommunications Center.

PAC - Performing Arts Center - Kirtland Center for the Performing Arts; G.I. Stewart Auditorium.

PHY - Physical Plant - Printshop; Maintenance and Grounds Department; Shipping & Receiving.

STU - Student Center - Bookstore; Cafeteria; COOR offices; Game Room; Music lab; Student Senate Office; Switchboard; Public Safety & Security Office; Student Newspaper Office.

ADMISSIONS AND FINANCIAL AID

GETTING STARTED

ADMISSIONS POLICY

Kirtland Community College adheres to the "open door" policy of granting general admission primarily to all persons above the twelfth-grade age level. Depending upon the applicant's situation, either "regular" or "special" admission status will be granted.

Regular Admission

Regular admission will be granted to high school graduates and successful completers of the General Education Development (GED) test. Individuals who do not meet this requirement may also be granted regular admission by meeting "ability to benefit," as defined by federal regulations.

International students may be granted regular admission provided they meet certain English proficiency and financial requirements, as determined by the designated school official in the President's office.

Special Admission

Special admission will be granted to anyone who does not qualify for general admission. Persons admitted under this category will be restricted to non-degree/certificate-seeking status. The special admission category includes the following two groups:

1. Dual-Enrolled Student: a K-12 student who is also attending college. Dual-enrolled students are required to submit a Dual Enrollment form for each semester or session of enrollment. All dual-enrolled students must have written authorization to attend Kirtland from their school's principal or counselor. Dual enrollees must also take Kirtland's Placement Tests.
2. Non-High-School Completer: is a person who has withdrawn from high school, has not earned a GED certificate, and has not met the ability-to-benefit requirement.

Any person who desires either special or regular admission to Kirtland must complete an Application for Admission form. All students under the age of 18 must have parental or legal guardian consent.

Students being granted regular admission are encouraged to provide one of the following: (1) a high school transcript (with graduation date indicated), or (2) an official report of GED test results, verified by the college, showing test scores achieved by the applicant.

If regular admission was granted on the basis of the "ability to benefit" requirement, an official report showing test scores achieved by the applicant must be received and verified by the college.

Admission of Home Schooled Students

Most students attending college have earned a diploma from a public or private high school. Some students, however, have completed their high-school-level studies through a home school program. Parents of home schooled children are encouraged to register their program with the State of Michigan's Department of Education.

When a student attends a public or private high school, an official transcript (list of courses completed and grades earned by a student) is kept by the high school and made available to colleges upon a student's written request. In lieu of an official transcript, home schooled students are expected to provide a list of high-school-level courses completed and the grades earned in each course. If a home school diploma was awarded, a copy should also be sent to Kirtland's admissions office.

The Michigan Commission on Law Enforcement Standards (MCOLES) requires that criminal justice students complete a GED or a high school or adult education diploma, in addition to their home school diploma, in order to become certified.

Additional admissions requirements must be met by those students planning to enroll in one of the following programs of study:

- Criminal Justice Administration
- Criminal Justice Pre-Service
- Corrections Administration
- Correctional Officer
- Emergency Medical Services/Paramedic/EMT
- Nursing Level I - Practical Nursing
- Nursing Level II - Associate Degree in Nursing

Additional information about admissions requirements may be requested from an advisor or from the admissions office.

This admission policy will also be applied to returning students, regardless of their past admission status.

ADMISSIONS ADVISING

All students interested in being admitted to Kirtland for the first time are encouraged to make an appointment to see an admissions advisor. The advisor will help guide the student in completing all the steps necessary for a smooth entry into college. Tours, program requirements, and student services information are available for both students and their families.

TRANSFER OF CREDITS

Regionally Accredited Colleges and Universities

Credit may be given for courses transferred from regionally accredited colleges and universities. Credits only, not grades, are transferred for courses in which a grade of C or better has been earned. Students who received credit by departmental exam may be required to pass a Kirtland examination prior to the awarding of credit. Normally, a C- grade will not be accepted for credit when transferring to Kirtland. However, students may appeal to the dean or associate dean of their program to have the C- grade accepted. Students must appeal to the dean or associate dean in writing, stating reasons for acceptance of the grade. The dean or associate dean will consider the student's GPA from the previous institution as well as the student's Kirtland GPA in making the decision. Acceptance of the grade is at the dean's or associate dean's discretion, and his/her decision will be final. Courses on transcripts are evaluated by the registrar or designee according to the student's selected program.

The student's academic advisor will determine whether the awarded transfer credit may be applied toward the student's program of study. Students who want a transfer credit evaluation must request an official copy of their previous academic transcripts to be sent directly to the student services office.

Non-Regionally Accredited Colleges and Universities

Credit may be given for courses transferred from non-regionally accredited colleges and universities. The policy is the same as described above for "Transfer of Credit from Regionally Accredited Colleges and Universities," with the following exceptions:

1. The Registrar's office may choose to request a recommendation of transfer credit for the transcript in question from the academic advisor for the program in which the student has enrolled.
2. The student may be requested to demonstrate knowledge and/or skills commensurate with the performance required for satisfactory completion of existing courses.
3. Credit may not be granted.

Other Transfer Credits

Kirtland Community College recognizes the following opportunities for awarding transfer credits:

1. **College Board Advanced Placement Program (APP)**
College course credit will be granted to students who participate in the APP and pass the Advanced Placement examinations with a score of three, four, or five. Students must submit a College Action Report to the student services office for consideration of granting college credit.
2. **College-Level Examination Program (CLEP)**
College course credit will be granted to students who take a CLEP Examination and achieve the minimum passing score as recommended by the American Council on Education (ACE). Kirtland Community College does not award credit for all CLEP Examinations. A list is available in the counseling office that shows the CLEP Examinations acceptable for credit. Students must submit a CLEP transcript to the student services office for consideration of granting college credit.
3. **DANTES Subject Standardized Tests (DSSTs)**
College course credit will be granted to students who participate in the DSSTs and achieve the minimum passing score as recommended by the American Council on Education (ACE). A list is available in the counseling office that shows the DANTES Examinations acceptable for credit. Students must submit an official transcript to the student services office for consideration of granting college credit.
4. **Educational Experiences in the Armed Services**
Veterans may be awarded college credit for the service schools they attended and their work experience while in the U.S. military. The college awards credit based on recommendations provided by the American Council on Education (ACE). Students must have their official transcripts sent to the student services office for evaluation of military credit. Transcript request forms are available in the admission office.
5. **United States Armed Forces Institute (USAFI) Program**
College course credit will be granted to students who participated in the USAFI Program and achieved the minimum passing score as recommended by the American Council on Education (ACE). Students must submit an official transcript to the student services office for consideration of granting college credit.
6. **Articulation**
College course credit will be granted to students who have met the requirements of formal articulation agreements between the college and secondary educational institutions. Students must submit an Application for Articulation Credit form to the records office at Kirtland Community College for consideration of granting college credit. College policies concerning the transferability of articulated credit vary. Students should check with the college to which they plan to transfer to determine if the articulated credit will be accepted by that college.

Currently Kirtland has articulation agreements with the following secondary educational institutions: Alcona, Boyne City, Cheboygan, COOR-ISD, Crawford-AuSable, East Jordan, Fairview, Gaylord, Gerrish- Higgins, Hale, Hillman, Houghton Lake, Huron Area Technical Center, Iosco RESA Tech Center, Johannesburg-Lewiston, Mio, Onaway, Oscoda, Vanderbilt, West Branch-Rose City, Whittemore-Prescott, and Wolverine. For further information, students should consult with their high school counselor or contact the dean or associate dean of their program.

PROFICIENCY IN BASIC ACADEMIC SKILLS AND PLACEMENT TESTING

Kirtland Community College requires prospective students to demonstrate basic academic skill proficiencies in English, reading, and mathematics before they will be permitted to enroll in college-level courses. Acceptable ways in which a student may demonstrate proficiency in one or more of the basic academic skills include the following:

1. Submitting ACT test results. The ACT must have been taken within four years of enrollment at the college. Test results can be presented in person or mailed to the admissions office.
2. Submitting test results from the Advanced Placement Program, CLEP, or DANTES. Official transcripts must be sent to the admissions office. An Application for Admission must be on file for a credit evaluation to be completed.
3. Transferring credit for courses taken in English and mathematics at another college or university. Courses must be completed with a C grade or better. Official transcripts must be sent to the admissions office. An Application for Admission must be on file for a credit evaluation to be completed.
4. Enrolling as a "Personal Interest" student. A student is permitted to take one occupational-technical course, developmental education course(s), business seminar(s), and studio art course(s) without being required to test for such placements.
5. Taking developmental courses offered by the college in the basic academic skills of English, reading, and mathematics.
6. Taking the COMPASS Test within four years of enrollment at the college. The COMPASS Test will consist of tests for English, reading, and mathematics.

Further exceptions to the Proficiency in Basic Academic Skills and Placement Testing policy may be granted by the associate dean responsible for testing, or the dean of student services.

NEW STUDENT ORIENTATION

Practical information about campus procedures and college services are explained in the Student Orientation Guide, which is provided to new students when they take the COMPASS Test. New students, both new to the college experience and transferring from another college, find this information vital to their success at Kirtland. Please call the admissions office at 989-275-5000, extension 284, for more information.

PAYING FOR COLLEGE

TUITION AND FEES

Tuition

For current tuition and fee rates please refer to our website at <http://kirtland.edu/accounting/tuitionssummary.htm>.

Tuition and fees for M-TEC classes are available at <http://mtec.kirtland.edu/schedule>, or students may call (989)705-3600 for more information.

NOTE: Tuition and fees are subject to change without notice.

Payment for Classes

Upon registration, it is the ultimate responsibility of the student to pay tuition, fees, and other debts incurred at Kirtland by the appropriate due date listed in the current class schedule and on <http://www.kirtland.edu/accounting>. When registering in person, each student will be given a statement of account, with his/her class schedule. For students registering via myKirtland, it is the student's responsibility to view and print their charges from the "Account Detail" window on the Student Tab at MyKirtland. Statements will only be mailed upon request. Students with questions concerning their accounts are encouraged to contact the accounting office in the administration center at 989-275-5000, extension 218.

If payment in full is not received by the due date, the student's classes may be dropped. Once the semester begins, the student will be invoiced via the United States Postal Service if there is a reduction to aid, additions to class schedule, etc. Delinquent accounts will be turned over to a collection agency and the cost of such action will be added to the student's account. Students are not allowed to register for classes or receive transcripts until all financial obligations to Kirtland have been met.

Methods of Payment

Cash – Payment may be made in person at the Accounting Office located in the Administration Center. Cash should not be sent through the mail.

Check or Money Order – Payments can also be remitted to Kirtland Community College, Accounting Office, 10775 N. St. Helen Road, Roscommon, Michigan 48653. The student ID number needs to be included with the payment. A \$25.00 charge will be assessed for all NSF checks returned by the bank.

VISA, MasterCard, Discover - Students have the option of paying by telephone by calling 989-275-5000, extension 218, or online via myKirtland at: my.kirtland.edu. After logging in, click on the student tab. Then go to the account detail window, verify the semester, click submit and follow the payment instructions.

Employer or Sponsoring Agency - The accounting office can bill a student's employer or a state agency if a signed authorization or letter is submitted prior to the payment due date or at the time of registration. Written authorizations need to be submitted each semester.

Financial Aid/Loans/Scholarships - When a student's financial aid award is approved, the amount will automatically be credited as an "anticipated award" to his/her account. If the award does not cover the balance in full, the student is responsible for paying the difference by the due date. Also, if a student applies late for financial aid and the award has not been approved by the payment due date, the student must be prepared to pay. He/she may be reimbursed after the award has been posted as a "final" award to the account.

e-Cashier Payment Plan

Students with a tuition and fee balance of \$100.00 or more may be eligible for the e-Cashier Payment Plan offered through Nelnet Business Solutions. This plan enables students to make interest-free payments for tuition and fees via automatic transactions from a checking or savings account, American Express, DiscoverCard, or MasterCard. The cost to enroll is \$25.00 per semester. Tuition and fees may be budgeted for up to five months per semester. The earlier a student registers, the smaller the monthly payments can be. **If a student plans to make payments through Nelnet, an online application must be submitted by the payment due date or on the day of registration. Otherwise, the student's classes may be canceled.** After registering for classes, students can apply online by logging into myKirtlandWeb at: my.kirtland.edu. Once you are logged in click on the student tab. Go to the Account Detail window, verify the semester, and click submit. Then, click the e-Cashier icon at the very bottom of the page and follow the on screen instructions. Once the application is submitted, the student will receive an e-mail notification verifying the agreement. More information is available online on the accounting web pages at: www.kirtland.edu/accounting.

Residency

In-District Residency

A new student will be classified as in-district if he/she can prove that he/she has lived in the Kirtland college district for a period of five months immediately prior to attending Kirtland. Acceptable proof includes the following:

- Driver's license
- Place of residence property tax receipt
- 5 months Rental receipts with address
- Voter registration card
- Secretary of State identification card

A returning in-district student will continue to be considered in-district if he/she can prove he/she continues to reside in the district.

Out-of-District Residency

A new student will be considered out-of-district if he/she can prove residency within Michigan at least one month prior to attending Kirtland, but cannot prove in-district residency. Acceptable proof includes the following:

- Driver's license
- Place of residence property tax receipt
- Rental receipt with address on it
- Secretary of State identification card
- Voter registration card

A student who resides outside the district can be assessed an in-district tuition rate if he/she provides the college with tax receipts showing tax payments to the college, as long as the property is owned by the student or the student is a dependent of the person who owns the property.

A returning out-of-district student will be considered in-district if he/she can prove in-district residency as a non-student for a period of five months immediately prior to attending.

Out-of-State Residency

A student who cannot prove in-district or in-state residency will be considered out-of-state if he/she is a U.S. citizen, or if he/she is a registered alien who resides in the U.S.

An out-of-state student can change his/her classification to in-district in the same way that is described for out-of-district students.

International Student Status

A student who is not a U.S. citizen and who is attending Kirtland Community College under an F-1, J-1, or J-2 visa will be considered an international student.

REFUNDS

Tuition and fee refunds are based on the following schedule:

Full-semester courses

- 100 percent refund through and including the census date for the semester.

Open Entry/Open Exit Courses

- 100 percent refund prior to the start date indicated on the student's FLEX contract.
- No refunds as of the start date indicated on the student's FLEX contract.

All other courses

- 100 percent refund through and including the census date for the course.

Registration fees are nonrefundable. The college will follow any federally mandated refund schedules. Contact the accounting office for more information. Exceptions to the stated refund policy may be granted by the dean of student services.

Cancelled Class

Students registered for a course cancelled by the college will be refunded ALL tuition and fees for the cancelled course.

Federal Return of Funds/Repayment Policy

Under changes made by the Higher Education Reconciliation Act of 2005 (HERA), this policy focuses on the amount of Title IV program funds to be returned when a student withdraws from college prior to completing the semester. This policy applies only to students receiving Title IV aid (federal PELL grants, federal SEOG, Academic Competitiveness Grant and federal subsidized and unsubsidized Stafford Loans).

During the first 60% of the enrollment period, a student "earns" Title IV funds in direct proportion to the length of time he or she remains enrolled. Students who withdraw totally from the college without completing 60% of the enrollment period will be required to repay a portion of the aid received. For example, a student withdrawing after completing 10% of the enrollment period may need to repay up to 90% of the federal funds that were awarded.

A student's withdrawal date is:

- The date the student began the institution's withdrawal process, or
- The midpoint of the period for a student who leaves without notifying the school.

The institution has the option of using the student's last date of attendance at a documented academically-related activity in lieu of any other withdrawal date.

The responsibility to repay unearned aid is shared by the school and the student in proportion to the aid each is assumed to possess.

The institution's share is the lesser of:

- The total amount of unearned aid, or
- Institutional charges multiplied by the percentage of aid that was unearned.

The student's share is:

- The difference between the total unearned amount and the institution's share.

Under the HERA, the amount of a grant overpayment due from a student is limited to the amount which the original grant overpayment exceeds half of the total Title IV grant funds received by you. Students do not have to repay a grant overpayment of less than \$50 to the U.S. Department of Education.

NOTE: Kirtland will bill students for any balance owed due to the College's return of funds. A student who withdraws may have charges not covered by financial aid, such as non-classroom-related items charged at the bookstore, which must be paid by the student.

FINANCIAL AID

The Kirtland Community College financial aid office endorses the philosophy that the primary source of support for a student should come from his/her own family. However, to the extent funding will allow, Kirtland will try to assist a student with financial aid when the family is unable to meet college expenses. Approximately two out of three students receive financial assistance through scholarships, grants, loans, and/or student employment.

Financial aid is a privilege, not a right. Therefore, it is the student's responsibility to: (1) obtain and file the appropriate forms; (2) maintain the correct address on file; (3) respond promptly and fully to all requests for information; and (4) understand and comply with the rules governing the aid received.

HOW TO APPLY FOR FINANCIAL AID

All students wishing to be considered for federal financial assistance (including student loans and work study) must complete and file the Free Application for Federal Student Aid (FAFSA) available online at www.fafsa.ed.gov. FAFSA's are also available by calling 1-800-4FED-AID available online. This is not an application for any particular form of aid; rather, it is an application **for needs analysis**, on which many federal and state aid programs are based.

Within 30 days after submitting the FAFSA, the student will receive his/her copy of the Student Aid Report (SAR). If there are any problems, errors, or questions, the student should contact the financial aid office. The SAR will be used to determine which programs the student is eligible for and how much can be awarded. The student may need to provide supporting documentation for information provided on the FAFSA.

A student's application for aid at Kirtland will not be considered finalized until the following items are completed:

1. The applicant has been officially admitted to Kirtland Community College.
2. The financial aid office has on file the following documents:
 - Student Aid Report (SAR) from the federal processor and, KCC Financial Assistance Form;If selected for verification:
 - Verification Worksheet
 - Income documentation: federal income tax returns and/or other sources of income
 - Other information as requested
3. The applicant has been packaged for aid and mailed a letter by the financial aid office listing the award(s) he/she is expected to receive.

HOW THE FINANCIAL AID FORMULA WORKS

Most federal and state financial aid is awarded on the basis of demonstrated financial need. The formula used to determine who has need and who does not is actually quite simple. The following equation is used:

$$\text{Student Budget} - \text{Expected Family Contribution} = \text{Financial Need}$$

Student Budget is the cost of attending college (tuition, fees, room and board, transportation, books, supplies, etc.).

Expected Family Contribution is taken from the student's Student Aid Report.

Financial Need is the maximum dollar amount of need-based aid from the various sources for which the student is eligible.

A student will not necessarily receive financial assistance up to the maximum dollar amount for which he/she may be eligible. The various sources of aid have maximum award amounts and may be further affected by limitations in the availability of funds. Loans may be available if grant aid is insufficient. Inquire at the financial aid office if additional funding is needed.

Applicants' answers to certain questions will determine whether they are considered "dependent" (still part of a parent's family unit) or whether they are "independent" (has formed their own family unit). Students are classified according to family unit because federal student aid programs are based on the idea that students and their parents or spouses (if applicable), have the primary responsibility for paying for their postsecondary education. To be considered "independent," at least one of the following must apply to the student:

- turns 24 before January 1 of the academic year for which aid is sought.
- is a veteran of the U.S. Armed Forces.
- is an orphan or ward of the court until age 18.
- is married.
- financially support dependent children.

HOW DO STUDENTS PAY FOR CLASSES IF THEY HAVE FINANCIAL AID?

At time of registration, and if and only if all financial aid paperwork has been received and processed by the financial aid office, a student may charge college costs (tuition, books, supplies, and certain fees) up to the amount the student has been awarded in aid. If a student does not have all paperwork completed at time of registration, the student will be obligated to make other arrangements for payment and may be required to pay in full. Students must be aware that financial aid is always subject to change without prior notice if changes occur in the student's enrollment status, class attendance, personal circumstances, or in federal or state guidelines.

The student is responsible for all college bills not covered by financial aid. All charges incurred during a semester that are not covered by financial aid must be paid by the student before the student will again be allowed to register.

FINANCIAL AID AND WITHDRAWALS

A student who withdraws, ceases attendance, or is expelled may have charges and financial aid adjusted according to the time and circumstances of cessation of enrollment. Students should refer to the refund schedules, which are published in the current class schedule. Failure to attend class without officially withdrawing may void financial aid, leaving the student responsible for all charges. Students must advise the student services office in writing in order to withdraw.

OVERAGES AND REFUNDS

Overages, or payments due the students from their awards after charges have been deducted, will be start to be made available approximately the fifth week of class. Thereafter, additional overage checks are run approximately twice a month throughout the semester. Exceptions are for: student loan borrowers whose checks are generally distributed 30 days into the enrollment period; work-study pay checks, which are issued biweekly; and those students who are enrolled in modular coursework programs.

STANDARDS OF SATISFACTORY ACADEMIC PROGRESS

To be eligible for financial aid, students must be in Good Academic Standing and making Satisfactory Academic Progress, as defined below, toward the completion of a one-year certificate or degree program. This policy applies to all students receiving assistance from any financial aid program administered by the Kirtland Community College financial aid office. This policy is separate from the college's general probation policy and is monitored at the completion of each semester of enrollment. The following standards must be met to continue to receive financial aid:

Good Academic Standing

Good Academic Standing means maintaining a current grade point average (GPA) of 2.00 or better. In addition, once the student has completed a cumulative total of 60 credit hours, the student must maintain a cumulative GPA of 2.00.

Satisfactory Academic Progress

Satisfactory Academic Progress means that the student is making reasonable progress toward completion of a degree or certificate program. For each semester of enrollment, students must satisfactorily complete 66% of the credits for which they were awarded aid.

A student shall not receive financial aid for credit hours taken beyond a maximum of 150 % of the published length of their declared program of study. Upon completion of a program of study, a student may be considered for financial assistance up to a maximum of 150 % of a new program of study. Kirtland Community College limits financial aid eligibility to a maximum of three eligible certificates (without completing an associate degree) and no more than three associate degrees. In addition, the following rules also apply:

- Classes taken for audit will not be considered when determining eligibility.
- Incomplete (I) grades are considered as failures to complete unless and until changed to passing grades.
- No more than 30 credit hours of remedial classes will be approved for financial aid.
- Repeated courses will be allowed only if the previous course grade was less than a 1.00.

PROBATION/TERMINATION

Any student failing to meet the above standards will be placed on financial aid probation for the student's next actual period of enrollment (unless a period of at least four calendar years has elapsed, in which case the student may be considered for a one-time-only waiver). A student will continue to receive financial aid during the probationary semester. The student must complete a minimum of six credit hours to be considered for removal from probation. Failure to do so will result in termination from future financial aid. In the case of a student who has exceeded the allowable semester limit, all requirements for graduation should be met during the probationary semester as no further financial aid will be granted.

REINSTATEMENT

Except for students exceeding the time limitations within a degree or certificate program, a student may regain eligibility for financial aid by enrolling for a semester and satisfactorily completing, at his/her own expense, a minimum of six credit hours. It is the student's responsibility to notify the financial aid office when satisfactory academic progress has been met.

Students should be aware, however, that all of the above listed requirements are applicable whenever financial aid is being considered, whether or not any previous courses were taken at the student's expense. The only exception to this policy shall be in the instance where a student applying the first time for financial aid, who has a prior record of unsatisfactory progress but has been allowed by the college to enroll, may be considered for financial aid for one probationary semester. As stated previously, satisfactory completion of probationary requirements will remove the probationary status.

APPEALS/SPECIAL CIRCUMSTANCES

All students have the right to appeal any decision or action taken regarding their financial aid. Appeals may be made in written form to the director of financial aid. The student must explain any mitigating circumstances and be prepared to provide all reasonable proof or documentation requested. A committee decision is final. The result of an appeal will be recorded and kept on file.

Any student who feels his/her family has special circumstances that might affect the amount the family can contribute, may request, in writing, a professional judgment analysis by the financial aid office. Special circumstances include unusual medical or dental expenses; tuition for children attending private school; or recent unemployment of the student, his/her spouse, or parents. The director of financial aid will review the request to determine if circumstances meet professional judgment guidelines. Any decision made in this regard is final and cannot be appealed to the Department of Education.

CONFIDENTIALITY OF RECORDS

Information contained in the financial aid file is strictly confidential and will not be released without the prior written approval of the student. However, departments within the college may be provided information on a "need-to-know" basis. Files are generally destroyed after five years.

STATEMENT OF COMPLIANCE

Financial aid is awarded in compliance with all pertinent federal and state laws and regulations, without regard to race, creed, color, religion, national origin, sex, age, or handicap, except as provided under federal and state laws and regulations.

STUDENT EMPLOYMENT

Part-time student employment is offered both on and off campus. The federal and state government and Kirtland Community College provide work-study dollars which fund the student employee program. Off-campus employers may be obligated to contribute matching funds. The goals of the program are to provide employment experience, the opportunity for community service, and additional financial assistance to students. Students are paid an hourly rate for the work they perform.

Students must file the Free Application for Federal Student Aid form (FAFSA) before consideration for student employment and attend a student employee orientation.

STUDENT EMPLOYMENT HANDBOOK

The purpose of the Student Employee Handbook is to inform students of the general provisions and regulations of work study, a financial aid program that provides valuable job experience through student employment. This booklet includes responsibilities of student employees and their supervisors, how to complete a time sheet, office conduct, student employee evaluation process, and forms. Contact the financial aid office for a copy.

SOURCES OF FINANCIAL AID

There are many different types of student financial aid. Almost all, including state and federal grants, student loans, work-study, and even many scholarships, require the filing of the Free Application for Federal Student Aid form (FAFSA) for a determination of "financial need." Financial aid is classified in the following manner:

Grants - do not have to be repaid; awarded on the basis of demonstrated financial need.

Scholarships - do not have to be repaid; based upon academic performance and/or special circumstance. Demonstrated financial need may be considered.

Student Loans - must be repaid. Interest rates and repayment options are regulated by federal law and may change year to year.

Work-Study - is part-time work during the school year and vacation periods. Demonstrated financial need is typically considered.

GRANTS

ACADEMIC COMPETITIVENESS GRANT

This grant program is available only to Pell eligible students that graduated from high school on or after January 1, 2005 and completed a rigorous high school program. Students must complete the FAFSA and acknowledge completion of a rigorous program of study. The College is required to obtain a final high school transcript and evaluate before an award can be made. Freshman may receive up to \$750 and sophomores may receive up to \$1300.

BUREAU OF INDIAN AFFAIRS (BIA)

The student must be a registered member of a federally recognized American Indian tribe, be enrolled in a public college or university, and demonstrate financial need. For more information, contact Bureau of Indian Affairs, Federal Square Office Plaza, Box 884, Sault Ste Marie, MI 49783. Phone: 906-732-6809.

FEDERAL PELL GRANT

The Federal Pell Grant is awarded to undergraduate students demonstrating financial need. Students must complete the FAFSA. For the 2008-2009 academic year an annual award of up to \$4731 is possible. Awards are pro-rated based on the actual enrollment level of the student each semester.

MICHIGAN TUITION INCENTIVE PROGRAM (TIP)

The student must be from a low-income family and must have graduated from high school or completed a GED prior to age 20.

If the student is eligible, the state will pay tuition and mandatory fees at Michigan community colleges and some universities. TIP does not cover course fees and coverage is limited to 24 credits per academic year. Applications should be submitted to the state no later than the senior year in high school, although eligibility may be established as early as grade seven.

MICHIGAN ADULT PART TIME GRANT

This is a State of Michigan grant designed to provide assistance to part-time adult undergraduate students. Students must complete the FAFSA and meet other eligibility requirements. The maximum full year award is \$600.

MICHIGAN EDUCATIONAL OPPORTUNITY GRANT

This is a State of Michigan Grant designed to provide assistance to undergraduate students. Students must complete the FAFSA and meet other eligibility requirements. The maximum full year award is \$1000.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (SEOG)

This grant is awarded as a supplement to the PELL Grant to students showing exceptional need. Priority is given to students with the lowest expected family contribution as determined by the FAFSA. The typical award at Kirtland Community College is \$200 a year.

SCHOLARSHIPS**MICHIGAN COMPETITIVE SCHOLARSHIP**

This is a state scholarship awarded to eligible Michigan high school graduates. Applicants must have a qualifying score from the ACT and have financial need as determined by the FAFSA. The maximum full year award is \$1300.

MICHIGAN MERIT AWARD SCHOLARSHIP

The student must score well on the MEAP exams while in high school. The state makes the award, and it is disbursed by the college.

MICHIGAN NURSING SCHOLARSHIP

This is a state scholarship restricted to students pursuing nursing. The maximum full year award is \$4000. The state allocates the funds and the College selects recipients. Students must repay the scholarship if they do not work as a nurse in Michigan.

MICHIGAN PROMISE SCHOLARSHIP

This new state funded scholarship is available to students graduating from high school beginning 2007. Similar to the Merit award, students must have met certain scores on the Michigan Merit exams. Annual award is \$1000 for a possible program maximum of \$4000.

SCHOLARSHIPS/GRANTS OFFERED BY KIRTLAND COMMUNITY COLLEGE**ATHLETIC SCHOLARSHIP**

This scholarship is awarded to select students participating in Kirtland's athletic programs. Contact the athletic director for details.

DEPARTMENTAL SCHOLARSHIP

This scholarship is limited to Kirtland students who have completed, or are in the process of completing, at least 24 college credits, of which at least 12 must have been taken at Kirtland. Consideration is given to the student's overall GPA, the program GPA, and the program advisor or instructor's recommendation.

GILBERT I. STEWART SCHOLARSHIP

Students must have graduated from high school within the past academic year with a minimum GPA of 3.50.

KIRTLAND HONORS SCHOLARSHIP

Students must have been accepted into the Kirtland Honors Program.

KIRTLAND INDIAN TUITION WAIVER

The student must have been a Michigan resident for at least 12 months and be certified by his/her tribal association as not having less than 1/4 blood quantum.

MICHIGAN ARMY AND AIR NATIONAL GUARD TUITION WAIVER

A 25% tuition waiver is available to degree-seeking members of the Michigan Army or Air National Guard.

PRESIDENT'S SCHOLARSHIP

Students must have graduated from high school within the past academic year with a minimum GPA of 3.00.

SENIOR CITIZEN SCHOLARSHIP

Students must be residents of the Kirtland district, age 60 or over. Students should refer to the current class schedule for details.

SCHOLARSHIPS/GRANTS SPONSORED BY THE KIRTLAND FOUNDATION**ANN AND LAWSON CHAMBERS SCHOLARSHIP**

This scholarship is limited to students who are residents of Rose City and Lupton.

AUTOMOTIVE EXCELLENCE SCHOLARSHIP

This scholarship is limited to sophomore level students pursuing a certificate or degree in automotive technology.

CARL J. DARLING JR. MEMORIAL SCHOLARSHIP

This scholarship is limited to criminal justice pre-service students entering the Police Academy. Students must have a GPA of 2.5 or better.

MILDRED DEBOLT SCHOLARSHIP

This scholarship is limited to students majoring in English.

DONALD N. FENTON MEMORIAL SCHOLARSHIP

This scholarship is limited to sophomore level students planning to transfer to a university/college to study environmental science, teaching of environmental sciences or teaching of science. Minimum GPA of 2.5.

JAMES D. FRYFOGLE MEMORIAL

This scholarship is limited to Kirtland Level II Associate Degree Nursing students who maintain a minimum 3.00 GPA in their core courses and a minimum 2.50 GPA for all other courses. They must also be residents of the college district.

MARGUERITE GAHAGEN SCHOLARSHIP

Students applying for this scholarship must be majoring in journalism at Kirtland. They must have earned a 3.00 GPA. Preference is given to those who reside in Roscommon County and/or show financial need.

WILLIAM INGLESON MEMORIAL SCHOLARSHIP

This scholarship is limited to students pursuing a career in counseling.

JEAN KING MEMORIAL

This scholarship is limited to students majoring in fine arts or commercial arts at Kirtland. They must be residents of the college district. First preference will be given to residents of Ogemaw County.

OTTO AND MARTHA KRAUSS HONORS SCHOLARSHIP

Students must be admitted to the Kirtland Honors Program.

RON & MELANIE MARINO MEMORIAL SCHOLARSHIP

Students must be seeking a degree or certificate on at least a half-time basis. Applications will be reviewed based upon a Statement of Goals, an instructor's recommendation, and an evaluation of financial need. Employees or immediate family members of Weyerhaeuser Company shall receive first consideration.

HERBERT AND EVELYN MILLER SCHOLARSHIP

This scholarship is limited to Kirtland Level I LPN students who maintain a minimum 3.00 GPA in their core courses and a minimum 2.50 GPA for all other courses.

HERBERT F. POEHLE MEMORIAL

This scholarship is limited to students majoring in fine arts at Kirtland Community College.

THE KEITH RICH TRUST

This scholarship is limited to students enrolled in nursing or other medically related programs at Kirtland. Applicants or their parents/guardians must be residents of Lyon Township, Roscommon County, Michigan.

PATRICK J. TRAHAN MEMORIAL

This scholarship is awarded in recognition of academic performance in chemical science, with preferential treatment given to those students pursuing a career in conservation or natural resources.

MARGUERITE D. WILTSE MEMORIAL SCHOLARSHIP

This scholarship is limited to students from Crawford, Ogemaw, Oscoda and Roscommon Counties pursuing health careers. Preference is given to those students with financial need.

SCHOLARSHIPS SPONSORED BY OUTSIDE AGENCY**JANET SIEB MEMORIAL SCHOLARSHIP**

This scholarship is limited to full-time students in a business or office information systems program. Applicants must be residents of the college district and demonstrate financial need.

OTHER SCHOLARSHIPS

Many other particular and unique scholarships may be available from corporations, associations, agencies, clubs, churches, and foundations. It is recommended that interested students make inquiries of their high school counselor, their local Chamber of Commerce, their place of employment (or their parent's), any organizations to which they or their parents may belong, and the financial aid office.

STUDENT LOANS

NOTE: Loan eligibility criteria are subject to revision. Contact the financial aid office for current procedures.

FEDERAL FAMILY EDUCATION LOANS - FFEL**Subsidized Stafford Loan**

This loan is for students enrolled at least half-time who demonstrate financial need beyond what is met by other financial aid. The federal government covers interest payments during periods of deferment. Students must file the FAFSA to have financial need determined.

Unsubsidized Stafford Loan

This is identical to the subsidized loan, except that the federal government does not pay the interest while a student attends classes.

PARENT LOAN PROGRAM (PLUS)

This loan is for parents of dependent students who have obtained the maximum financial assistance from other sources, including the PELL Grant and Stafford Loan.

ALTERNATIVE STUDENT LOAN PROGRAMS

Students showing need over and above all other sources of financial aid for which they have been determined eligible may apply for an alternative loan.

OTHER PROGRAMS AVAILABLE AT KIRTLAND**SPECIAL POPULATIONS GRANTS**

Attendance costs such as tuition, fees, books, supplies, uniforms, transportation, and/or dependent care may be covered for special population students enrolled in approved occupational programs or courses. Grants may be available to students with disabilities, students who are economically or academically disadvantaged, students with limited English proficiency, and also to the following students:

1. Single Parents, including single pregnant women, who are unmarried or separated from a spouse and have a minor child or children for whom the parent has either custody or joint custody, or who are unmarried or separated from a spouse and pregnant.
2. Displaced Homemakers, who have worked primarily without pay to care for the home and family and for that reason have diminished marketable skills, are also unemployed or underemployed, and have experienced difficulty in obtaining or upgrading employment. They must also have been dependent on the income of a family member but are no longer supported by that income or must be a parent whose youngest dependent child will become ineligible to receive Social Security assistance not later than two years after applying for the Title IV Social Security assistance.
3. Nontraditional Training and Employment Participants, who are preparing for occupations or fields of work, including careers in computer science, technology, and other emerging high-skill occupations, for which individuals from one gender comprise less than 25 percent of the individuals employed in each such occupation or field of work.

Students participating in these programs must apply for other appropriate federal financial assistance by completing the Free Application for Financial Student Aid form (FAFSA). Priority is given to those with the greatest financial need.

COMMUNITY SERVICE

Opportunities are available for students who wish to perform community service. Examples include, but are not limited to: welfare, social services, transportation, public safety, crime prevention and control, recreation, work in service opportunities or youth corps, specified services for agencies identified by the National and Community Service Act of 1990, mentoring activities, support services for disabled individuals, health care, child care, literacy training, education, housing and neighborhood improvement, rural development, and community improvement. For further information, contact the financial aid office.

VA EDUCATIONAL BENEFITS

Entitlement and Eligibility

Veterans, dependents, and selected reservists should contact Kirtland's financial aid office in the administration center to obtain accurate, complete, and current information concerning educational benefits.

Educational Benefit Programs available are the following:

1. Chapter 30, Montgomery GI Bill
Active Duty Educational Assistance Program
2. Chapter 31, Vocational Rehabilitation
Veterans with a compensatory service-connected disability that impairs employability
3. Chapter 32, VEAP
Non-contributory VEAP (Section 903)
Service beginning on or after January 1, 1977, through June 30, 1985
4. Chapter 35, Educational Assistance for Veterans' Dependents
Children and spouses of veterans who died of a service-connected disability or who are totally and permanently disabled from a service-connected disability
5. Chapter 1606, Montgomery GI Bill Selected Reserve Educational Assistance Program
6. Chapter 1607, Reservists called to active duty in response to war.

VA Application Process

VA application forms are available online at www.gibill.va.gov, or from the financial aid office located in the administration center. The application is submitted to the VA with copy 4 of DD-214 (separation papers), preferably certified by a county clerk.

If the student has previously drawn educational benefits elsewhere, the student needs to complete a Request for a Change of Place and/or Program form and have transcripts from other colleges sent to Kirtland for evaluation as soon as possible. Benefits can be suspended if credit evaluations are not reported to the VA before the student completes two semesters.

Pay Rate

Monthly rates vary according to which VA program is providing the assistance and the student's course load status: full-time (minimum of 12 credit hours); three-quarter time (9-11 credit hours); half-time (6-8 credit hours); less than half but more than one-quarter (4-5 credit hours); one-quarter time (3 credit hours).

Advance Pay

Students eligible for VA benefits may request an advance payment if they carry at least a half-time course load and the VA receives the enrollment certification at least 30 days before classes start. The advance check covers the initial month or partial month of the semester, plus the following month. This check is sent to the college, and the student receives it at registration. Subsequent checks are mailed to the student's mailing address or can be directly deposited to the student's financial institution.

Guidelines and Responsibilities

1. Generally, classes certified must fulfill graduation requirements.
2. VA payment is not ordinarily allowed for repeating a previously passed course.
3. Any changes in program of study, course load, address, etc., must be reported to the financial aid office.
4. If any eligible student certified for benefits fails to enter a course or withdraws officially or unofficially from classes, the VA will be notified.
5. Students having problems with receiving their education benefits should contact the VA at their toll-free number: 1-888-442-4551.
6. Monthly verifications are required by Ch. 30 students. Attendance may be verified by calling 1-877-823-2378 at any time on the last day of the month or later, or use WAVE Internet access: www.gibill.va.gov

Consequences of Dropping Classes

If a student receiving VA benefits drops a class after the first 30 days of a regular semester and the drop changes the student's status, the student may have to repay the money received for the class. If the student receives a failing grade in the course dropped, the student is paid until the last date of attendance. However, if the student receives a W grade, the student must repay the benefits received for that course unless the drop was due to circumstances beyond the student's control.

The first time a student withdraws from up to six credits, the VA will excuse the withdrawal and pay benefits for the period attended. A VA-eligible student must always contact the financial aid office before dropping courses to prevent payment problems.

Satisfactory Progress

A student receiving VA benefits needs to understand the college's policy regarding academic probation. When this policy allows, a VA student placed on probation may have a maximum of two consecutive semesters to raise the cumulative grade point average to a 2.0. Failure to do so will make the student ineligible for recertification, and unsatisfactory progress will be reported to the VA in writing.

The student may be recertified in the future under one of two conditions: (1) the cumulative grade point average is raised to 2.0, or (2) a request for resumption of VA educational benefits is submitted to the VA and the VA reinstates benefits based on evidence supporting the student's claim. The director of financial aid will assist the student in submitting a claim for reinstatement of benefits if there were mitigating circumstances that led to the unsatisfactory progress.

MICHIGAN ARMY AND AIR NATIONAL GUARD TUITION WAIVER

A 25% tuition waiver is available to degree-seeking members of the Michigan Army or Air National Guard. Applications are available from the office of Financial Aid in the administration center or by mail by calling 989-275-5000, extension 257.

SERVICEMEMBERS OPPORTUNITY COLLEGES (SOC)

Kirtland Community College is designated as an SOC. SOC is a network of more than 1,400 colleges and universities whose policies and programs are designed especially to help meet the higher education needs of service-members. Contact the student services office for more information.

CHILDREN OF VETERANS TUITION GRANT

Children of Michigan veterans whose death or total disability is connected with wartime service should also inquire about the Michigan Veterans Trust Fund. If they are Michigan residents and not over 25 years of age, they may be eligible for full or partial coverage of tuition and fee charges. Contact the Michigan Office of Scholarships and Grants at 1-888-447-2687 for details.

REGISTRATION AND ACADEMIC POLICIES

REGISTRATION PROCEDURES

All students are required to complete admissions requirements and procedures before registration for classes. Students register for classes according to instructions published each semester in the class schedule. Students may register online at specified times by using myKirtland at the following web site: www.kirtland.edu, in addition to registering in person.

A **registered student** is one who has completed the registration process, including arranging for payment of all financial commitments. A student must be registered for a class before he/she may attend the class. Questions concerning these procedures should be directed to the Office of the Registrar in student services.

Early registration is held just before the end of the fall and winter semesters and in the summer for the fall semester. This is an opportunity for students to secure their classes before the busier time of regular registration.

Regular registration is held just before the beginning of the semester or session. Both new and returning students may register for classes during this period.

Late registration is held during the first one or two days of a semester or session. Both new and returning students may register for classes during this period.

Online registration (myKirtland) is available to students during open registration periods. If a registration period is more than one week, although the registration office would be closed for walk-in registration over the weekend, students can register online throughout the weekend. You may access myKirtland through our home page at: www.kirtland.edu.

CREDIT HOUR LIMIT

Students enrolling for more than 18 credit hours for the fall or winter semester, or more than eight credit hours for the summer session, must receive permission from their dean, associate dean, or designee. In the instance where the college catalog lists more than 18 hours as a suggested semester load, students may register without additional permission.

COURSE ADJUSTMENTS (ADDS AND DROPS)

Add/Drop forms for adding and dropping courses can be secured from the student services office. Adds and drops should be approved by the instructor or advisor and are to be used only to improve the student's instructional program.

Adding a class

Students are expected to complete their registration during the regular registration period. However, if a student must add a course, it should be done before the end of the first week of the semester. No student will be allowed to add a class after the class has met more than two times without written authorization from the instructor of the course.

Dropping a class

Students are permitted to drop any class in which they are enrolled, provided they submit a request to officially drop the class to the Records/Registration office during the published drop period. Exact dates of the drop period are published in each semester's class schedule. (Please refer to the information listed in this catalog under "Withdrawal from Courses.").

COURSE REPETITION

A student may repeat any course previously taken or an equivalent at Kirtland Community College to improve his/her grade. Only the higher grade is credited when computing the grade point average, although both grades appear on the transcript.

If the student has achieved a C grade or better on the first repeat of a course, a second repeat will not be permitted. A student may not repeat a course more than twice. Exceptions to this policy may occur when a student desires reentry or progression within a particular program that requires current competency. These exceptions may be authorized by the program advisor. Other exceptions may only be authorized by the dean or an associate dean.

Students receiving financial assistance should check with the financial aid office before registration. Students should be aware that financial aid will not generally cover a repeated class if the prior grade was a D or better.

AUDITING OF COURSES

A student who wants to attend a course regularly, but does not wish to receive a grade or credit may register to audit the course. A student who audits a course is required to officially register, indicate the class is for audit on the registration form, and pay all tuition and fees.

A change from audit to credit or credit to audit must be approved by the instructor of the course. A Change in Audit Status form can be secured from the student services office; the form must be properly completed, signed by the instructor, and submitted to the records office in student services for processing.

Financial aid is not available for a course taken for audit. Students receiving financial assistance should check with the financial aid office to determine what effect the audit may have on their financial aid package.

GRADE REPORTING SYSTEM

Grades are issued at the end of each semester or session and become a permanent part of the student's record. Kirtland operates on two 15-week semesters and an 8-week summer session.

Students must go online to view or print grades each semester, grades are not mailed. Students should log into myKirtland at www.kirtland.edu, and select “Course History” link. Students can select specific semester grades, or by selecting “All Divisions, All Terms” students can view or print a complete unofficial transcript showing all grades earned, and prerequisites met by placement testing. Students who do not have access to a computer or the Internet can use the computers on the Kirtland campus, or they may request unofficial or official transcripts (see “Transcripts” for ordering information).

The following grades are computed in the semester/term and cumulative/career grade point average (GPA): A, A-, B+, B, B-, C+, C, C-, D+, D, D-, and E. While the current semester is in session, an IP designation may appear on the transcript to denote that the course is currently in progress.

Academic achievement is recorded as follows:

Grade	Definition	Honor Point Value
A.....	Excellent performance	4.0
A-.....	Excellent performance	3.7
B+.....	Above average performance	3.3
B.....	Above average performance	3.0
B-.....	Above average performance	2.7
C+.....	Above average performance	2.3
C.....	Average performance	2.0
C-.....	Below average performance	1.7
D+.....	Below average performance	1.3
D.....	Below average performance	1.0
D-.....	Below average performance	0.7
E.....	Failure.....	0.0
I.....	Incomplete	N/A
W.....	Withdrawal	N/A
AU.....	Audit.....	N/A
CR.....	Transfer Credit.....	N/A
R.....	Registrar Grade.....	N/A
S.....	Satisfactory	N/A
SA.....	Satisfactory - Grade A	N/A
SB.....	Satisfactory - Grade B	N/A
SC.....	Satisfactory - Grade C	N/A
SD.....	Satisfactory - Grade D	N/A
U.....	Unsatisfactory	N/A

The number of **honor points** received for a course is determined by multiplying the honor point value of the course by the number of credit hours. Therefore, a grade of B in a 4 credit-hour course is 12 honor points (3 x 4).

A **grade point average** is obtained by dividing the total number of honor points by the total number of credit hours graded. For example, a total of 32 honor points earned in a semester by a student enrolled for 16 credit hours equals a grade point average (GPA) of 2.00 for that semester.

TRANSCRIPTS

Unofficial transcripts are available online via myKirtland at www.kirtland.edu. Students can print an unofficial transcript by logging into myKirtland, then selecting “Course History” link.

Official transcripts are available from the records office in student services at no charge. Official transcripts include the college seal and are sent directly from Kirtland to the college, employer, or other location the student indicates. Unofficial transcripts do not have the college seal and can be given to the student.

A student requesting a transcript must do so in writing, include his/her student identification number and/or Social Security number, signature, and to whom and where (including address) the transcript is to be sent. Transcript requests can be sent by fax to (989-275-6789) and, if a FAX number is provided by the student, an unofficial copy may be faxed to another location.

NOTE: No transcripts will be issued to any student who has not met all of his/her financial obligations to Kirtland.

STUDENT RECORDS

In addition to academic transcripts, students' records are maintained by the records office in student services. A student record may include the application for admission, high school transcript, other college transcripts and the transfer credit evaluation, test results, correspondence, student progress reports, and other student information. Students may review their own student record any time during office hours with proper identification.

PROGRESS REPORTS

A progress report is initiated by an instructor to notify a student of poor academic performance or lack of attendance in the instructor's course. The progress report is submitted to student services offices (counseling, student support services, and financial aid), and copies are sent to the student and placed in the student's file.

STUDENT ATTENDANCE POLICY

Students are expected to attend every class and laboratory period for which they have registered. Regular class attendance is necessary for students to receive maximum benefits from their classes. Excused absences for participation in authorized campus activities shall in no way lessen student responsibilities for meeting the requirements of the class. Excessive absence may affect financial aid awards.

Regular attendance is expected of each student in each course. Instructors are required to determine reasonable attendance and satisfactory academic progress during the semester. Progress reports will be filed for students with poor attendance records. Financial assistance, whether Veterans Administration, federal and state grants and scholarships, student loans, work-study, or private funding, may be cancelled or reduced if attendance is unsatisfactory.

Since attendance is a legitimate basis for grading by instructors, students will receive progress reports for lack of attendance (see "Progress Reports"). If absent from class, students should explain the reason for their absence to their instructors.

INCOMPLETE GRADES

A student may request an incomplete (I) grade when he/she has found it impossible for reasons beyond his/her control to complete all required course work by the close of the semester. Upon the instructor's discretion, an incomplete grade may be granted.

If granting an incomplete grade, the instructor shall submit an Incomplete Grade Request form to the records office. If the course work is completed within the period prescribed by the instructor, the incomplete grade will be changed to the letter grade the student has then earned. If course work is not completed within the prescribed period, the incomplete grade will be changed to a failing grade.

WITHDRAWAL FROM COURSES

Students may withdraw from courses for which they are registered.

FULL SEMESTER COURSES

If a withdrawal is made before or on the census date for the semester, no grade will be recorded. However, for withdrawals made after the census date and through the twelfth week of the semester or through the sixth week of the summer semester, a grade of "W" will automatically be issued.

SHORT COURSES (Courses that are scheduled for less than a full semester)

A withdrawal must be made before the final exam is issued for the course. If a withdrawal is made on or before the census date for the course, no grade will be recorded. However, for withdrawals made after the census date of the course, a grade of "W" will automatically be issued.

FLEX COURSES

A withdrawal must be made before the final exam is issued or before the coursework is completed for the course. If a withdrawal is made before the course begins, no grade will be recorded. However, for withdrawals made after the course begins, a grade of "W" will automatically be issued.

Generally, a withdrawal from a course is the student's option. However, students who are enrolled in a program that has additional requirements may be required to withdraw from a course by their program advisor. As part of a disciplinary action, following due process, an "administrative withdrawal" may be authorized by the dean of student services.

WITHDRAWAL FROM COLLEGE

Students withdrawing from all classes (withdrawal from college) shall follow the same procedure as withdrawal from courses.

ACADEMIC PROBATION AND ACADEMIC DISMISSAL

Good academic standing is a status achieved by students who have earned a cumulative/career grade point average (GPA) of 2.0 and above. Cumulative/career credit hours attempted/graded and cumulative/career GPA will determine a student's good academic standing, probation, and dismissal status. The following schedule reflects probation and dismissal status:

0-5	Cumulative/Career Credit Hours Graded Probation Status: None Dismissal Status: None
6-11	Cumulative/Career Credit Hours Graded Probation Status: 0.00-1.99 Dismissal Status: None

12-17	Cumulative/Career Credit Hours Graded Probation Status: 1.00-1.99 Dismissal Status: 0.99 or less
18-23	Cumulative/Career Credit Hours Graded Probation Status: 1.26-1.99 Dismissal Status: 1.25 or less
24-29	Cumulative/Career Credit Hours Graded Probation Status: 1.53-1.99 Dismissal Status: 1.52 or less
30-Plus	Cumulative/Career Credit Hours Graded Probation Status: 1.80-1.99* Dismissal Status: 1.79 or less

NOTE: *Should the student not show academic progress (increasing cumulative/career GPA toward a 2.00) after completion of the next enrolled semester/session, he/she will be dismissed.

If a student is dismissed from the college and wishes to re-enter, he/she must submit an Application for Reinstatement form to the director of guidance and counseling for permission to re-enter as **a limited probationary student**. If permission is granted, the student will be allowed to reenter with enrollment restrictions as stated in a signed contract between the student and the director of guidance and counseling. Any adjustments to the limited probationary student's schedule must be approved by the director of guidance and counseling.

A limited probationary student will be dismissed again from the college if he/she is not showing academic progress (increasing the cumulative/career grade point average toward a 2.00), or if he/she does not meet all requirements as listed in the contract. Students being dismissed for a second time will automatically be required to sit out at least one semester.

Students being placed on academic probation or academic dismissal will be notified of their status by letter. The letter will be from the dean of student services.

ACADEMIC AMNESTY

Kirtland Community College understands that a student may "get off to a bad start" due to circumstances beyond his/her own control. Also, a student may enroll in a program that he/she later finds does not suit his/her needs. Both situations may result in a student experiencing poor academic performance. Academic amnesty is an action of forgiveness provided to certain students who have experienced poor academic performance at Kirtland Community College. Through academic amnesty, a student will be awarded a "second opportunity" to achieve success at Kirtland by removing the negative effect of less-than-C grade courses on the student's academic transcript.

To be eligible to apply for academic amnesty, a student must meet the following criteria:

1. Have a cumulative grade point average (GPA) of less than 2.00.
2. Complete at least six credit hours or more toward a new program of study while maintaining a 2.00 GPA or higher since beginning the new program.
3. Allowed one year to elapse between the poor academic performance period and requirement #2.

Once eligible, a student may petition the academic amnesty committee by requesting an Application for Academic Amnesty form from the counseling office, completing it, and returning it to that office. The applicant must meet with the director of guidance and counseling and agree to the conditions of academic amnesty.

The academic amnesty committee will review all requests for academic amnesty. Academic amnesty will only be granted for one continuous period of enrollment in a program at Kirtland Community College, as indicated by courses taken by the student that are directly attributable to that program.

Once amnesty has been approved by the committee, and applied by the registrar to the student's (petitioner's) transcript, the student will not be permitted to rescind the application of amnesty on his/her academic record. Other conditions include the following:

1. No course work will be removed from a transcript.
2. A special notation explaining amnesty approval will be placed on the student's transcript.
3. Honor points and credit hours attempted during the amnesty period will be subtracted from the current cumulative honor points and credit hours attempted. A new cumulative grade point average will then be established.

4. Courses successfully completed with a grade of C or better during the amnesty period can be used toward the student's certificate or degree requirements but do not count toward the student's GPA.
5. A student receiving academic amnesty will not be allowed to graduate with honors.
6. Academic amnesty, when granted, applies only to Kirtland Community College courses. There is no guarantee, expressed or implied, that academic amnesty will be recognized by any other college or university.
7. Academic amnesty can be granted only once to any student.

The registrar has the responsibility of implementing amnesty, as stated in the academic amnesty policy, when it is granted to a student.

CREDIT BY EXAMINATION

Students who believe they have achieved the equivalent knowledge and/or skills of a particular Kirtland Community College course may choose to take a competency credit examination.

A Kirtland student may request credit by examination by using the following procedure:

1. Contact the counseling office for a list of nationally recognized standardized tests that are equivalent to the Kirtland course the student desires. Information regarding testing fees and date, time, and location of the testing will also be provided to the student.
2. If a nationally recognized standardized test is not available, the student may contact the dean or associate dean of his/her program for an Institutional Credit by Examination Request form and the cost for the testing. The student will complete and submit the form to the senior instructor in the subject area of the examination requested. The instructor will review the request and submit his/her recommendation back to the dean or associate dean, who may approve or disapprove the request. If approved, a test will be developed, and testing will be scheduled.
3. Credit by examination scores will be handled in the following manner: If a passing score is achieved, credit will be noted on the student's Kirtland transcript. Cumulative grade point average, credit hours attempted, and honor points will not be affected.

COURSE SUBSTITUTION

Certificate and degree program requirements are listed in the college catalog. These requirements include all courses needed for completion. Any alteration to a degree or certificate (substitution of one course for another) must be made in the following manner:

1. To initiate a course substitution, a student must meet with his/her advisor. During the meeting, a Course Substitution Request form must be completed by the student and the advisor. The student's advisor will forward the form to the dean or associate dean of the student's program for possible approval. If approved, the form will be sent to the records office and placed in the student's file.
2. Required courses within a program may only be substituted under very unusual circumstances. No class may be substituted for POL-10100, Introduction to American Government.
3. Course substitutions should be submitted and approved before the student's registration for the semester in which the course substitution is to be made. If a student has received credit for courses transferred from another institution and desires a course substitution of the transfer credit for a required course, approval should be gained during the student's first semester at Kirtland.

GRADUATION REQUIREMENTS

Each candidate for graduation must fulfill the following requirements for an associate degree or certificate of completion:

1. Be granted admission to Kirtland Community College
2. Have completed a minimum of 15 semester hours of credit (100-level or above) at Kirtland
3. Have earned a minimum cumulative grade point average of 2.00 at Kirtland
4. Have completed all program requirements as listed in Kirtland's college catalog

NOTE: The date of the catalog by which a student's credits are audited for graduation may not be more than four years earlier than the date of the issuance of the degree or certificate. Student records may not be audited by a catalog dated earlier than the time of entrance. Exceptions may be authorized by the dean or associate dean of the student's program.

5. Have filed a Request to Graduate form with the records office at the beginning of the semester in which they plan to finish their required course work. Students should also check with their advisors when they register for that semester to be sure that all requirements have been met.

Graduation (commencement) ceremonies for students completing associate degree and certificate programs are held once a year on the last Friday of the winter semester. Participation in the graduation ceremonies is strongly encouraged, but not required. Cap and gown for graduation must be ordered before March 1. For more information about graduation fees, contact the registrars office at 989-275-5000, extension 251.

Students not wanting to participate in the ceremony, but who want a copy of their diploma, may contact the records office at 989-275-5000, extension 251, for ordering information. Payment must be received before a diploma will be ordered, then mailed to the student.

ACHIEVING SUCCESS

EXPLORING EDUCATIONAL CHOICES

COUNSELING SERVICES

College is a time of many changes and decisions and at times students may feel the need for help in coping with those changes and making those decisions. Kirtland's staff of Michigan-licensed professional counselors is trained to help students deal with the college experience.

Services provided include the following:

- Personal, career, and academic counseling
- Academic advising to assist a student in completing his/her educational plan, including transferring to another college
- Administering and interpreting interest and personality test instruments for students seeking career and educational information (no charge)
- Administering standardized tests for college credit (proctor fee and test publisher fee charged)
- Referral information for other available counseling services

Personal Counseling is helpful in situations where problems are persistent and bothersome to the point that discussion with another person is needed. Personal counseling on campus is available through the director of guidance and counseling. Long-term counseling is available through referral to community agencies that provide this service. The college maintains a referral list of local crisis centers and mental health clinics qualified and available for personal counseling.

CAREER AND EMPLOYMENT SERVICES

The career and employment services office, which is located in the administration center, offers a wide variety of services to individuals who desire assistance with career planning and preparation. Help is available with career exploration, job search strategies, résumé and cover letter writing, interview techniques, and employability skills. A number of resources are available in the form of books, magazines, videos, computer programs, and Internet access.

For individuals seeking employment, the Job List is published every week. The Job List contains postings from the local area newspapers, plus positions that employers call in and list with the career and employment services office. The Job List is posted in the career and employment services office or can be found on the Internet at: <http://kirtland.edu/employ>.

Career counseling is available to help determine employment possibilities based on an individual's abilities, aptitudes, and interests. Both written and computerized tests can be administered to assist with making sound career decisions. All of these services are free and available to students and community members.

NONTRADITIONAL CAREER CHOICES

If a student is considering a career field in which his or her gender comprises less than 25% of the workers in the field, there may be funds available to assist in paying for educational-related expenses. For more information, please call 989- 275-5000, extension 252. Examples of nontraditional areas for males are cosmetology, nursing, and office information systems. Nontraditional areas for females include automotive, engineering design technology, and welding.

SERVICE LEARNING

Service learning combines relevant community service experiences with academic courses. Service learning activities are academically meaningful. Kirtland Community College offers four courses as part of its commitment to service learning: Volunteerism in the Community (CAR-11500), Learning Styles (CAR-11600), Service Learning Lab (CAR-12600), and Service Learning Project (CAR-20000). Service learning projects are also offered as part of some classes at Kirtland. Seminars and classes relevant to service learning issues will also be offered through the Community Education Center. Additional service learning opportunities are tracked and made available by contacting the service learning coordinator at 989-275-5000, extension 412. A Service Learning Library has been established as part of the main collection in the library. A bibliography of material available in this collection is available.

PREPARING TO TRANSFER (From Kirtland to the senior institution)

Transfer students need to be aware of all deadlines, such as payment for tuition and fees, residence hall reservations, financial aid and scholarships, placement testing, etc.

Admission

Transfer students must apply early for admission to the senior institution they have selected. An application fee may be required. Many schools have application deadlines, as well as a limit on the number of new students to be admitted. To assist transfer students, representatives from many universities and some private colleges visit community college campuses every semester to talk with transferring students about their college or university.

A certain cumulative grade point average earned at the community college and/or the SAT or ACT test will usually be admission requirements at senior institutions. There may also be additional admission or program requirements. For example, a specific program may have fall admissions only.

Financial Aid

Students transferring during the current academic year will need to have a duplicate copy of their Student Aid Report (SAR) forwarded to the college/university. Transfer students should check with their new financial aid advisor to determine what other information may be required.

Transfer scholarships to senior institutions may be available to students transferring from a community college. Scholarship application deadlines usually fall between December and March each year.

NOTE: Some schools have separate scholarship application forms.

Campus Visit

Before transferring, students should visit the institution to which they plan to transfer, preferably during daytime campus hours. When visiting the campus, it is important that students talk to an advisor in their program of study.

Student Housing at the Senior Institution

Students in need of off-campus housing at the school to which they will be transferring should start looking at least four to five months in advance for the best selection. Most senior institutions have on-campus or family housing available. In some cases, transfer students must qualify to live off-campus.

Transferring Credit

Students must submit a written request for an official copy of their Kirtland transcript from the records office. This copy must be sent directly from the records office to the college or university of their choice. Upon the student's admission, the senior institution will perform a credit evaluation of his/her transcript.

When students transfer to a senior institution that operates on terms or quarters rather than semesters, they need to be aware of possible credit hour differences. For example, two (2) semester credits = three (3) term or quarter credits.

MACRAO Transfer Agreement

Kirtland Community College is a participating member of the MACRAO Transfer Agreement. Member colleges and universities participate in a state-wide transfer agreement proposed by the Michigan Association of Collegiate Registrars and Admissions Officers (MACRAO).

The intent of the MACRAO Transfer Agreement is to ensure that a student who completes a transfer degree will have satisfied the basic two-year requirements of the four-year college or university. This agreement can also be fulfilled if a student completes the following 30 credit hours of course work (100-level or above):

- A. English composition - 6 credits
- B. Science and Mathematics - 8 credits
(Courses may include but are not limited to the following: biology, chemistry, geology, mathematics or physics. At least one course must have a laboratory. Courses taken must be in more than one subject area.)
- C. Social Science - 8 credits
(Courses may include but are not limited to the following: anthropology, economics, geography, psychology, political science, or sociology. Courses taken must be in more than one subject area.)
- D. Humanities - 8 credits
(Courses may include but are not limited to the following: art, foreign language, history, literature, music, philosophy or theatre. Courses taken must be in more than one subject area.)

Transcripts of Kirtland Community College students graduating with a transfer degree will automatically have the "MACRAO Agreement Satisfied" designation added to the end of their transcript. Students just completing the 30 credit hour program, as stated above, **must request** that the designation be added to their transcript. Please contact the student services office for more information.

NOTE: Not all credits that are considered transferable to a senior institution's general education requirements may be used for specific programs of study. Students must be careful in researching credit transferability. More information regarding MACRAO can be obtained at MACRAO's website: www.macrao.org

SUPPORTING ACADEMIC SUCCESS

LEARNING RESOURCES

Library

The library serves the information needs of the Kirtland community and the public in the Kirtland service area. These needs are met by a professional staff who are able to help patrons find information in a variety of formats, including print and electronic. Reference services are available in-house, by phone, or email. In-depth reference assistance for term papers, speeches, and business plans, along with library instruction for classes and individuals, is available by appointment. For more information, call 989-275-5000, extension 246 or email the library at library@kirtland.edu.

Resources available in the library:

- a print collection of 30,000 volumes including books and reference materials
- over 15,000 e-books
- 200 audiobooks
- over 175 print magazines, journals, and newspapers
- access to more than 35 electronic databases

Information about the library's holdings may be viewed in the Kirtland Library website at www.kirtland.edu/library. Materials not available in the library may be obtained through inter-library loan. Internet connections and a variety of programs are available in the computer lab, which is also located in the library.

Open Hours for the Library

Fall and Winter Semesters

8 a.m. to 8 p.m., Monday through Thursday

8 a.m. to 4:30 p.m., Friday

Breaks and Summer Session

8 a.m. to 4:30 p.m. Monday through Friday

Term-Paper Counseling

Term-paper counseling is available in the library during library hours. This service helps students with topic selection and research. Stop in, call, email the library for an appointment.

eServices Department



The eServices department, located in the library building, consists of the eLearning and eTechnology divisions. We provide a single point of contact for a wide range of services delivered via internet, telephone, or in person. Our services include network operations, telecommunications, computer maintenance/installation and technical support, audio/video dubbing, media services support, and system account maintenance for email, course delivery, and student information systems.

For more information on eServices, eTechnology, and eLearning visit our web site: <http://eservices.kirtland.edu> or if you have any questions please feel free to either email us eservices@kirtland.edu, or call 989-275-5000 ext. 499 Monday-Fridays 8:00 a.m. – 4:30 p.m.

- **eLearning**

Primary responsibilities include support for distance education and technology enhanced courses including online internet classes, satellite video-teleconferences and interactive television. Additional duties include training and technical support for students and faculty using our course delivery system as well as maintenance of accounts for email, course delivery, and student information systems.

- **eTechnology**

Responsibilities include support and maintenance of all networks, telecommunications, and personal computer systems including technology enhanced classrooms, computer labs, printers, media services. Additional duties include general software support and technical support or "helpdesk" services.

FACULTY ADVISING

Faculty advisors assist students prior to and during registration with the selection of classes to meet individual educational needs. Faculty advising assignments are listed in the class schedule by program of study. Faculty advisors are available throughout the year for consultation and assistance with academic problems that may be interfering with a student's progress (see "Faculty Office Hours"). Starting in Winter of 2009, all first time in any college students are required to see an academic advisor before they will be allowed to register for classes.

FACULTY OFFICE HOURS

All faculty maintain office hours. Students are encouraged to take advantage of this time for discussion of future class selection, academic problems, or class assignments. Faculty office hours are posted in the hallway outside the faculty office area in the instructional center.

TUTORIAL CENTER

Tutors are available in most subject areas, and tutoring is free for any Kirtland Community College student. Individual appointments can be scheduled for up to two hours per week for an entire semester (or for as long as tutoring is needed) at a time convenient to both tutor and tutee. In addition, the following services are offered:

- Drop-in Math Tutoring by a paraprofessional tutor and successful math peer tutors is provided to those students needing occasional help in math classes. Drop-in Math Tutoring is available Monday through Thursday from 9am – 5pm in Room 20, Instructional Building.
- Study groups (Supplemental Instruction or SI) are available for students in the same class who can benefit by studying together under the guidance of a student leader.
- Study skills workshops are available covering such topics as note-taking, test-taking, textbook reading and time management; help is also available with spelling, vocabulary building, and memory improvement.
- Classes in English as a Second Language are offered through the tutorial center.
- Online writing tutoring is available through the OWL (see below).

Need for Tutors

Any student who is above average academically, can relate sensitively to other students, and has the recommendation of an instructor may apply to be a paid tutor. For an application or more information about becoming a tutor, contact the Tutorial Office in room 18 of the Instructional Building or call extension 211.

WRITING CENTER

The Writing Center is staffed by specially-trained members of the Kirtland English faculty and offers writing assistance to students seeking help with papers and writing projects. Drop-in services to help with specific questions or specific pieces of writing are available in the Writing Center, Room 17, in the Instructional Building, or appointments may be made. For further information, call extension 379 or 211.

An online writing service (similar to the on-campus drop-in services) is available through the Kirtland OWL (Online Writing Lab) located at: owl@kirtland.edu Be sure to follow the OWL guidelines located at: <http://kirtland.edu/tutoring/owl/owlguidelines.htm> to ensure that your submissions are received with the required information.

STUDENT SUPPORT SERVICES

The college, with partial funding from the Michigan Department of Labor and Economic Growth, provides support services to meet the needs of certain populations. Members of special populations include students who are economically or academically disadvantaged, students with disabilities, those with limited English proficiency, single parents (including single pregnant women), displaced homemakers, and students who are pursuing careers that are nontraditional for their gender. Support services and assistance to help them reach their career goals include the following:

- Education Development Plan (EDP)
- Free individual and group tutoring
- Workshops on study skills, test taking, and time management
- Personal, career, and academic counseling
- Referrals to other departments or community agencies
- Attendance costs
- Services for students with disabilities

SERVICES FOR STUDENTS WITH DISABILITIES

Students who qualify for services are identified under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Students must provide the special populations office with documentation of disability from an appropriate licensed professional, such as a medical doctor, psychologist, or psychiatrist. Verification of disability forms and a request form for auxiliary aides or services, academic adjustment or other accommodations are available in the student support services office. Some examples of services and accommodations follow:

- Instructional accommodations—scribes, readers, sign language interpreters
- Testing adaptations—extended time, oral examinations
- Technological assistance—wireless amplification devices, a reading machine
- Liaison with Michigan Rehabilitation Services and Michigan Commission for the Blind.

STUDENT ASSISTANCE PROGRAM

Kirtland Community College's Student Assistance Program has been developed in response to U.S. Department of Education directives and through the cooperation of local health care agencies. The program is designed to provide Kirtland students with help in dealing with emotional, medical, social, family, alcohol and/or drug abuse problems. Since such problems are considered treatable, students are urged to seek help before personal problems seriously damage academic performance or the future quality of their life.

The Student Assistance Program can help by:

- Providing the opportunity to discuss a personal situation with a caring professional
- Offering referral information on local agencies or specialized treatment services
- Suggesting a local support group sharing the same concern
- Providing information on the use and abuse of drugs including alcohol
- Providing information on how to deal with emotional, medical, social, or family problems

For a copy of the Student Assistance Program brochure, contact Kirtland's director of guidance & counseling at 989-275-5000, ext. 280.

RECOGNIZING EXCELLENCE

SCHOLARSHIPS

Scholarships that recognize academic excellence are available for both new and returning students. Please refer to "Scholarships" in this catalog.

HONORS PROGRAM

The Kirtland Honors Program is designed to meet the needs of students of high academic standing who are seeking additional challenges and rewards in both general education and occupational programs.

Honors students may earn honors credits in Kirtland "honors option" courses and in individually designed honors and service learning projects. Students who complete 12 honors credits may be awarded an honors degree.

Admission to the Honors Program is competitive, and enrollment is limited. Honors students enjoy a number of benefits, including the following:

- | | |
|--|--|
| • More challenging and stimulating course work | • service learning projects |
| • Interaction in a community of scholars | • All honors courses noted on transcript |
| • Honors options in regular Kirtland courses | • The opportunity to earn an honors degree |
| • New courses with an interdisciplinary focus | • Eligibility for honors scholarships |
| • An opportunity for independent study in special honors and | • Recognition at commencement |

Interested students should contact the honors secretary at 989-275-5000, extension 359. The office is located in the dean's office of the Instructional Building (INS).

HONOR LISTS

Each fall and winter semester, a President's honor list and dean's honor list will be issued. The President's and dean's honor lists shall consist of names of full-time (12 or more credit hours earned, excluding developmental courses) students whose current/term grade point averages are 3.800 to 4.000 (President's list) and 3.400 to 3.799 (dean's list) at the time grade reports (see "Grade Reporting System") are processed.

Credits earned in developmental courses will not be used when determining a student's full-time status. In addition, students receiving an incomplete grade ("I") for the semester will not be considered for either list. (However, honors notations will be posted to transcripts when completion of "I" grades results in grade point averages that meet honor list criteria.)

GRADUATION HONORS

Students may graduate with honors from Kirtland Community College providing they have met the following criteria:

- Completed all the requirements needed for a certificate or an associate degree
- Earned at least 15 credit hours at Kirtland if receiving a certificate or associate degree
- Achieved the cumulative grade point average (determined by the last completed semester) required for one of the following honors:

3.800-4.000 cumulative GPA	Summa Cum Laude
3.600-3.799 cumulative GPA	Magna Cum Laude
3.400-3.599 cumulative GPA	Cum Laude

The registrar will review transcripts of all candidates for graduation. Authorization to wear honor cords will be given by the registrar to candidates who have achieved a minimum cumulative grade point average of 3.40 prior to the semester in which commencement ceremonies are held. The commencement program will list candidates who have been authorized to receive the honors. Final grades will determine the honors appearing on the student's transcript and diploma.

PHI THETA KAPPA, ALPHA OMICRON GAMMA

Phi Theta Kappa is an international honor society for students enrolled in two-year colleges. Since 1918, it has recognized academic excellence by inducting more than 1.2 million members at over 1,200 colleges in the United States, Canada, Japan, U.S. territorial possessions, and military installations abroad.

Membership in Phi Theta Kappa is based primarily upon academic achievement. Invitation to membership is extended to students who have completed 12 credit hours, 100-level or above, or more with a minimum cumulative grade point average of 3.5.

In 1989, Kirtland Community College began its Phi Theta Kappa chapter, Alpha Omicron Gamma. Immediately, the chapter won many regional and national awards and became known as one of the finest in the nation. In 1995, the chapter became inactive. In the fall of 1998, Alpha Omicron Gamma was reactivated and currently has a membership of 80 students. Each year, Alpha Omicron Gamma engages in projects and services related to scholarship (study topics) and community service. In 2007-08, the study topic is "Gold, Gods and Glory: The Global Dynamics of Power", and the service project theme is "Operation Green: Improving our Communities." The themes for the study topic and service project are provided by the International Phi Theta Kappa Headquarters.

For more information about membership in Kirtland Community College's local chapter, Alpha Omicron Gamma, contact Kathy Koch by calling 989-275-5000, extension 253, or e-mail: kochk@kirtland.edu. Additional information about Phi Theta Kappa can also be obtained at the following web site address: www.ptk.org

GETTING INVOLVED

STUDENT ACTIVITIES

The college encourages student activities that supplement the instructional program by providing recreational activities that will add to the student's enjoyment of life and stimulate personal growth and social development. Opportunities for development of constructive leadership, cooperative planning, and special interests will be fostered through participation in student activities.

Cultural events include lectures, films, art exhibits, and concerts made available by the college. Students interested in art, drama, and journalism may further their experiences, training and talents in art shows, theatre productions, and newspaper production. Recreational and social events might include picnics, intramural sports, travel excursions, and dances. Some clubs also sponsor activities.

STUDENT I.D. CARD

Each Kirtland student is entitled to a student identification card. The career and employment services office in the administration center will issue cards upon request to all students who register for classes. The identification cards are nontransferable and are valid for one semester. The card permits the student's entry to many college- or student-senate-sponsored functions at no charge or at a reduced rate. The card is also used for checkout privileges for borrowing recreational equipment from the game room (see "Game Room"). In addition, some area businesses offer student discounts to cardholders.

STUDENT SENATE

The student senate is the student government organization at Kirtland. The senate is the means through which students can participate in institutional governance by representation on college standing committees. Also, senate members assist in planning a variety of extracurricular and co-curricular activities held throughout the year.

The officers and senators who comprise the student senate are elected each year by the student body. Senate meetings are held regularly during the year and are announced on the monitors located around the campus. These meetings are open to all who are interested. For a copy of the senate's constitution, for a petition for nomination, or for other information, contact the student senate office or student services.

STUDENT CLUBS AND ORGANIZATIONS

There are many special interest clubs and organizations that offer opportunities for students to broaden the scope of their educational experiences. Students are encouraged to participate in the activities sponsored by the clubs and organizations listed or to contact any member of the student senate, or faculty members, with suggestions for forming new organizations. Membership in all organizations is open to any interested student.

Establishment of Student Clubs and Organizations

No student club or organization may be established, conduct business, solicit funds, or sponsor activities unless the organization has been approved by the student senate and has been authorized by the college. Students who wish to form a student organization should contact the student senate at 989-275-5000, extension 288.

GAME ROOM

Pool and ping pong tables, foosball and air hockey machines are located in the game room in the student center. Equipment for volleyball, soccer, basketball, tennis, etc., is also available for checkout. Student identification cards are required for equipment checkout (see "Student I.D. Card").

KIRTLAND CENTER FOR THE PERFORMING ARTS

Kirtland Center for the Performing Arts exists as the cultural and entertainment establishment at Kirtland Community College. Its purpose is to present a variety of performing arts events catering to the diversity of interests among the members of the Kirtland Community College service district and beyond. Kirtland Center for the Performing Arts presents an annual performing arts series that brings world-class entertainment to the campus of Kirtland Community College.

Kirtland Youth Theatre presents an annual youth theater series that introduces the students of the area to the live performing arts.

Kirtland Theatre Arts Department is the academic organization that offers classes in performance and technical theatre. It also produces plays using Kirtland Community College students and area citizens.

Kirtland Center for the Performing Arts, Kirtland Youth Theatre, and Kirtland Theatre Arts Department are all located in the Performing Arts Center on campus, and rely on the talents and abilities of many volunteers in all areas. Volunteers are always welcome.

For more information on scheduled events, tickets, classes, and/or becoming a Kirtland Center volunteer, please call 989-275-5000, extension 311.

SERVICE LEARNING

Service learning combines relevant community service experiences with academic courses. Service learning activities are academically meaningful. Kirtland Community College offers four courses as part of its commitment to service learning: Volunteerism in the Community (CAR-11500), Learning Styles (CAR-11600), Service Learning Lab (CAR-12600), and Service Learning Project (CAR-20000). Service learning projects are also offered as part of some classes at Kirtland. Seminars and classes relevant to service learning issues will also be offered through the Community Education Center. Additional service learning opportunities are tracked and made available by contacting the service learning coordinator at 989-275-5000, extension 412.

A Service Learning Library has been established as part of the main collection in the library. A bibliography of material available in this collection is available.

SAFETY, SECURITY, AND EMERGENCIES

DEPARTMENT OF PUBLIC SAFETY

The personal safety and security of those on campus are the primary concerns of the department of public safety. The goal is to ensure a safe environment in which all of the campus community members can work and learn. In order to attain this goal, cooperation is needed. Members of the campus community must take responsibility for the safety and security of themselves, their neighbors, and their belongings.

PUBLIC SAFETY SERVICES

The department of public safety is located in room 127 in the administration center. Office hours are 8 a.m. to 11 p.m., Monday through Friday. Public Safety services include:

- After-dark escort service from the buildings to students' vehicles
- Response to criminal behavior complaints
- Preventative workshops/seminars on drug/alcohol awareness, rape awareness, use of weapons, etc.
- The addressing of parking and traffic violations
- Provision of vehicle emergency assistance (keys locked inside of vehicle, jump-starting vehicle, etc.)

CRIME REPORTING

If anyone witnesses a crime or is a victim of any criminal activity, he or she should take immediate action by contacting the public safety office at extension 355, 390, 283, or 0, or by contacting the Roscommon County Sheriff's Department at 911.

NOTE: Upon request, data can be obtained from the department of public safety or the student services office regarding incidents reported, during 2005/06.

PARKING AND TRAFFIC ON CAMPUS

Through enforcement of parking and traffic policies, it is Kirtland's desire to provide a safe means for entry and departure from campus lots. It is also hoped that fire, safety, and maintenance vehicle access lanes, handicap spaces, and loading/unloading opportunities can be provided with the least amount of inconvenience.

Parking on campus is free and allowed in approved areas only. Parking is not allowed in fire lanes, on or beside walking paths, on grass, or next to buildings. In addition, parking in the lot adjacent to the career technology center is reserved for patrons of automotive and cosmetology services. Students should park in designated areas only. A Vehicle Identification sticker is required. Students should call 989-275-5000, extension 348, for more information.

Parking spaces for service vehicles and the handicapped are posted. A permanent or temporary handicapped sticker from the Secretary of State's office is needed to park in the handicapped areas.

Parking and traffic violators on campus will be ticketed by Kirtland's public safety officers. The following fines are imposed on violators:

\$40.00	Parked in handicap space	\$25.00	Parked within 15 feet of fire hydrant	\$25.00	Blocking emergency exit
\$25.00	Parking in fire lane	\$10.00	All other parking violations		

FIRE SAFETY AND FIRE ALARMS

Students and employees of the college are encouraged to know where fire alarms, fire extinguishers, and emergency exits are located in each building.

If a fire alarm sounds, get **out of the building!** Treat all fire alarms as real, even if there is reason to believe the alarm is a false alarm. Do not reenter the building until given permission to do so by college officials.

NOTE: A false alarm is dangerous and a felony. Anyone sounding a false alarm will receive the minimum sanction of suspension from college.

POLICY ON USE OF ALCOHOL/DRUGS

Unauthorized possession or use of alcoholic beverages on the college campus or at a college-sponsored event, and use, possession, or distribution of narcotic or other dangerous drugs (including look-alike drugs) are strictly prohibited. Violation of these regulations could lead to removal from college property, suspension, or dismissal from the college, and/or liability for legal prosecution.

NOTE: For a more detailed position on the possession/use of illicit drugs and alcohol, please refer to "Rights and Responsibilities of Students" and "Student Code of Conduct" sections in this catalog.

POLICY ON WEAPONS (FIREARMS, KNIVES, EXPLOSIVES)

Possession or use of knives (blade in excess of 3-1/8 inches), firearms, firecrackers, explosives, other lethal weapons, and/or toxic or dangerous chemicals on campus or at any college-sponsored events, unless specifically authorized in writing by a college administrator for educational/safety purposes, is prohibited. However, possession in a locked vehicle may be permitted according to state laws. Law enforcement officers are exempt from this policy.

CAMPUS SAFETY AND SECURITY

The campus is nestled in a beautifully wooded setting. The surroundings are tranquil and peaceful. Yet, although Kirtland is a relatively safe place to be, it is certainly not exempt from many of the same crime problems that exist in the surrounding communities. Kirtland has implemented measures to promote safety awareness and strives to ensure that the campus is a safe environment for the campus community. The department of public safety in room 127 in the administration center can provide more information about the ways Kirtland works toward this goal.

CAMPUS CRIME OCCURRENCE STATISTICS

The Crime Awareness and Campus Security Act of 1990 requires colleges to collect and share occurrence statistics for certain crimes reported as occurring on the college campus. Kirtland's on-campus occurrence statistics (reported offenses; does not infer alleged offenders were convicted) are listed below:

Reported Offenses	2004	2005	2006	Arrests	2004	2005	2006
Murder	0	0	0	Liquor Law Violations	5	26	2
Sex Offenses-Forcible	0	0	0	Drug Abuse Violations	0	1	0
Sex Offenses-Non-forcible	0	0	0	Weapons Possessions	0	0	0
Robbery	0	0	0				
Aggravated Assault	0	2	0				
Burglary	0	0	0				
Motor Vehicle Theft	0	0	0				

NOTE: For more information regarding the college's compliance with the Crime Awareness and Campus Security Act of 1990, contact the director of criminal justice.

EMERGENCIES

Sometimes emergencies arise on campus that require the services of the fire department, county sheriff's office, Michigan State Police, or an ambulance. The services can be reached by calling extension 355 or 390. The public safety department can assist with these situations and refer them to the proper authorities. Battery jumps and assistance in unlocking car doors are performed by the public safety office and campus security.

ACCIDENT REPORTING

Students having an accident or needing medical assistance while on campus should call public safety office at ext 355.

CLASS CANCELLATIONS AND COLLEGE CLOSINGS

INDIVIDUAL CLASS CANCELLATION

When an instructor cancels a class it is immediately posted on the website in the Urgent Announcements section. You can view this at www.kirtland.edu and click on "Urgent Announcements + Class Cancellations". Cancellations are also posted in designated areas in the campus buildings, and you can call a local telephone number listed for your area to find out.

KIRTLAND CLASS CLOSING MESSAGES XXX-2498

(For example: in Houghton Lake you would call 910-2498)

Selected Area prefixes:

City	Prefix	City	Prefix	City	Prefix
Roscommon	563	Houghton Lake	910	Merritt	219
Grayling	688	Gaylord	688	Lewiston	243
Atlanta	243	Hillman	419	Alpena	419
Oscoda	764	East Tawas	764	Hale	223
Fairview	333	Mio	333	West Branch	516
Rose City	507	Lupton	782	Alger	825
Prescott	676	Bay City	509	Saginaw	393

Local numbers for all areas are available at: <http://www.m33access.com> under Access Numbers on the left menu. Enter your code and prefix or city and the system will provide local numbers for your use.

When classes are cancelled due to inclement weather or other unusual circumstances, the procedure below is followed.

MAIN CAMPUS CLASSES: When it is necessary to cancel classes due to inclement weather or other unusual circumstance, please DO NOT CALL THE COLLEGE. Announcements of college closings will be made on the radio and TV stations listed below. Visit the Kirtland website for urgent announcements such as class or event cancellations, room changes, or anything that is different than expected at: www.kirtland.edu.

EVENING CLASSES: Announcements that refer to evening classes mean any class beginning at 5 p.m. or later.

SATURDAY CLASSES: Cancellations will not be announced on radio or TV. The decision to cancel a Saturday class will be communicated through a student telephone fan-out list that will be established in each class.

OFF-CAMPUS CLASSES: If the radio/TV announcement states that Kirtland classes are cancelled, that announcement includes Kirtland off-campus classes (Houghton Lake, Roscommon, Grayling, Mio, West Branch, Gaylord).

M-TECSM AT KIRTLAND-GAYLORD CLASSES: Students should call the M-TEC weather line at 989-705-3696. A pre-recorded message will indicate whether or not classes are being held.

LOCAL SCHOOL CLOSINGS: If local schools which are sites of off-campus classes are closed due to inclement weather, Kirtland classes will also be cancelled at that site.

NURSING CLINICAL:

- Students having classes on campus should listen to the radio for campus closing announcements.
- Students scheduled for clinical sites will not hear announcements regarding clinical site closings on the radio. The instructor of the clinical site will decide the cancellation of a class and students will receive word by means of a predetermined clinical phone tree. (For more information, refer to the nursing student handbook.)

TV: Cadillac WWTV - TV 9 & 10
 Cadillac FOX 33
 Bay City WNEM - TV 5
 Traverse City WPBN - TV 7 & 4
 Traverse City WGTU - TV-29

RADIO:
 Houghton Lake WHGR-WUPS 98.5 FM
 Grayling..... WGRY 101 FM
 Grayling..... WQON Kool 100 FM
 Gaylord..... WKPK.....107 FM
 Gaylord..... WPHN.....90.5 FM
 Gaylord..... WMJZ Magic 101.5 FM
 Tawas City..... WIOS-WKJC 104.7 FM
 Tawas City..... NEW BAY 108 107.3 FM
 Traverse City WTCM 103.5 FM
 Alpena WHSB.....107.7 FM
 Mt. Pleasant..... WCMU (NPR) 89.5 FM
 Alpena WCML (NPR) 91.7 FM
 Petoskey..... WKHQ 96 FM
 West Branch..... WBMI.....Kool 105.5

COLLEGE CLOSINGS

In the event of impending severe weather, prolonged utility failure, or any condition jeopardizing the safety or well-being of students, the college President may find it necessary to suspend classes or cease college operations until such threatening conditions are corrected. After such a decision has been made, radio stations within the college's district and service area will broadcast several announcements about the closing decision. For information, see the previous section entitled "Class Cancellations."

PROTECTING STUDENT RIGHTS

STUDENT'S RIGHT TO KNOW

Upon request, the college is required to disclose the following information to both prospective and enrolled students:

Rights Under Family Education Rights and Privacy Act (FERPA)

- *Right to and procedures for inspecting and reviewing student's education records.* Some records are available in the Student Services office for the student to review any time during office hours. Students should contact the registrar and identify the record(s) they wish to inspect. If the records are not maintained by the registrar, he/she will advise the student of the correct official to whom the request should be addressed. This official will make arrangements for access and notify the student of the time and place where the records may be inspected.
- *Right to and procedures for requesting amendment of students' education records that student/parent believes to be inaccurate, misleading, or in violation of student privacy rights.* Students should write to the registrar and clearly identify the part of the record they want changed and specify why it is inaccurate or misleading. If Kirtland 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.
- *Right to the criteria used to determine what constitutes a school official and a legitimate educational interest if school's or educational agency's policy is to disclose personally identifiable information from student's education records without prior consent.*
- *Right to consent to disclosure of personally identifiable information contained in student's education record, except to the extent that FERPA authorizes disclosure without consent.* Kirtland Community College will disclose information from a student's education record only with the written consent of the student except:
 1. To school officials with legitimate educational interests. 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. A school official is: A person employed by Kirtland Community College, a member of the Board of Trustees who is empowered by the board, a person employed by or under contract with the college to perform a special task, such as the attorney or auditor or a student serving in an official capacity.

2. To Federal, State, and local authorities involving an audit or evaluation of compliance with educational programs.
 3. In connection with Financial Aid.
 4. To State and local authorities pursuant to a State law adopted before November, 1974 requiring the disclosure.
 5. To organizations conducting studies for or on behalf of educational institutions.
 6. To accrediting organizations.
 7. To comply with a judicial order or a lawfully issued subpoena.
 8. In a health or safety emergency.
 9. For directory information so designated by Kirtland Community College. (see below).
 10. As a result of any disciplinary proceeding conducted by Kirtland Community College to an alleged victim of a crime of violence
- *Right to file a complaint with U.S. Department of Education for alleged school or educational agency failure to comply with FERPA requirements*

Directory Information Disclosure

- Kirtland Community College designates the following items as Directory Information: Student Name, whether a student is or has been registered, Degrees and Awards Received. This enables Kirtland to use the student's name for various publications, electronic bulletin boards, newspaper articles regarding academic achievements, graduation programs, or phone inquiries. Kirtland may disclose any of these items without prior written consent, unless notified in writing to the contrary.
- The student must notify the Records office by the end of the first week of each semester if he/she does not wish to have any information disclosed. This notification must be in writing; forms are available in the Records office.

FFEL/Direct Loan Deferments for Peace Corps or Volunteer Service

- Terms and conditions of deferments for service in the Peace Corps, service under the Domestic Volunteer Service Act of 1973, or comparable volunteer service for a tax-exempt organization of demonstrated effectiveness in the field of community service

Available Financial Assistance

- Description of all available federal, state, local, private, and institutional financial need-based and non-need-based assistance programs and, for each program, a description of application form and procedures, student eligibility requirements, selection criteria, and criteria for determining the amount of a student's award
- Rights and responsibilities of students receiving Title IV and other financial aid

Institutional Information

- Cost of attending the school
- Any applicable refund policy
- Requirements for officially withdrawing from the school
- Summary of requirements for the return of Title IV grant or loan assistance by withdrawn students
- Information regarding school's academic programs
- Entities that accredit, license, or approve the school and its programs, and procedures for reviewing school's accreditation, licensing, or approval documentation
- Description of any special services and facilities for disabled students
- Title and availability of employee(s) responsible for dissemination of institutional and financial assistance disclosure information and how to contact designated employees
- Statement that enrollment in a study abroad program approved for credit may be considered enrollment at the school for the purpose of applying for Title IV assistance

Completion/Graduation Rates

- Completion or graduation rate of cohort of certificate or degree-seeking, full-time undergraduates who graduated or completed their program within 150% of the standard time for graduation or completion.

Campus Security Report

- Statistics for three most recent calendar years concerning the occurrence on campus, in or on non-campus buildings or property, and public property of certain offenses reported to campus security authority or local police.

Athletic Program Participation Rates and Financial Support Data

- Number of male and female full-time undergraduates
- Varsity teams that compete in intercollegiate athletic competitions
- Unduplicated number of students, by gender, who participated on at least one varsity team as of the date of the first scheduled contest
- Institutional revenues
- Total spent on athletically related student aid awarded to men and to women
- Aggregate total recruiting expenses for men's teams and for women's teams
- Average annual institutional salary of non-volunteer coaches of all men's teams and of all women's teams on a per person and per full-time basis
- Average annual institutional salary of non-volunteer assistant coaches of all men's teams and of women's teams on a per person and a per full-time basis

NOTE: While much of this information can be found in the class schedule and in the college catalog, a full report of disclosure information may be obtained at the following web site: www.kirtland.edu. (Kirtland Community College will also provide, upon request, a paper copy of the disclosure information.)

NONDISCRIMINATION

Kirtland Community College complies with all general laws and regulations prohibiting discrimination and with all requirements and regulations of the U.S. Department of Education. It is the policy of Kirtland Community College that no person shall, on the basis of race, color, religion, sex, disability, marital status, age, height, weight, national origin or ancestry, Vietnam-era veteran status, or other protected category under Michigan and federal law, be discriminated against, excluded from participation in, or denied the benefits of any program or activity for which it is responsible or for which it receives financial assistance from the U.S. Department of Education.

All educational, employment, and business opportunities, as well as community services are offered without regard to individual circumstance, except as otherwise restricted by law. The college Title IX and Section 504 coordinator is Dale Shantz, Kirtland Community College, 10775 N. St. Helen Road, Roscommon, Michigan 48653, 989-275-5000, extension 271. Doty Latuszek is the Section 504 coordinator for M-TECSM at Kirtland-Gaylord.

Compliance with the Americans with Disabilities Act (ADA) is a priority of Kirtland Community College. An individual seeking accommodation or redress under the provisions of the act should contact Dale Shantz, Kirtland Community College, 10775 N. St. Helen Road, Roscommon, Michigan 48653, 989-275-5000, extension 271, or the college business office at extension 239. For the M-TECSM at Kirtland-Gaylord campus, Doty Latuszek may be contacted at 989-705-3600.

HARASSMENT

It is the policy of Kirtland Community College, consistent with its efforts to foster an environment of respect for the dignity and worth of all members of the college community, that harassment, in any form, of students, employees, or other individuals at Kirtland Community College is unacceptable and impermissible conduct which will not be tolerated. Harassment is any statement or conduct which constitutes an illegal quid pro quo (an unwelcome demand for an exchange of favors), or otherwise creates or fosters an intimidating, hostile, or offensive campus environment. Anyone facing an immediate physical threat should contact the department of public safety at extension 283 (emergency extension, 355). For more information, or to file a harassment complaint, please contact the business office, located in rooms 226 - 228 of the administration center, or call 989-275-5000, extensions 239 or 271.

Kirtland's policies on nondiscrimination and harassment are consistent with federal and state statutes that prohibit discrimination against employees and require fair and equal treatment of students, including Titles VII and IX of Civil Rights Act of 1964 and the Michigan Elliot-Larsen Civil Rights Act, 1976, which prohibit discrimination because of race, color, religion, sex, disability, marital status, age, height, weight, national original or ancestry, Vietnam-era veteran status, or other protected category under Michigan and federal law.

SMOKE-FREE LEARNING ENVIRONMENT

In compliance with state and federal law, Kirtland Community College has reduced exposure to tobacco products by taking the following steps:

1. Smoking or use of any tobacco products will be prohibited in all leased or owned college facilities.
2. Smoking or use of any tobacco products will be prohibited in vehicles owned, leased, or operated by the college.
3. Smoking or use of any tobacco products may occur no closer than 10 feet from outer door entrances. In some circumstances, other standards will apply and will be posted.
4. The sale of tobacco products will be prohibited on college premises.

The responsibility for implementing this policy lies with each individual in the Kirtland Community College community.

Successful implementation requires the understanding, consideration, and cooperation of students, staff, and visitors to the campus.

DRUG-FREE LEARNING ENVIRONMENT

Kirtland Community College recognizes that the use of illicit substances is wrong and harmful to the physical, social, and emotional well-being of its students and directly affects their ability to learn, function, and be successful in school. Therefore, the college has adopted and implemented policies which promote drug prevention and education, and which prohibit the unlawful possession, use, distribution, or being under the influence of illicit substances by all students on school premises or as part of any school business, activity, or function. Specific information on standards of conduct, disciplinary sanctions, and other aspects of this policy are available in other sections of this catalog (please refer to the "Student Code of Conduct"), other appropriate publications, and from the counseling office. For more detailed information about drug and alcohol counseling, rehabilitation, and/or re-entry programs, please contact the counseling office.

PRIVACY OF STUDENT RECORDS

The college complies fully with the Family Educational Rights and Privacy Act of 1974, also known as FERPA, which is designed to protect the privacy of student educational records. For more information regarding the confidentiality of records or release of student information contact the records office located in the student services office in the administration building, or call 989-275-5000, extension 291. For details of the rights, please refer to "Student's Right to Know" (page 32).

SOCIAL SECURITY NUMBER

The college requests the student's Social Security number at time of admission to verify identification. The Social Security numbers of students accepted for admission prior to April 1996 are their student identification numbers (I.D.). Due to new software used for record keeping, a separate I.D. number is issued to new students admitted after April 1996. The student I.D. is used for grade reporting, class list identification, transcript services, and additional services, such as financial aid and VA benefits for those who are eligible.

As a part of the college's instructional program improvement efforts, and to meet the requirements of the Carl D. Perkins Vocational and Technical Education Act, Section 113, and the Workforce Investment Act (WIA) of 1998, Section 122, student Social Security numbers will be used to compile certain data for the purpose of instructional program improvement and Perkins and WIA reporting.

RIGHTS AND RESPONSIBILITIES OF STUDENTS

Kirtland Community College recognizes those enrolled in a course or program of study as being students and, therefore, members of the academic community. As members of this community, they are subject to the obligations which accrue to them by virtue of this membership. While enjoying freedoms of speech, peaceful assembly, right of petition, and the right of due process, all students are expected to conduct themselves in a manner that will reflect favorably on them, the community and Kirtland Community College.

Academic Freedom

The student in the classroom and in conference should enjoy free discussion, inquiry and expression. Student performance shall be evaluated on an academic basis, as defined in the syllabus for each course.

A. Protection of Freedom of Expression:

Students shall be free, and be encouraged to offer opinions and insights in any course of study and be allowed to reserve judgment about matters of opinion expressed by the instructor or other students. Also, students are responsible for learning the content of any course of study for which they are enrolled.

B. Protection Against Improper Academic Evaluation:

Students shall have protection through due process against prejudiced or capricious academic evaluation. At the same time, they are responsible for maintaining standards of academic performance established for each course in which they are enrolled. Students may use the procedures outlined under "Procedure for Academic Due Process" when a dispute over grades occurs.

Freedom of Assembly

No person or persons shall assemble in a manner which obstructs the free movements of persons about the college or the free normal use of the college buildings and facilities, or prevent or obstruct the normal operations of the college.

Right to Due Process

An individual charged with a violation of the student code of conduct has the right to due process. A student who is dissatisfied with an academic decision also has the right to due process. Due process at Kirtland Community College means that a student is assured that his/her rights as a student will be protected. Further, and specifically, a student has the right:

- A. To be informed in writing of the specific charges and the grounds for such charges.
- B. To have a chosen advisor or counselor or lawyer (at the student's own expense) present for advice before, during and/or after the hearing. The role of this individual is limited to an advisory capacity with no right of cross-examination.
- C. To be present at the hearing, if desired.
- D. To exercise the privilege against self-incrimination.
- E. To hear or examine evidence presented to the committee reviewing the case and to present evidence by witnesses or affidavit of any defense the student desires. Further, the student shall be given the opportunity to cross-examine witnesses.
- F. To be informed in writing of the Committee's recommendation to the appropriate dean.
- G. To appeal the Committee's decision to the President.
- H. To waive the right of a formal hearing before the Committee and to have the case heard by the appropriate dean.

Laws, Regulations and College Policy

Students shall obey the laws enacted by federal, state and local governments, as well as the policies and regulations of Kirtland Community College. If a student is charged with a misdemeanor or felony, the college will fully cooperate with civil authorities while recognizing the student's rights under the Family Educational Rights to Privacy Act ("FERPA").

Note: Under FERPA, an educational institution, including a community college, may not disclose personally identifiable information found in a student's education record to law enforcement officials, unless such disclosure is "to comply with a judicial order or lawfully issued subpoena." In such a situation, the college must make a reasonable effort to notify the parent or student of the order or subpoena in advance of compliance.

Student Code of Conduct

College student conduct expectations are essential to the establishment of an environment conducive to learning, to the protection of Kirtland Community College's educational purpose and to the maintenance of a reasonable level of order on the campus. The college strives to maintain these standards through educational programs, services to the students and the promotion of student conduct standards.

Enrollment as a student at Kirtland Community College carries with it behavioral obligations inside and outside the classroom. Students are responsible for obeying municipal, state and federal laws which govern the community, as well as for the rules and regulations of the college. If a student participates individually or as a member of a group in any of the "Forms of Misconduct" (listed below), he or she can be subject to disciplinary action. Further, sanctions may be imposed upon student groups or organizations, including the sanction of deactivation which entails the loss of all the privileges and/or college recognition for a specified period of time.

Generally, college jurisdiction and discipline shall be limited to conduct which occurs on college premises or which adversely affects the college community and/or the pursuit of its objectives. The student code of conduct is in effect for students while they are on any campus property, as well as other property in the possession of or owned, used or controlled by the college. The code of conduct also applies to off-campus activities, such as field trips, off-campus classes and college-sponsored events. On a case-by-case basis, the dean of student services or the appropriate instructional dean will determine whether jurisdiction should be asserted to address the adverse effects of an off-campus activity.

A. Disciplinary Actions

Violations of the student code of conduct are subject to disciplinary action and will be given immediate attention by the college. The appropriate dean may impose any of the following disciplinary actions:

1. **Warning:** A "WARNING" is an official reprimand which expresses college dissatisfaction with the student's conduct and which clarifies expected behavior in the future. Such action is in effect for the duration of the semester in which the warning was issued. Normally, a warning does not include any restrictions. If the same offense is repeated after a warning is given, probation will be the minimum sanction awarded.

2. **Probation:** "PROBATION" status indicates that any violation of the code of conduct within the probationary period shall result in more severe disciplinary action against the student that could include suspension or dismissal from the institution. Usually, the probationary period extends for a specified period of time or until completion of a specific requirement.

Probation in itself does not carry with it any restrictions; but, in addition to probation, it is possible for a student to be expected to complete a work assignment, pay a fine or be prohibited from holding an office or representing the college in any activity.

3. **Removal from a Course:** If "REMOVAL FROM A COURSE" occurs, a student may continue to attend other classes, but may not resume attendance in the course from which he or she has been removed for the remainder of the semester in which the removal occurs. In the event a student is removed from a course, he or she will be given either a withdrawal or a failure in accordance with the college's "Withdrawal From Classes" policy.

4. **Suspension:** "SUSPENSION" is an action that separates the student from the institution for a definite period of time (days, weeks, semesters, etc.) and is to be appropriate with the circumstances of the violation. Such action will specify the conditions required for readmission, as well as the date the student will be eligible to return.

5. **Expulsion:** "EXPULSION" is an action that permanently separates the student from the institution.

6. **Specific Orders:** "SPECIFIC ORDERS" is an action which may stand alone or be issued with another sanction. Specific orders may include, but are not limited to, performance or non-performance of specific acts, loss of certain privileges, payment of fines, restitution and work assignments.

Any disciplinary action imposed on a student will be recorded in the student's confidential file in the student services office. A disciplinary action can not be recorded on a student's transcript.

B. **Forms of Non-Academic Misconduct:** The following forms of misconduct will not be tolerated by the college. Minimum sanctions, disciplinary actions, normally taken by the college are indicated in parenthesis following each violation.

Note: This list is not inclusive of all possible forms of misconduct. The college's administration may add to this list if needed. College disciplinary proceedings may be instituted against a student charged with violation of a law which is also a violation of the student code of conduct, i.e., if both violations result from the same factual situation, without regard to the pendency of civil litigation in court or criminal arrest and prosecution. Such proceedings under this student code of conduct may be carried out prior to, simultaneously with or following civil or criminal proceedings off-campus.

1. Arrest for or conviction of any civil or criminal laws committed while on campus or at college sponsored events. **(Probation)**
2. Threatening, attempting, or using physical force or intimidation (including stalking) against any person on the college properties or at any off-campus college sponsored events. This includes the interference with the freedom of movement of any person. **(Suspension)**
3. Deliberate interference with academic freedom or freedom of speech, including disruption of a class, or interference with the freedom of any speaker invited by the college to express his/her views. **(Warning)**
4. Discrimination on the basis of race, color, religion, national origin or ancestry, age, sex, marital status or handicap. **(Probation)**
5. Sexual harassment in the educational environment, as defined by the Elliott-Larsen Civil Rights Act. **(Suspension)**

Note: The Elliott-Larsen Civil Rights Act defines sexual harassment in the educational environment as "unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communications of a sexual nature when...such conduct or communication has the purpose or effect of substantially interfering with an individual's education...or creating an intimidating, hostile or offensive...educational...environment."

6. Conduct or expression which is disorderly, lewd, indecent or obscene on college property or at a college sponsored event. **(Warning)**

Note: To determine conduct or expression which is disorderly, lewd, indecent or obscene, the U.S. Supreme Court has set forth the following three-prong test to determine obscenity:

The basic guidelines for the trier of fact must be: (a) whether the average person applying contemporary community standards would find that the work/action, taken as a whole, appeals to the prurient interest; (b) whether the work/action depicts or describes, in a patently offensive way, sexual conduct specifically defined by the applicable state law; and (c) whether the work/action, taken as a whole, lacks serious literary, artistic, political, or scientific value.

7. Engaging in any kind of hazing action on or off campus that endangers the mental health, physical health or safety of a student or which destroys or removes public or private property for purpose of initiation or admission into, affiliation with, or participation in any student organization. **(Suspension)**
8. Failure to comply with reasonable requests and orders by authorized college officials or representatives acting in behalf of the college. (This requirement includes reasonable requests for students to meet appointments in administrative or faculty offices and at investigative/disciplinary hearings.) **(Warning)**
9. Initiate false alarms which endanger the health and safety of any person on college properties or at any off-campus college sponsored events. **(Suspension)**
10. Possession or use of knives (blade in excess of 3 1/8"), firearms, firecrackers, explosives, other lethal weapons, and/or toxic or dangerous chemicals on campus or at any college sponsored events, except when specifically authorized in writing by a college administrator for educational/safety purposes. Further, possession in a locked vehicle may be permitted according to State laws. Law enforcement officers are exempt from this policy. **(Suspension)**
11. Unauthorized distribution or sale of items on campus. (To be eligible for authorization, students must follow the steps outlined in Board policy/procedures 3.015, Community Use of College Facilities.) **(Warning)**
12. Manufacture, possession, control, sale, transmission or use:
 - a. Any controlled substance (illegal drugs) in violation of state or federal laws; or
 - b. Substances purported to be illegal, abusive or performance enhancing, i.e., look-alike drugs.The college has the policy of full cooperation with law enforcement agencies in such cases. **(Suspension)**
13. Possession (outside of State laws), distribution, consumption or abuse (including intoxication) of any alcoholic beverages on any college owned or rented facility, except in employee rented dwellings on campus. **(Suspension)**
14. Consumption of food or beverages in unauthorized areas on campus. **(Warning)**
15. Smoking in classrooms or other designated non-smoking areas. **(Warning)**
16. Gambling with money or anything else of value on campus or any college sponsored event. **(Probation)**
17. Dress that fails to meet established safety or health standards in specific on or off-campus classes or at college sponsored events. **(Warning)**
18. Parking of vehicles in unauthorized areas. **(Warning)**
19. Unauthorized presence of pets on campus. (Animals who assist students with disabilities are permitted on campus.) **(Warning)**
20. Misrepresentation, alteration, forging or misuse of college documents, records, or identification cards. (Students are required to present identification when requested by authorized college officials.) **(Expulsion)**
21. Unauthorized representation or contracting in the name of Kirtland Community College. (A student may not claim to be an official representative of the college for any commercial purpose.) **(Suspension)**
22. Use and/or misuse of the college computer system, facilities, hardware, software and all computerized information is prohibited in the following circumstances, including, but not to be limited to:
 - a. Unauthorized entry into a file, whether to use, read, change or for any other purpose.

- b. Unauthorized transfer of a file.
 - c. Unauthorized use of another individual's identification and password.
 - d. Use of computing facilities to interfere with the work of another student, faculty member or college official.
 - e. Use of computing facilities to send obscene or abusive messages.
 - f. Use of computing facilities to interfere with normal operation of the college's computing system.
 - g. Use of computing facilities in a manner which violates state or federal copyright laws, e.g., unauthorized duplication of copyrighted or licensed software. **(Suspension)**
23. Unauthorized entry to and/or use of college facilities and equipment. Also, the possession of keys or duplication of the college's keys without proper authorization. **(Suspension)**
24. Attempted or actual theft from, damage to or the defacing of college property or to the property of other students, faculty or staff while on the campus or at any college sponsored event. **(Expulsion)**
25. Littering of college facilities and grounds. (This includes the disposal of cigarette butts in locations other than ashtrays or trash receptacles.) **(Warning)**
26. Dishonesty, including knowingly furnishing false information to the college or a college officer, whether verbally, in writing, or completing required forms. **(Probation)**
27. Violation of college policies and regulations not already addressed in the previously listed forms of misconduct. **(Warning)**

C. Academic Misconduct

1. Kirtland Community College considers academic dishonesty to be a serious offense. It is the policy of the college that determination of and appropriate action in respect to academic dishonesty by a student shall be a matter of individual judgment by the instructor, with departmental guidelines.

Cheating, plagiarism or other forms of academic dishonesty including the unauthorized acquisition of tests or other academic materials. This includes students who aid and abet, as well as those who attempt such behavior. (An instructor may administer a penalty up to and including failure in a particular course. In some cases, such as in nursing and criminal justice programs, the student handbook outlines the appropriate action. If a student fails two classes as a result of academic dishonesty, he or she is dismissed from the college for the remainder of the semester in which the second violation occurs and the following academic semester that is required for that student's program of study, i.e. some programs require students to take classes during the summer semester, most programs do not.)

Note: Cheating includes, but is not limited to:

The use of any unauthorized assistance in taking quizzes, tests or examinations;

- a. Dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments;
- b. The acquisition, without permission, of tests or other academic material belong to a member of the college faculty or staff.

Plagiarism includes, but is not limited to, the use, whether by paraphrase or direct quotation, of the published or unpublished work of another person without full and clear acknowledgment. It also includes the use of materials prepared by another person or agency.

2. Deliberate interference with academic freedom or freedom of speech, including disruption of a class, or interference with the freedom of any speaker invited by the college to express his/her views. **(Warning)**

The deans will decide whether the conduct will be considered academic (section C) or non-academic (section B) and will follow the appropriate procedure.

Disclosure of Student Rights and Responsibilities:

Both policy and procedure for "Student Rights and Responsibilities" will be made available to all students and employees. To ensure this occurs, any college catalog, student handbook or faculty handbook printed after December 31, 1990, must include this information.

DUE PROCESS PROCEDURE

At Kirtland Community College, two procedural forms of due process exist; Academic Due Process and Non-Academic Due Process. As conditions permit, either form of due process is provided to the student within a reasonable amount of time. In certain circumstances, the dean, or his/her designee, may impose a suspension prior to the hearing before the committee.

A. Interim suspension may be imposed only:

1. To ensure the safety and well-being of members of the college community or preservation of college property;
2. To ensure the student's own physical or emotional safety and well-being;
3. If the student poses a definite threat of disruption or interference to the normal conduct of operations of the college.

B. During the period of interim suspension, the student shall be denied access to the campus (including being barred from classes) and/or all other college activities or privileges for which s/he might otherwise be eligible as the director of student services dean may determine to be appropriate.

C. The interim suspension shall continue until the student's due process procedures are complete. The hearing for this matter should follow the dean's actions as soon as practicable.

Procedure for Non-Academic Due Process:

Any member of the college community may file charges against a student for an alleged violation of the student code of conduct. These charges must be filed in writing by completing a "Student Conduct Complaint Form" and be submitted to the dean of student services as soon as possible after the incident. These forms can be obtained from the student services office. Once charges have been formally filed, the following procedure for Non-Academic Due Process must be observed:

A. The director of guidance and counseling shall meet with the person (complainant) who has filed a charge against another person or student organization. During this meeting, the director will review the charge and procedure with the complainant. The director will also meet with the individual(s) charged with the violation and attempt to resolve the situation between the two parties. If the complainant elects to withdraw the charge, a complaint withdrawal form will be completed and signed by the complainant. If the charge stands, the dean of student services will notify the student (in writing) of the charges filed against him/her and the college's policy regarding due process.

B. The dean of student services will appoint a student judiciary committee composed of three full-time college employees and two students. The dean will appoint one of the employees to chair the hearing. The members of this committee must have no vested interest in the matter. The dean of student services cannot serve on this committee.

C. The person filing the complaint and the person or student organization charged with violating the student code of conduct are responsible for providing statements from witnesses and other evidence. Witness statements can be provided verbally during the hearing or in written (signed and dated) form. Both parties may have other individuals at the hearing. These individuals are limited to an advisory capacity with no right of cross-examination.

D. The student judiciary committee has the responsibility of hearing the charges against the student and reviewing the evidence. The hearing will take place within ten working days following the student's receipt of the written charges. A verbatim record, such as a tape recording, will be made of all hearings. This record remains the property of the college and must be maintained for a period of two years. Within one working day following the hearing, the committee will submit (in writing) its recommendation to the dean of student services.

E. The dean of student services will render a decision on the case, which may include sanctions imposed on the student. The dean will then inform (in writing) all parties involved of his/her decision within three working days of the receipt of the student judiciary committee's recommendation.

F. If the student wishes to contest the dean of student services' decision, s/he may appeal to the President within three working days following notification of the dean's decision (refer to "Appeal Process"). The President's decision will be final.

Note: A student who commits a drug or alcohol related infraction (Forms of Misconduct #13 or #14), will be immediately referred to the dean of student services. The dean may provide the student with a choice of the following options:

Option #1: Referral to the Kirtland's student assistance program and/or to a substance professional for a substance abuse intake interview and assessment. The dean will also give a formal "warning" to the student.

Option #2: Referral to the student judiciary committee for a hearing. If found in violation by the committee, the student may be suspended for the remaining portion of the current semester with no refund of tuition and fees. Further, if suspended, the student must show evidence of an intake interview and assessment with a substance abuse professional in order to return to Kirtland.

Procedure for Academic Due Process:

- A. If an instructor fails a student in a course for academic dishonesty, the instructor must immediately notify, in writing (Academic Student Conduct Complaint Form), the student and the dean of instruction. The dean of instruction shall maintain a record of all such notifications.
- B. If a student wishes to appeal a grade or academic decision, s/he must first meet with the faculty member to discuss his/her grievance.
- C. If the student and faculty member do not come to a satisfactory agreement, or if charged with academic misconduct, the student may appeal to the appropriate associate dean. If the problem is not resolved at this level, the student may appeal to the dean of instruction.
- D. If the student chooses to appeal to the dean of instruction, a written request (which includes a brief summary of the grievance) must be submitted. The dean will review the appeal. Within three working days after receiving the appeal, the dean shall render a decision.
- E. Should the student wish to pursue the matter further, the dean will refer the complaint to the academic appeals committee. The instructional dean will appoint an academic appeals committee composed of three full-time faculty members and two students. The dean will appoint one of the faculty members to chair the hearing. The members of this committee must have no vested interest in the matter. The dean cannot serve on this committee.
- F. The academic appeals committee has the responsibility of hearing the grievance and reviewing the evidence. The hearing will take place within ten working days following the student's request for a hearing. A verbatim record, such as a tape recording, will be made of all hearings. This record remains the property of the college and must be maintained for a period of two years. Within one working day following the hearing, the committee will submit (in writing) its recommendation to the dean.
- G. The dean will render a decision on the case. The dean will then inform (in writing) all parties involved of his/her decision within three working days of the receipt to the academic appeals committee's recommendation.
- H. If the student wishes to contest the dean's decision, he/she may appeal to the President within three working days following notification of the dean's decision (refer to "Appeal Process"). The President's decision will be final.

Appeal Process(es):

An appeal shall be limited to review of the verbatim record of the initial hearing and supporting documents for one or more of the following purposes, except as required to explain the basis of new evidence:

- A. To determine whether the original hearing was conducted fairly in light of the charges and evidence presented, and in conformity with prescribed procedures giving the complaining party a reasonable opportunity to prepare and present evidence that the student code of conduct was violated and giving the accused student a reasonable opportunity to prepare and to present his or her rebuttal of those allegations.
- B. To determine whether the decision reached regarding the accused student was based on substantial evidence, i.e., were the facts in the case sufficient to establish whether there was, or was not, a violation of the student code of conduct?
- C. To determine whether the sanction(s) imposed was appropriate to the violation of the student code of conduct which the student was found to have committed.
- D. To consider new evidence, sufficient to alter a decision, or other relevant facts not brought out in the original hearing because such evidence and/or facts were not known to the person appealing at the time of the original hearing.

SUBSTANCE ABUSE INFORMATION ON ALCOHOL AND DRUGS

Information regarding the misuse and abuse of alcohol and drugs can be found in the student center near the entrance or by contacting the director of guidance and counseling in the student services office.

STATEMENT/GUIDELINES REGARDING AIDS

In response to the epidemic of infection with Human Immunodeficiency Virus (HIV), which causes the Acquired Immunodeficiency Syndrome (AIDS), Kirtland Community College has adopted these guidelines based upon the recommendation of the American College Health Association.

AIDS is a serious illness, a public health problem, and an immediate concern to the college community. AIDS is characterized as a defect in natural immunity against disease. People who have AIDS are vulnerable to critical illnesses that are not a threat to anyone whose immune system is functioning in a standard and typical fashion.

AIDS is caused by a virus commonly called HIV. Presently, there is no known cure or effective vaccine. However, the consensus of authoritative medical opinion, as reflected by the Center for Disease Control and Public Health Service, is that AIDS is not a readily communicable disease.

There are no known cases of AIDS transmission by food, water, insects, or casual social contact, and no spread of the virus has been found within family groups in which one or more persons have been diagnosed with AIDS, except from sexual and/or intravenous transmission. The current scientific understanding is that the AIDS virus is transmitted only through an exchange of infected body fluids, blood, or blood products. Such exchanges may occur when the needle of an infected person (in most cases, a drug addict) is used by someone else, through a blood transfusion from an infected person, or through intimate contact involving the transfer of semen and vaginal fluids.

NOTE: The use of condoms can significantly reduce spread of this virus. AIDS has not been shown to be transmitted by saliva, tears, nasal secretions, vomitus, urine, or feces. Considering current authoritative medical opinion, there is no basis for routinely excluding or dismissing employees or students because they have AIDS, ARC (AIDS-Related Complex), or AIDS virus antibodies. Since these conditions have been designated as handicaps and are treated as such by the Elliott-Larson Civil Rights Act, it is also against the law to dismiss someone on this basis. Depending on the medical circumstances of each situation, the college may require the monitoring of the medical condition of an infected person, which includes the counseling of that person on the nature of the disease and the importance of not engaging in behavior that could transmit it, if that is appropriate. No broad blood screening test will be required.

The right to privacy of all individuals will be respected and protected, and the confidentiality of any required records that may be required will be maintained. Because the virus is not transmitted by ordinary contact, it is neither necessary nor appropriate for the protection of roommates, classmates, or employees to share with them any information regarding a student or employee with AIDS and AIDS-related conditions.

Kirtland Community College will comply with all federal and state laws and regulations, including those of the United States Public Health Service and the guidelines from the Center for Disease Control and the American Health Association, which bear on the welfare of persons within the college community who test positively to that antibody. It has also adopted the safety guidelines as proposed by the United States Public Health Service "for the handling of blood and body fluids of all persons...." All appropriate college personnel will be trained in and will follow these procedures.

The college will continue to provide information programs designed to acquaint the community with current information about AIDS and how to avoid or minimize the risks of transmission of the virus.

Anyone with questions about AIDS may contact Jacquelyn Smith, nursing instructor. Materials on AIDS will be available in information-dispensing units on campus.

In addition, any student who is concerned or has questions about AIDS or HIV may contact the Grand Traverse, Leelanau, Benzie District Health Department (Tri-County) in Traverse City, P.O. Box 905, Traverse City, MI 49685-0905, 616-922-4381 or the District Health Department #1 in Cadillac for free counseling and/or HIV testing.

ADDITIONAL INFORMATION

COMMUNITY SUPPORT SERVICES

COMMUNITY BASED STUDENT EMPLOYMENT

Part-time student employment with off-campus employers is an option for eligible Kirtland students. Off-campus employers considering participation in this program should contact financial aid at 989-275-5000, extension 257. Since financial aid may not cover 100% of the student's wages, off-campus employers may be obligated to contribute matching funds.

M-TECSM AT KIRTLAND-GAYLORD

The M-TECSM at Kirtland-Gaylord is a state-of-the art facility offering technical education in a unique, flexible, student-friendly manner. The M-TECSM campus is located in Gaylord and features state-of-the-art equipment, pedagogy, and curriculum taught by experienced faculty. Students can choose a course of study and build it from hundreds of skill-specific modules, resulting in a dynamic, flexible program preparing graduates to enter into high-paying jobs.

The mission of the M-TECSM is to provide educational programs and services to individuals in preparation for employment in high-skill, high-wage, high-demand occupations. In addition, through customized training and contracted education, business and industry partners in the Northern Michigan Region and their employees will be provided with educational opportunities specifically designed to upgrade and/or enhance the job skills necessary to compete in a local, state, national, and global economy.

For information, contact the M-TECSM at Kirtland-Gaylord at 989-705-3600. Additional information is also available in the Programs of Study section of this catalog.

COMMUNICATION WITH THE COLLEGE COMMUNITY

COLLEGE CATALOG

The college catalog is the official publication issued by the college, and is available online at: www.kirtland.edu. The catalog includes detailed information concerning programs of study, course descriptions, admission and graduation requirements, and services for students. The contents of the college catalog are subject to change. The catalog is not to be considered as a contract or agreement between the student or the college. For the most current information, check the student class schedule.

CLASS SCHEDULES

A class schedule is a list of courses offered by the college during a semester. This publication provides day, time, and location of each class. Also included is information concerning testing, advising, registration, and other services provided by the college.

The class schedule is available in early April for both summer and fall semesters and in early November for the winter semester. Class schedules are available online at www.kirtland.edu by selecting "Class Schedule".

INFORMATION MONITORS

Monitors that display information that is important to students are stationed in the administration center, the instructional center, the career technology center, library, and the student center. Information includes cafeteria specials, registration dates, athletic highlights, scholarship deadlines, commencement details, class cancellations, and other information that is updated regularly.

CAMPUS NEWSPAPER

The Paper is a college newspaper published bi-weekly and produced by Kirtland students. It includes news stories, feature articles, columns and opinion pieces, sports, and photography of interest to the college community.

Most, but not all, students helping to produce The Paper are enrolled in journalism classes in which students can learn reporting, editing, photography, graphic design, and advertising skills while earning up to three humanities credits toward their associate degree. Opinions expressed in The Paper do not reflect the policy of the Kirtland Board of Trustees, administration, faculty, or staff. For more information about joining The Paper's staff, contact the advisor at 989-275-5000, extension 308.

GLOSSARY OF COLLEGE TERMS

Associate Degree - The degree given for completing college programs of at least two but less than four years of study (60 credit hours or more), usually in a two-year institution such as a junior college or community college.

Certificate - An award for completing a particular program or course of study of 30 or more credit hours, sometimes awarded by two-year colleges instead of the associate degree.

Contact Hours - The total hours of lecture and laboratory instruction for each class. (Fifty instructional minutes equal one contact hour.) Tuition is charged per contact hour.

Corequisite - A required course which, if not taken ahead of time, must be taken at the same time as another class.

Developmental Class - A corrective course designed to assist students who need additional assistance in reading, mathematics, or English.

Elective - A subject or course which is open to choice, i.e., a subject which is optional and not required.

Freshman - Class level for students with less than 30 completed credit hours in their program of study.

Full-Time Students - A student who is enrolled for 12 or more credit hours during fall or winter semesters, or six or more credit hours during summer session.

Humanities Elective - A course from the following subject areas: art, creative writing, foreign language, history, humanities, journalism, literature, music, philosophy, and theatre.

Part-Time Student - A student who is enrolled for 11 or fewer credit hours during the fall or winter semester or five or fewer credit hours during the summer session.

Prerequisite - A requirement for registration in a particular course. For example, Calculus I is a prerequisite for Calculus II.

Science Elective - A course from the following subject areas: natural science (biology, chemistry), or physical science (geology, mathematics or physics).

Social Science Elective - A course from the following subject areas: anthropology, economics, geography, political science, psychology, and sociology.

Sophomore - Class level for students with 30 or more completed credit hours in their program of study.

PROGRAMS OF STUDY

Key: AAS = Associate in Applied Science; AFA = Associate in Fine Arts; AS=Associate in Science;
CC = Certificate of Completion; SC – Special Certificate

ARTS—Pages 55-59

Animation & Game Design, AAS
Graphic Design, SC and CC
Graphic Design, AAS
Fine Arts: Studio Art, AFA

AUTOMOTIVE—Pages 60-65

Automotive Chassis Specialist, SC
Automotive Diesel Service Specialist, CC
Automotive Electrical Systems Specialist, SC
Automotive General, SC
Automotive Powertrain Specialist, SC
Automotive Technology, AAS
Automotive Technology Auto Body Specialist, CC
Automotive Technology Master Certification, CC

BUSINESS—Pages 66-70

Associate in Business Administration, Transfer
Business Management, AAS
Bookkeeping, CC
Entrepreneurship, CC
General Business, CC

COMPUTER INFORMATION SYSTEMS—Pages 71-75

Computer Technician, CC
Web Master, CC
Associate in Computers, Computer Science, Transfer
Associate in Computers, Information Systems, Transfer

CONSTRUCTION TECHNOLOGY—Pages 76-80

M-TECSM/GAYLORD

Carpentry, CC and AAS
Electrical Technology, CC and AAS
Heating/Ventilation/AC/Refrigeration, CC and AAS

COSMETOLOGY—Pages 81-84

Natural Hair Cultivation, SC
Limited Specialist – Natural Hair Cultivation Instructor, SC
Limited Specialist – Manicure Instructor, SC
Limited Specialist – Skin Care Instructor, SC
Cosmetology, CC
Cosmetology Instructor, CC
Nail Technician, CC
Skin Care Technician, CC
Cosmetology, AAS

CRIMINAL JUSTICE—Pages 85-91

Associate in Criminal Justice: Generalist, Transfer
Corrections Administration, AAS
Corrections Administration - Jail Administration, AAS
Correctional Officer, CC
Criminal Justice Administration, AAS
Criminal Justice Pre-Service, AAS

EDUCATION—Pages 92-94

Associate in Teaching, Transfer
Paraprofessional, AAS

HEALTH CAREERS—Pages 95-103

Basic Emergency Medical Technician (EMT), SC
Cardiac Sonography, AAS (M-TEC Gaylord)
Emergency Medical Services, AAS
Massage Therapy, CC and AAS
Nursing - Associate Degree in Nursing - Level II, AAS
Nursing - Practical Nursing – Level I, CC
Nursing – RN from LPN/LVN, AAS
Paramedic, CC
Radiography--page

HONORS PROGRAM—Page 104

INDUSTRIAL TECHNOLOGIES—Pages 105-110

Engineering & Design Technologies, AAS (Central Campus)
Industrial Maintenance, CC and AAS (M-TEC/Gaylord)
Industrial Processes Technician, CC (Central Campus & M-TEC/Gaylord)
Outdoor Power Engines, CC and AAS (M-TEC/Gaylord)
Welding & Fabricating, CC and AAS (Central Campus & M-TEC/Gaylord)

OFFICE INFORMATION SYSTEMS—Pages 111-118

Administrative Assistant, AAS
Advanced Word Processing Specialist, AAS
Legal Secretary, AAS
Medical Billing and Coding, CC
Medical Clerk, CC
Medical Secretary, AAS
Medical Transcription, CC and AAS
Office Assistant, CC
Word Processing Specialist, CC

TECHNOLOGY MANAGEMENT—Pages 119-120

Technology Management, AAS

TRANSFER—Pages 121-133

General Studies, SC and CC
Associate in Arts, AA
Associate in Business Administration, ABA
Associate in Computers, Computer Science
Associate in Computers, Information Systems
Associate in Criminal Justice - Generalist
Associate in Fine Arts, Creative Writing, AFA
Associate in Fine Arts, Studio Art, AFA
Associate in Fine Arts, Theatre Arts, AFA
Associate in Science, Life Science, AS
Associate in Science, Physical Science, AS
Associate in Teaching

PARTNERSHIPS—Pages 134-161

INSTRUCTIONAL DIVISIONS

2008-2009

Kathy Marsh

Dean of Instruction

Career Development
Student Success
Tutoring

Jerry Boerema

Associate Dean of Instruction

Automotive
Carpentry
Core
Cosmetology
Criminal Justice
Electrical Technology
Engineering Design Technologies
Ground School
HVAC/R
Industrial Process Tech
Manufacturing/Machining
Outdoor Power Engines
Police Academy
Welding

Mary Ann Frick

Associate Dean of Health Sciences

Allied Health
EMT/Paramedic
Health Careers
Nursing
Massage
Radiography
Sonography

Lisa Balbach

Chair, Business, Technology & Art

Accounting
Art
Business
Computers
Economics
Marketing
Office Systems

Fred Giacobazzi

Chair, Communication & World Languages

Dev English
English
French
Journalism
Literature
Philosophy
Sign Language
Spanish
Speech

John Thiel

Chair, Social Science, Music & Theatre

Geography
History
Humanities
Music
Political Science
Sociology
Theatre

Marcell Romancky

Chair, Mathematics

Dev Mathematics
Mathematics

Anne Hauser

Chair, Science & Education

Astronomy
Biology
Chemistry
Education--Elementary & Secondary
Geology
Physics

Guide to Understanding the Program Pages

Program Name

Minimum number of credits required for this program

BUSINESS MANAGEMENT
Associate in Applied Science (DBSM0)

Minimum Credits: 60
Contact Hours: 62-67

Introduction
Kirkland's program in Business Administration is designed to provide an overview of the business world and intended to lay a foundation for students who plan to enter the business or industry. Students will develop problem-solving, and creative abilities. Emphasis is placed on management major who plans to eventually acquire a bachelor's degree after completion of the associate degree is how the Associate in Business Administration degree.

Type of degree or certificate, with program code

Tuition is charged by contact hour. This number represents the range of contact hours that a student will be billed for if every course for this program is taken at KCC.

Introductory program information

Course	Title	Cr
ACC-12100	Accounting Principles I	4
ACC-12200	Accounting Principles II	4
BUS-10100	Introduction to Business	3
BUS-21000	Principles of Management	3
BUS-21500	Legal Environment of Business	3
BUS-24500	Personnel Management	3
ECO-20200	Principles of Economics-MACRO	3

Course	Title	Cr
ECO-20200	Principles of Economics-MICRO	3
MKT-20000	Principles of Marketing	3
OIS-10401/2/3 or BUS elective	Keyboarding I-A/B/C OR Business elective	3
OIS-10500	Business Correspondence	3
	Up to 2 credits from below*	0-2

General Education Requirements

0- 2 credit hours of any ACC, BUS, CIS, MKT, or OIS course above

Specific program requirements

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	9-10	• ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3) • ENG-10403 -- English Composition II w/Computers (3) • SPE-10500 -- Fundamentals of Speech (3) - OR SPE-11400 -- Into to Interpersonal & Public Communication (3)
Humanities/Social Science	8-10	• POL-10100 – Introduction to American Government (3) • PSY-10100 – Introduction to Psychology (3) • Any Humanities (2-4)
Math/Natural Science	6-9	• MTH-12000– Intermediate Algebra or higher (3-4) • Any science course with a lab (3-5)

Range of credits accepted to meet this requirement. Minimum numbers are set to allow for courses transferred to KCC which meet our requirements but which have fewer credits than KCC courses.

Special Certificates

- Graphic Design

Certificates

- Graphic Design

Associate in Applied Science

- Animation & Game Design
- Graphic Design

Associate in Fine Art

- Fine Arts: Studio Art

Partnership Programs

Information on these partnerships can be found beginning on page 136.

- College for Creative Studies
- Kendall College of Art & Design

Foundation

Kirtland Community College recognizes the importance of students possessing basic academic skills in English, reading, and mathematics in order to successfully complete college-level courses. Therefore, all entry-level students are required to demonstrate their proficiency in basic academic skills. In the certificate programs there are no English, reading, or mathematics requirements, however, these courses are the foundation for success in all programs. The student's advisor will indicate which of the following courses need to be taken based on ACT scores or COMPASS placement testing results. It is highly recommended that students take these courses during the first semester in order to prepare for the road ahead, as well as possibly satisfying prerequisites needed for more advanced courses. Specific courses needed may be tracked below. *Students must plan additional time to complete their program requirements if placement results require them to begin with DEV courses.*

☐ ENG-10000 Writing Lab (if required)

☐ English: _____

☐ Mathematics: _____

☐ Reading: _____

For more information, please contact the Art Department.

Joe Donna

989-275-5000, extension 226

Scott Rice

989-275-5000, extension 300

ANIMATION AND GAME DESIGN

Associate in Applied Science (DAGD0)

Minimum Credits: 70

Contact Hours: 82-90

Introduction

Kirtland's Associate in Applied Science--Animation and Game Design is designed to provide specialized instruction that is necessary for entry and success in the animation and gaming industry. The curriculum is based upon solid academic, computer operation and studio art courses focusing on conceptual, theoretical, practical, and technical skills. The major core curriculum is based upon traditional practices and in-depth use of technology. After completing the second semester in the program, associate degree candidates need to meet with an advisor to determine if they wish to continue in the program or pursue the Associate in Fine Arts—Studio Art degree to transfer to an institution that grants four-year degrees.*

Course	Title	Cr
ART-10500	Introduction to Design	3
ART-10600	Fundamentals of Drawing I	3
ART-11500	Photography I	3
ART-19000	Digital Communications I	3
ART-20600	Drawing II	3
ART-27545	DS-Computer Generated Images I	3
ART-27565	Comic Book Illustration	3
ART-27571	DS-Computer Animation I	3
ART-27573	DS-Computer Animation II	3
ART-28000	Portfolio	3

Course	Title	Cr
CIS-10500	Introduction to Computers	3
CIS-21000	Internet & Web Page Development	3
CIS-21500	Web Animation & Multimedia	3
CIS-21900	MacIntosh O.S.X.	1
CIS-27001	Programming I	3
CIS-27101	Programming II	4

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	9-10	• ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3) • ENG-10403 – English Composition II w/Computers (3) - OR ENG-10602 – Technical Writing w/Computers (3) • SPE-10500 – Fundamentals of Speech (3) - OR SPE-11400 – Intro to Interpersonal & Pub Communication (3)
Humanities/Social Science	8-11	• POL-10100 – Introduction to American Government (3) • Humanities Elective (2-4) • Social Science Elective, excluding POL-10100 (3-4)
Math/Natural Science	6-9	• MTH-12000 – Intermediate Algebra or higher (3-4) • Science with a lab (3-5)

Note: *This two-for-one option is suggested for Associate in Applied Science: Animation and Game Design students who wish to transfer or for those who have already completed these courses in the Associate in Fine Arts degree.

GRAPHIC DESIGN

Special Certificate (SGRA0)

Minimum Credits: 19
Contact Hours: 25

Introduction

Kirtland's Special Certificate - Graphic Design is designed to provide the student with the basic skills necessary to gain entry-level employment in the graphic design and visual communication industry. The emphasis in the curriculum is comprised of the six required studio art courses based upon traditional practices. Students may also elect to pursue a Certificate – Graphic Design, an Associate of Applied Science – Graphic Design, or an Associate in Fine Arts – Studio Art at any point in this program.

Course	Title	Cr
ART-10600	Fundamentals of Drawing I	3
ART-11500	Photography I	3
ART-19000	Digital Communications I	3

Course	Title	Cr
ART-25000	Illustration I	3
ART-27545	DS-Computer Generated Images I	3
ART-28000	Portfolio	3
CIS-21900	MacIntosh O.S. X	1

GRAPHIC DESIGN

Certificate of Completion (CGRA0)

Minimum Credits: 31
Contact Hours: 40

Introduction

Kirtland's Certificate - Graphic Design is designed to provide the student with the advanced training that is necessary for entry and continuing success in the graphic design and visual communication industry. The curriculum is based upon solid studio art courses focusing on conceptual, practical, and technical skills. The major core curriculum is based upon traditional practices and in-depth use of technology. Students may also elect to pursue an Associate of Applied Science – Graphic Design, or an Associate in Fine Arts – Studio Art at any point in this program.

Course	Title	Cr
ART-10500	Introduction to Design	3
ART-10600	Fundamentals of Drawing I	3
ART-11500	Photography I	3
ART-19000	Digital Communications I	3

Course	Title	Cr
ART-25000	Illustration I	3
ART-27545	DS-Computer Generated Images I	3
ART-28000	Portfolio	3
CIS-21900	MacIntosh O.S. X	1

and two electives from the following list:

ART-20600	Drawing II	3	ART-23500	Digital Communications II	3
ART-21500	Photography II	3	ART-27546	DS-Computer Generated Images II	3

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Life Skills	3	• CIS-10500 – Introduction to Computers (3)

GRAPHIC DESIGN

Associate in Applied Science (DGRA0)

Minimum Credits: 69

Contact Hours: 84-92

Introduction

Kirtland's Associate in Applied Science - Graphic Design is designed to provide specialized instruction that is necessary for entry and success in the graphic design and visual communication industry. The curriculum is based upon solid academic and studio art courses focusing on conceptual, theoretical, practical, and technical skills. The major core curriculum is based upon traditional practices and in-depth use of technology. After completing the second semester in the program, associate degree candidates need to meet with an advisor to determine if they wish to continue in the program or pursue the Associate in Fine Arts – Studio Art degree to transfer to an institution that grants four-year degrees.

Course	Title	Cr
ART-10000	Art History I	3
ART-10103	Art History II	3
ART-10500	Introduction to Design	3
ART-10600	Fundamentals of Drawing I	3
ART-11500	Photography I	3
ART-19000	Digital Communications I	3
ART-20600	Drawing II	3
ART-21500	Photography II	3
ART-23500 or ART-26000	Digital Communications II OR Illustration II	3

Course	Title	Cr
ART-25000	Illustration I	3
ART-27545	DS-Computer Generated Images I	3
ART-27546 or ART-27550	DS-Computer Generated Images II OR Digital Darkroom	3
ART-27571	DS-Computer Animation I	3
ART-28000	Portfolio	3
ART-	Studio Art elective	3
CIS-21900	MacIntosh O.S. X	1

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	9-10	• ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3) • ENG-10403 – English Composition II w/Computers (3) - OR ENG-10602 – Technical Writing w/Computers (3) • SPE-10500 – Fundamentals of Speech (3) - OR SPE-11400 – Intro to Interpersonal & Pub Communication (3)
Humanities/Social Science	8-11	• POL-10100 – Introduction to American Government (3) • Humanities Elective (2-4) • Social Science Elective, excluding POL-10100 (3-4)
Math/Natural Science	6-9	• MTH-12000 – Intermediate Algebra or higher (3-4) • Science with a lab (3-5)

NOTE: *This two for one option is suggested for Associate in Applied Science: Graphic Design students who wish to transfer or for those who have already completed these courses in the Associate in Fine Arts degree.

ASSOCIATE IN FINE ARTS

Studio Art (DAFA1)

Minimum Credits: 60

Contact Hours: 71-82

Introduction

The Associate in Fine Arts: Studio Art degree is designed for students with an interest in studio arts such as sculpture or painting. This degree program works to give students both practical experience in the art form of their choice, and the critical and academic background necessary for further study of the fine arts while helping develop a personal sense of aesthetic and artistic criteria. Because the artist's association with the world is stressed, a strong academic schedule is affiliated with the creative discipline.

Students planning to transfer to a four-year college or university must consult with their advisor and carefully study the requirements of the four-year institution from which they intend to secure a bachelor's degree. Appropriate course substitutions may be made upon the recommendation of a student's advisor and with approval of the appropriate dean or associate dean. Substitutions are only made in accordance with the specific requirements of the baccalaureate degree-granting institution to which the student intends to transfer.

Students who have previously attended other colleges or universities may apply earned transfer credit in subject areas (i.e., psychology elective, biology elective, etc.) where deemed appropriate. This degree satisfies the requirements of the MACRAO Transfer Agreement as defined in the handbook section of this catalog.

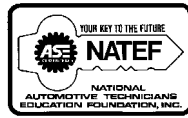
Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	• CIS-10500 – Introduction to Computers (3)* • ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3)* • ENG-10403 – English Composition II w/Computers (3)* • SPE-10500 – Fundamentals of Speech (3)* - OR SPE-11400 – Intro to Interpersonal and Public Communication (3)*
Humanities	11-13	• Select 2-3 credits from Art, Music, or Theater.* • Select 3-4 credits from Non-ART humanities.* • HIS Elective (3) - OR ART-10000 – Art History I (3) - OR ART-10103 – Art History II (3) • Any Art Elective (3)
Social Science	9-10	• GEO-10000 – World Geography (4)* - OR POL-20000 – International Relations (3)* - OR POL-20100 – Comparative Government* (3) • POL-10100 – Introduction to American Government (3)* • SOC-10100 – Introduction to Sociology (3)* - OR PSY-10100 – Introduction to Psychology (3)*
Math/Natural Science	9-14	• MTH-13000 – College Algebra (3-4)* or higher • Select two science courses with a lab from AST, BIO, CHE, GEL, or PHY (6-10)*

* Courses that meet General Education Core Competencies

Studio Art Option:

ART-2800	Portfolio	3
CIS-21900	MacIntosh O.S. X	1
ART-----	Any ART Electives (recommendation: see Studio Art advisor for guidance)	15

All Automotive programs are NATEF certified.



Associate in Applied Science

- Automotive Technology

Certificates

- Automotive Technology Auto Body Specialist
- Automotive Technology Diesel Service Specialist
- Automotive Technology Master Certification

Special Certificates

- Automotive Chassis Specialist
- Automotive Electrical Systems Specialist
- Automotive General
- Automotive Powertrain Specialist

PARTNERSHIP PROGRAMS

Information on these partnerships can be found beginning on page 137.

Bachelor of Business Administration

- Applied Business--Davenport University

Bachelor of Science

- Automotive Engineering Technology —Ferris State University
- Automotive & Heavy Equipment Management--Ferris State University

Foundation

Kirtland Community College recognizes the importance of students possessing basic academic skills in English, reading, and mathematics in order to successfully complete college-level courses. Therefore, all entry-level students are required to demonstrate their proficiency in basic academic skills. In the certificate programs there are no English, reading, or mathematic requirements, however, these courses are the foundation for success in all programs. The student's advisor will indicate which of the following courses need to be taken based on ACT scores or COMPASS placement testing results. It is highly recommended that students take these courses during the first semester in order to prepare for the road ahead, as well as possibly satisfying prerequisites needed for more advanced courses. Specific courses needed may be tracked below. *Students must plan additional time to complete their program requirements if placement results require them to begin with DEV courses.*

- ☐ ENG-10000 Writing Lab (if required)
☐ English: _____

- ☐ Mathematics: _____
☐ Reading: _____

For more information, please contact the Automotive Department.
 Richard Bonk 989-275-5000, extension 329

AUTOMOTIVE TECHNOLOGY

Associate in Applied Science (DAUT0)

Minimum Credits: 78

Contact Hours: 100-105



Introduction

Kirtland's program in Automotive Technology is designed to provide instruction in manipulative skills, technical knowledge and related trade information. Students are given the opportunity to prepare for employment in the automotive industry as certified technicians, service salesmen, or service managers.

This program is certified by the National Automotive Technicians Education Foundation (NATEF). Graduates of this program will be prepared for the Michigan Bureau of Automotive Regulation Mechanic Certification and the National Institute for Automotive Service Excellence (ASE) Technician Certification tests. Graduates will demonstrate competence in all eight of the following areas: 1) engine repair, 2) automatic transmission and transaxle, 3) manual drivetrain, 4) suspension and steering, 5) brakes, 6) electrical/electronic systems, 7) heating and air conditioning, and 8) engine performance. It is recommended that students make an appointment for an interview with an automotive advisor prior to entering the program.

Any student who wishes to pursue a Bachelor's degree should contact his/her advisor during the first semester at Kirtland Community College for guidance. Transfer agreements and/or Articulation agreements are in place with Davenport University and Ferris State University.

Course	Title	Cr
Semester I - Fall		
AUT-16302	Automotive Fundamentals	4
AUT-16401	Basic Electricity	3
AUT-17703	Automotive Braking Systems	4
WLD-10120-10134	Welding & Fabrication Level I	4
Semester II - Winter		
AUT-16100	Engine Fund & Overhaul	4
AUT-16201	Fuel Systems & Emission Control	4
AUT-16801	Automotive Electrical Systems	4
AUT-20404 or AUT-20402 and AUT-20403	Adv. Auto Service Management OR Intro to Auto Service AND Advanced Auto Service	3 2 1

Course	Title	Cr
Semester III - Fall		
AUT-21800	Automatic Transmissions	4
AUT-26500	Steering, Suspension & Alignment	4
AUT-26601	Engine Performance & Diagnostics	4
AUT-27000	Heating & Air Conditioning	3
Semester IV - Winter		
AUT-23104	Automotive Internship	5
AUT-27900	Manual Transmission/ Drivelines/ Axles	4

The following courses are also required for this degree:

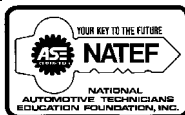
Course	Title	Cr
ENG-10000	• Writing lab, if needed	0-1
ENG-10303	• English Composition I w/Computers	3
ENG-10403	• English Composition II w/Computers	3
MTH-12000	• Intermediate Algebra or higher	3-4
PHY-10501 and PHY-10502	• Physical Science with lab	4
POL-10100	• Introduction to American Government	3
SPE-10500 or SPE-11400	• Fundamentals of Speech OR Intro Interpersonal/Public Comm.	3
	• Any humanities elective	2-4
	• Any Social Science elective	3-4

AUTOMOTIVE TECHNOLOGY MASTER CERTIFICATION

Certificate of Completion (CAUT1)

Minimum Credits: 53

Contact Hours: 75



Introduction

Kirtland's Automotive Technology Master Certification program is designed to provide instruction in manipulative skills and technical knowledge required for employment as an automotive technician. This program is certified by the National Automotive Technicians Education Foundation (NATEF). Graduates of this program will be prepared for the Michigan Bureau of Automotive Regulation Mechanic Certification and the National Institute for Automotive Service Excellence (ASE) Technician Certification tests. Graduates will demonstrate competence in all eight of the following areas: 1) engine repair, 2) automatic transmission and transaxle, 3) manual drivetrain, 4) suspension and steering, 5) brakes, 6) electrical/electronic systems, 7) heating and air conditioning, and 8) engine performance. Students wanting to continue in this program may pursue the Associate in Applied Science – Automotive Technology.

Course	Title	Cr
Semester I - Fall		
AUT-16302	Automotive Fundamentals	4
AUT-16401	Basic Electricity	3
AUT-17703	Automotive Braking Systems	4
WLD-10120-10134	Welding & Fabrication Level I	4
Semester II - Winter		
AUT-16100	Engine Fundamentals & Overhaul	4
AUT-16201	Fuel Systems & Emission Control	4
AUT-16801	Automotive Electrical Systems	4
AUT-20402	Intro Auto Service Management	2
OR AUT-20404	OR Auto Service Management	3

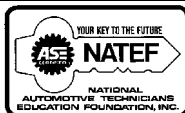
Course	Title	Cr
Semester III - Fall		
AUT-21800	Automatic Transmissions	4
AUT-26500	Steering, Suspension & Alignment	4
AUT-26601	Engine Performance & Diagnostics	4
AUT-27000	Heating & Air Conditioning	3
Semester IV - Winter		
AUT-23104	Automotive Internship	5
AUT-27900	Manual Transmission/Drivelines/Axles	4

AUTOMOTIVE TECHNOLOGY AUTO BODY SPECIALIST

Certificate of Completion (CABS0)

Minimum Credits: 46

Contact Hours: 60



Introduction

Kirtland's Automotive Technology Auto Body Specialist program is designed to provide instruction in manipulative skills and technical knowledge required for employment as an entry level auto body specialist. Graduates of this program will be prepared for the Michigan Bureau of Automotive Regulation Mechanic Certification and the National Institute for Automotive Service Excellence (ASE) Technician Certification tests. Graduates will demonstrate competence in the following areas: 1) electrical and electronic systems, 2) automotive braking systems, 3) heating and air conditioning, 4) automatic transmissions, 5) manual transmissions, drivelines and axles, 6) steering, suspension and alignment, and 7) two semesters of auto body internships. Students wanting to continue in this program may pursue the Associate in Applied Science—Automotive Technology.

Course	Title	Cr
Semester I - Fall		
AUT-16302	Automotive Fundamentals	4
AUT-16401	Basic Electricity	3
AUT-17703	Automotive Braking Systems	4
WLD-10120-10134	Welding & Fabrication Level I	4
Semester II – Winter		
AUT-16801	Automotive Electrical Systems	4
AUT-20402	Intro to Auto Service Management	2

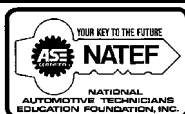
Course	Title	Cr
Semester III - Fall		
AUT-21800	Automatic Transmissions	4
AUT-26500	Steering, Suspension & Alignment	4
AUT-27000	Heating & Air Conditioning	3
AUT-19100	Auto Body Internship—semester 1	5
Semester IV - Winter		
AUT-27900	Manual Transmission/Drivelines/Axles	4
AUT-19200	Automotive Internship—semester 2	5

AUTOMOTIVE TECHNOLOGY DIESEL SERVICE SPECIALIST

Certificate of Completion (CDSS0)

Minimum Credits: 41

Contact Hours: 56



Introduction

Kirtland's Automotive Technology Diesel Service Specialist program is designed to provide instruction in manipulative skills and technical knowledge required for employment as a diesel service specialist. Graduates of this program will be prepared for the Michigan Bureau of Automotive Regulation Mechanic Certification and the National Institute for Automotive Service Excellence (ASE) Technician Certification tests. Graduates will demonstrate competence in the following areas: 1) electrical & electronic systems, 2) fundamentals of diesel technology, diesel engine performance & diagnostics, 6) welding, and 7) one semester of automotive internship. Students wanting to continue in this program may pursue the Associate in Applied Science--Automotive Technology.

Course	Title	Cr
Semester I - Fall		
AUT-16302	Automotive Fundamentals	4
AUT-16401	Basic Electricity	3
WLD-10120-10134	Welding & Fabrication Level I	4
Semester II – Winter		
AUT-16100	Engine Fundamentals & Overhaul	4
AUT-16201	Fuel Systems & Emission Control	4
AUT-16801	Automotive Electrical Systems	4
AUT-20402	Intro to Auto Service Management	2

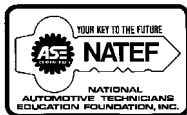
Course	Title	Cr
Semester III - Fall		
AUT-27000	Heating & Air Conditioning	3
AUT-17200	Intro to Diesel Service	4
Semester IV - Winter		
AUT-26700	Diesel Engine Performance & Diag	4
AUT-23104	Automotive Internship	5

AUTOMOTIVE CHASSIS SPECIALIST

Special Certificate (SAUT0)

Minimum Credits: 22

Contact Hours: 31



Introduction

Kirtland's Automotive Chassis Specialist certificate program is designed to provide the student with the necessary skills to gain employment in the automotive industry. This program is certified by the National Automotive Technicians Education Foundation (NATEF). Graduates of this program will be prepared for the Michigan Bureau of Automotive Regulation Mechanic Certification and the National Institute for Automotive Service Excellence (ASE) Technician Certification tests. Students will demonstrate competence in suspension, steering, and brakes. Students wanting to continue in this program may pursue the Certificate – Automotive Technology Master Certification or the Associate in Applied Science – Automotive Technology.

Course	Title	Cr
AUT-16100	Engine Fundamentals & Overhaul	4
AUT-16302	Automotive Fundamentals	4
AUT-26500	Steering, Suspension & Alignment	4

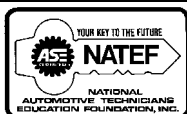
Course	Title	Cr
AUT-17703	Automotive Braking Systems	4
AUT-20402	Intro to Auto Service Management	2
AUT-23101	Auto Service Area – Chassis	4

AUTOMOTIVE ELECTRICAL SYSTEMS SPECIALIST

Special Certificate (SAUT1)

Minimum Credits: 25

Contact Hours: 35



Introduction

Kirtland's Automotive Electrical Systems Specialist certificate is designed to provide the student with the necessary skills and knowledge to gain employment in the automotive electrical field. This program is certified by the National Automotive Technicians Education Foundation (NATEF). Graduates of this program will be prepared for the Michigan Bureau of Automotive Regulation Mechanic Certification and the National Institute for Automotive Service Excellence (ASE) Technician Certification tests for certification in the following: 1) electricity/electronics, and 2) engine performance. Students wanting to continue in this program may pursue the Certificate – Automotive Technology Master Certification or the Associate in Applied Science – Automotive Technology.

Course	Title	Cr
AUT-16201	Fuel Systems & Emission Controls	4
AUT-16302	Automotive Fundamentals	4
AUT-16401	Basic Electricity	3
AUT-16801	Automotive Electrical Systems	4

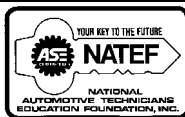
Course	Title	Cr
AUT-20402	Intro to Auto Service Management	2
AUT-23103	Auto Service Area – Electrical	4
AUT-26601	Engine Performance & Diagnostics	4

AUTOMOTIVE GENERAL

Special Certificate (SAUT2)

Minimum Credits: 15

Contact Hours: 18-22



Introduction

Kirtland's Automotive General certificate is designed to introduce the student to automotive technology. Graduates of this program will be prepared for the Michigan Bureau of Automotive Regulation Mechanic Certification and the National Institute for Automotive Service Excellence (ASE) Technician Certification tests for certification in two areas of repair. Areas of instruction will include automotive fundamentals and two automotive electives, as well as a section of the service area course. This program is certified by the National Automotive Technicians Education Foundation (NATEF). Students wanting to continue in this program may pursue the Certificate – Automotive Technology Master Certification or the Associate in Applied Science – Automotive Technology.

Course	Title	Cr
AUT-16302	Automotive Fundamentals	4
AUT-23104	Automotive Internship	5

Course	Title	Cr
AUT-	At least six credits from below	

and six or more credit hours from the following list:

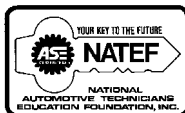
AUT-16100	Engine Fundamentals & Overhaul	4	AUT-27000	Heating & Air Conditioning	3
AUT-16201	Fuel Systems & Emission Control	4	AUT-17703	Automotive Braking Systems	4
AUT-16401	Basic Electricity	3	AUT-27900	Manual Transmission/Drivelines/Axles	4
AUT-26500	Steering, Suspension & Alignment	4	AUT-21800	Automatic Transmissions	4
AUT-16801	Automotive Electrical Systems	4			

AUTOMOTIVE POWERTRAIN SPECIALIST

Special Certificate (SAUT3)

Minimum Credits: 22

Contact Hours: 30



Introduction

Kirtland's Automotive Powertrain Specialist certificate is designed to provide the student with the necessary skills to gain entry-level employment in the automotive industry. This program is certified by the National Automotive Technicians Education Foundation (NATEF). Graduates of this program will be prepared for the Michigan Bureau of Automotive Regulation Mechanic Certification and the National Institute for Automotive Service Excellence (ASE) Technician Certification tests for certification in the following: 1) brakes, and 2) manual drivetrain and axles. Students wanting to continue in this program may pursue the Certificate – Automotive Technology Master Certification or the Associate in Applied Science – Automotive Technology.

Course	Title	Cr
AUT-16100	Engine Fundamentals & Overhaul	4
AUT-16302	Automotive Fundamentals	4
AUT-17703	Automotive Braking Systems	4

Course	Title	Cr
AUT-27900	Manual Transmission/ Drivelines/Axles	4
AUT-20402	Intro to Auto Service Management	2
AUT-23102	Auto Service Area - Powertrain	4

Certificates

- Bookkeeping
- Entrepreneurship
- General Business

Associate in Applied Science

- Business Management

Associate

- Business Administration

PARTNERSHIP PROGRAMS

Information on these partnerships can be found on pages 138-143.

Bachelor of Business Administration

- Business Professional Studies—Davenport University
- Human Resource Management—Davenport University
- International Business—Davenport University
- Management—Davenport University
- Management—Northwood University
- Marketing—Davenport University
- Service Management & Marketing—Davenport University
- Sport Management—Davenport University
- Strategic Human Resource Management – Davenport University

Bachelor of Science

- Accounting—Franklin University
- Business Administration – Franklin University
- Business Administration – Management – Lake Superior State University
- Business Administration – Marketing – Lake Superior State University
- Business Forensics—Franklin University
- eMarketing—Franklin University
- Financial Management—Franklin University
- Forensic Accounting—Franklin University
- Human Resource Management—Franklin University
- Management—Franklin University
- Marketing—Franklin University

Foundation

Kirtland Community College recognizes the importance of students possessing basic academic skills in English, reading, and mathematics in order to successfully complete college-level courses. Therefore, all entry-level students are required to demonstrate their proficiency in basic academic skills. In the certificate programs there are no English, reading, or mathematic requirements, however, these courses are the foundation for success in all programs. The student's advisor will indicate which of the following courses need to be taken based on ACT scores or COMPASS placement testing results. It is highly recommended that students take these courses during the first semester in order to prepare for the road ahead, as well as possibly satisfying prerequisites needed for more advanced courses. Specific courses needed may be tracked below. *Students must plan additional time to complete their program requirements if placement results require them to begin with DEV courses.*

- ☐ ENG-10000 Writing Lab (if required)
- ☐ English: _____

- ☐ Mathematics: _____
- ☐ Reading: _____

For more information, please contact the Business Department.
 Judith Grenkowicz 989-275-5000, extension 219

BOOKKEEPING

Certificate of Completion (CBKP0)

Minimum Credits: 30

Contact Hours: 30-32

Introduction

Kirtland's Bookkeeping certificate offers a completely online program of study that will prepare a student to be a financial record keeper for a business. It will prepare students for entry-level positions in accounts receivable and accounts payable departments, payroll units, income tax firms, and financial services organizations. Students learn the theory of double-entry bookkeeping, the practice of journals and ledgers, preparing payroll documents, and reconciling banking statements. With a certificate in Bookkeeping, jobs are available in just about every corporate business and non-profit organization, including government services, business and consulting firms, retail and wholesale trade, health and social services, finance, insurance, real estate and the service industry. The certificate provides basic training and practical applications needed to analyze and prepare financial documents and handle recordkeeping functions for large and small businesses. Courses in bookkeeping basics, accounting principles, computerized accounting systems, along with computer science, legal environment and customer relations, round out the career skills needed for positions in this field. This program is ideal for self-motivated individuals who are comfortable working with numbers and detailed information in an office setting. This program also provides the basis for students to pursue the Associate in Business Administration degree.

Course	Semester I--Fall	Cr
ACC-10600 or ACC-12100	Fundamentals of Accounting OR Accounting Principles I	4
BUS-10100	Introduction to Business	3
CIS-10500	Introduction to Computers	3
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I w/Cmptrs	3

Course	Semester II Winter	Cr
ACC-12500	Computer Accounting w/Quickbooks	4
ACC-13100	Bookkeeping	4
BUS-21500	Legal Environment of Business	3
MKT-11500	Customer Relations	3

Course	Semester III--Summer	Cr
BUS-20100	Internship	3

ENTREPRENEURSHIP

Certificate of Completion (CENT0)

Minimum Credits: 33

Contact Hours: 33

Introduction

Kirtland's program in Entrepreneurship offers the student a broad exposure to the business world through a selected set of courses, which may be completed in one year. This program is ideal for the small business owner, manager, or those opting to get into small business for the first time. It also works well for those who have technical degrees and want to incorporate knowledge of business with their technical expertise. Students may also elect to pursue the Associate in Applied Science – Business Management at any point in this program.

Course	Title	Cr
ACC-12100	Accounting Principles I	4
ACC-12200	Accounting Principles II	4
ACC-12500	Computer Accounting/QuickBooks	4
BUS-10100	Introduction to Business	3
BUS-20101	Internship in Business & Marketing	3

Course	Title	Cr
BUS-21000	Principles of Management	3
BUS-21500	Legal Environment of Business	3
BUS-24500	Personnel Management	3
MKT-20000	Principles of Marketing	3
OIS-10500	Business Correspondence	3

GENERAL BUSINESS

Certificate of Completion (CBUS0)

Minimum Credits: 31
Contact Hours: 31-34

Introduction

Kirtland's program in General Business is designed to provide an overall background of training that is necessary for entry and success in the business world. The program is intended to lay a foundation for a great variety of entry-level positions that may ultimately lead to mid-management positions in business or industry. Students are given the opportunity to enhance decision-making, problem-solving and creative abilities. Emphasis is placed on management and business communications. Students may also elect to pursue the Associate in Applied Science – Business Management at any point in this program.

Course	Title	Cr
ACC-12100	Accounting Principles I	4
BUS-10100	Introduction to Business	3
CIS-10500 or CIS-17001	Introduction to Computers OR Microsoft Office	3

Course	Title	Cr
OIS-10401/2/3 or OIS-11401/2/3 or -	Keyboarding I-A/B/C* OR Keyboarding II-A/B/C OR Business Elective	3
OIS-10500	Business Correspondence	3

and six credit hours from the following list:

ACC-12500	Computer Accounting/QuickBooks	4	MKT-11500	Customer Relations	3
BUS-201--	Internship in Business & Marketing	3-9	MKT-20000	Principles of Marketing	3
BUS-20200	Grant Writing	3	MKT-20100	Principles of Retailing	3
BUS-21100	E-Commerce Management	3	MKT-20200	Internet Marketing	3
BUS-21500	Legal Environment of Business	3	MKT-20400	Advertising	3
BUS-24500	Personnel Management	3	OIS-18201/2/3	Word Processing I-Word-A/B/C	3
CIS-17001	Microsoft Office	3	OIS-21500	Desktop Publishing for the Office	3

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	6-7	• ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3) • ENG-10403 – English Composition II w/Computers (3)
Math/Natural Science	3-4	• MTH-12000 – Intermediate Algebra or higher (3-4) - OR OIS-11201 – Business Calculations (3)

Notes: * Students who have completed one year of high school typing may take OIS-11401/2/3 Keyboarding II-A/B/C or a Business elective.

BUSINESS MANAGEMENT

Associate in Applied Science (DBSM0)

Minimum Credits: 60
Contact Hours: 62-67

Introduction

Kirtland's program in Business Management is designed to provide an overall background of training that is necessary for entry and success in the business world. The program is intended to lay a foundation for a great variety of entry-level positions that may ultimately lead to mid-management positions in business or industry. Students are given the opportunity to enhance decision-making, problem-solving, and creative abilities. Emphasis is placed on management, marketing, and business communications. Any Business Management major who plans to eventually acquire a bachelor's degree after completion of the associate degree is encouraged to follow the Associate in Business Administration degree.

Course	Title	Cr
ACC-12100	Accounting Principles I	4
ACC-12200	Accounting Principles II	4
BUS-10100	Introduction to Business	3
BUS-21000	Principles of Management	3
BUS-21500	Legal Environment of Business	3
BUS-24500	Personnel Management	3
ECO-20100	Principles of Economics-MACRO	3

Course	Title	Cr
ECO-20200	Principles of Economics-MICRO	3
MKT-20000	Principles of Marketing	3
OIS-10401/2/3 or BUS elective	Keyboarding I-A/B/C OR Business elective	3
OIS-10500	Business Correspondence	3
	Up to 2 credits from below*	0-2

***Select 0- 2 credit hours of any ACC, BUS, CIS, MKT, or OIS course above 100 level**

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	9-10	• ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3) • ENG-10403 -- English Composition II w/Computers (3) • SPE-10500 -- Fundamentals of Speech (3) - OR SPE-11400 -- Into to Interpersonal & Public Communication (3)
Humanities/Social Science	8-10	• POL-10100 – Introduction to American Government (3) • PSY-10100 – Introduction to Psychology (3) • Any Humanities (2-4)
Math/Natural Science	6-9	• MTH-12000– Intermediate Algebra or higher (3-4) • Any science course with a lab (3-5)

ASSOCIATE IN BUSINESS ADMINISTRATION (DABA1)

Minimum Credits: 60
Contact Hours: 62-64

Introduction

The Associate in Business Administration degree is designed for students who plan to eventually complete a bachelor's degree in a business-related field. Listed below are some of the majors pursued by students following this program:

Accounting	Economics	General Business	Marketing	Public Administration
Advertising	Finance	Management	Personnel/Industrial Relations	

Students planning to transfer to a four-year college or university must consult with their advisor and carefully study the requirements of the four-year institution from which they intend to secure a bachelor's degree. Appropriate course substitutions may be made upon the recommendation of a student's advisor and with approval of the appropriate dean or associate dean. Substitutions are only made in accordance with the specific requirements of the baccalaureate degree-granting institution to which the student intends to transfer.

Students who have previously attended other colleges or universities may apply earned transfer credit in subject areas (i.e., psychology elective, biology elective, etc.) where deemed appropriate. This degree satisfies the requirements of the MACRAO Transfer Agreement as defined in the Handbook section of this catalog.

Course	Title	Cr
ACC-12100	Accounting Principles I	4

Course	Title	Cr
ACC-12200	Accounting Principles II	4

Select 4-11 credit hours from the following list:

ACC-12500	Computer Accounting/QuickBooks	4	BUS-24500	Personnel Management	3
BUS-10100	Introduction to Business	3	MKT-11000	Principles of Selling	3
BUS-201--	Internship in Business & Marketing	3-9	MKT-11500	Customer Relations	3
BUS-20200	Grant Writing	3	MKT-20000	Principles of Marketing	3
BUS-21000	Principles of Management	3	MKT-20100	Principles of Retailing	3
BUS-21100	E-Commerce Management	3	MKT-20200	Internet Marketing	3
BUS-21500	Legal Environment of Business	3	MKT-20400	Advertising	3
BUS-24000	Financial Management	3	MKT-21000	Market Research	3

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	• CIS-10500 – Introduction to Computers (3)* • ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3)* • ENG-10403 -- English Composition II w/Computers (3)* • SPE-10500 – Fundamentals of Speech (3)* - OR SPE-11400 – Intro to Interpersonal & Public Communication (3)*
Humanities	8-10	• Select 2-3 credits from Art, Music, or Theater.* • Select 3-4 credits from Journalism, Languages, or Literature.* • Any HIS (History) OR PHL(Philosophy) Elective (3)*
Social Science	12	• Any ANT (Anthropology) OR SOC (Sociology) OR PSY (Psychology) Elective (3)* • ECO-20100 – Principles of Economics (Macroeconomics) (3) • ECO-20200 – Principles of Economics (Microeconomics) (3) • POL-10100 – Introduction to American Government (3)*
Math & Natural Science	9-13	• MTH-13000 College Algebra* or higher (3-4) • MTH-20600 – Application in Statistics (3-4) • One science course with a lab* (3-5)

Certificates

- Computer Technician
- Webmaster

Associate

- Associate in Computer Information Systems
- Associate in Computer Science

PARTNERSHIP PROGRAMS

Information on these partnerships can be found on pages 143-146.

Bachelor of Applied Science

Biometric Security--Davenport University
Computer Gaming & Simulation—Davenport University
Computer Information Systems—Davenport University
Information & Computer Security—Davenport University
Network Security—Davenport University

Bachelor of Science

Computer Information Systems—Ferris State University
Computer Information Systems—Saginaw Valley State University
Computer Science—Central Michigan University
Computer Science—Franklin University
Computer Science—Saginaw Valley State University
Digital Communications—Franklin University
Information Technology—Franklin University
Management Information Science (MIS)—Franklin University
Web Development—Franklin University

Foundation

Kirtland Community College recognizes the importance of students possessing basic academic skills in English, reading, and mathematics in order to successfully complete college-level courses. Therefore, all entry-level students are required to demonstrate their proficiency in basic academic skills. In the certificate programs there are no English, reading, or mathematic requirements, however, these courses are the foundation for success in all programs. The student's advisor will indicate which of the following courses need to be taken based on ACT scores or COMPASS placement testing results. It is highly recommended that students take these courses during the first semester in order to prepare for the road ahead, as well as possibly satisfying prerequisites needed for more advanced courses. Specific courses needed may be tracked below. *Students must plan additional time to complete their program requirements if placement results require them to begin with DEV courses.*

- ☐ ENG-10000 Writing Lab (if required)
☐ English: _____

- ☐ Mathematics: _____
☐ Reading: _____

For more information, please contact the Computer Information Systems Department.

Lisa Balbach (balbachl@kirtland.edu)

989-275-5000, extension 414

Gene Frazier (frazierg@kirtland.edu)

989-275-5000, extension 293

COMPUTER TECHNICIAN

Certificate of Completion (CTEC0)

Minimum Credits: 33

Contact Hours: 33-34

Introduction

Kirtland Community College's Computer Technician program is designed to provide a comprehensive background of training necessary for success in technically oriented, computer-related jobs. Students will acquire skills that will allow them to analyze hardware and software related problems, assess solutions, implement the best solution, and evaluate the results. The program is intended to lay a foundation for a large variety of entry-level positions in the computer repair field. Emphasis is placed on both theoretical and hands-on applications. Students may also elect to pursue the Associate in Applied Science: Technology Management degree at any point in this program.

Required Courses

Course	Title	Cr
CIS-10500	Introduction to Computers	3
CIS-19600	Hardware Certification	3
CIS-19700	OS Certification	3
CIS-22400	UNIX	2
CIS-26000	Intro to Computer Networking	3
CIS-27001	Programming I	3
CIS-280- -	Internship in Computer Info Sys	3-9

Course	Title	Cr
CIS-21000 Or CIS-26100 & CIS-26200 & CIS-26300	Internet & Web Page Development or Internet and Web Pages and Advanced Web Pages	3
ENG-10000	Writing Lab, if needed	0-1
ENG-10303	English Composition I w/Computers	3
Electives	See List Below	1-6

Elective Courses

The courses outlined below are the recommended CIS electives. Students need to take between one and six elective credits to meet certificate requirements.

CIS-11700	Visual Basic I	3	CIS-26400	JavaScript	3
CIS-17001	Microsoft Office	3	CIS-27101	Programming II	4
CIS-22500	Spreadsheets	3	MTH-12000	Intermediate Algebra	4
CIS-23501	Database Design	3	OIS-10100	Basic Keyboarding	1

WEBMASTER

Certificate of Completion (CWEB0)

Minimum Credits: 45

Contact Hours: 46-49

Introduction

Kirtland Community College's Webmaster certificate is designed to provide a background of training necessary for web based programming and development. Students will acquire skills that will allow them to create both static and dynamic (interactive) web pages. Students may also elect to pursue the Associate in Applied Science: Technology Management degree at any point in this program.

Required Courses

The courses outlined below are required in this certificate program:

Course# and Name	Credits
ART-10500 – Introduction to Design	3
ENG-10403– English Composition II w/Computers or ENG-10602 – Technical Writing w/Computers	3
CIS-10500 – Introduction to Computers	3
CIS-11700 – Visual Basic I	3
CIS-21000- Internet and Web Development OR CIS26100 – Internet AND CIS26200 – Web Pages AND CIS26300 – Advanced Web Pages	3
CIS-21500 – Web Animation & Multimedia	3
CIS-22400 – UNIX	2
CIS-26000 – Introduction to Networking	3
CIS-26400 – JavaScript	3
CIS-27001– Programming I	3
CIS-27101 – Programming II	4
CIS-27201 – Web Programming	3
Electives	9
Total Credits	45

Elective Courses

The courses outlined below are recommended CIS electives (students need to take nine elective credits to meet certificate requirements):

ART-19000	Digital Communications I*	3	CIS-17001	Microsoft Office	3
ART-27545	Computer Generated Images I*	3	CIS-23501	Database Design	3
ART-27546	Computer Generated Images II	3	CIS-280--	Internship	3-9
CIS-19600	Hardware Certification	3	MTH-12000	Intermediate Algebra	4
CIS-19700	OS Certification	3	OIS-10100	Basic Keyboarding	1

* Recommended elective courses

ASSOCIATE IN COMPUTERS

Computer Science (DACP0)

Minimum Credits: 60

Contact Hours: 62-69

Introduction

Students interested in pursuing a career in the computer field should plan to eventually complete a bachelor's degree at a four-year school of their choice. Computer majors are found in two separate areas: Computer Information Systems and Computer Science.

Computer Science degrees are mathematically and engineering oriented. Positions of employment would include computer programmers, systems programmers, software engineers, systems engineers, database administrators, network administrators, systems administrators, or systems analysts. Degrees in this area include the following: Software Engineering, Computer Science, Computer Engineering or Computer Networking.

Students planning to transfer to a four-year college or university must consult with a Computer Information Systems (CIS) advisor and carefully study the requirements of the four-year institution from which they intend to secure a bachelor's degree. Appropriate course substitutions may be made upon the recommendation of a student's advisor and with the approval of the appropriate dean. Substitutions are only made in accordance with the specific requirements of the baccalaureate degree granting institution to which the student intends to transfer.

Students who have previously attended other colleges or universities may apply earned transfer credit in subject areas (i.e., psychology, elective, biology elective etc.) where deemed appropriate. This degree also satisfies the requirements of the MACRAO Transfer Agreement as defined in the handbook section of the college catalog.

Year 1:

Fall Semester	
Chemistry w/lab (See CIS advisor for recommended course)	4-5
CIS-10500 Introduction to Computers	3
ENG-10000 Writing Lab, if required	0-1
ENG-10303 English Composition I w/Computers	3
MTH-12000 Intermediate Algebra or higher (excluding MTH-205 & MTH-206)	4

Winter Semester	
ENG-10403 English Composition II w/Computers	3
MTH-13000 or higher or elective course if math sequence is complete (excluding MTH-20500 & MTH-20600)	3-4
MTH-14000 or higher or elective course if math sequence is complete (excluding MTH-20500 & MTH-20600)	3-4
POL-10100 Introduction to American Government	3
PSY-10100 or SOC-10100	3

Year 2:

Fall Semester	
CIS-27001 Programming I	3
GEO-10000, POL-20000, or POL-20100	3-4
Humanities Elective – ART, MUS, or THE	2-3
MTH-22002 or higher or elective course if math sequence is complete (excluding MTH-20500 & MTH-20600)	3-4
SPE-10500 Fundamentals of Speech OR SPE-11400 Intro to Interpersonal & Public Communication	3

Winter Semester	
BIO-10100 or BIO-20100, or BIO-20200 or BIO-21000, or BIO-21300 (See CIS advisor for recommended course)	3-4
CIS-27101 Programming II	4
CIS or MTH Elective (from list below)	2-4
HIS-10500, 10600, 20100, 20200, 20300, or 20400	3
Humanities Elective – Language or Literature (see CIS advisor for course list)	3-4

Electives:

CIS-11700 Visual Basic I	3
CIS-17001 Microsoft Office	3
CIS-22400 UNIX	2
CIS-23501 Database Design	3
CIS-26000 Intro to Computer Networking	3
MTH-22102 Calculus II	4

ASSOCIATE IN COMPUTERS

Information Systems (DACP1)

Minimum Credits: 60

Contact Hours: 65-70

Introduction

Students interested in pursuing a career in the computer field should plan to eventually complete a bachelor's degree at a four-year school of their choice. Computer majors are found in two separate areas: Computer Information Systems and Computer Science.

Computer Information Systems degrees are business oriented. Positions of employment would include computer programmers, application programmers, systems analysts, network administrators, database administrators, systems administrators, web developers, or microcomputer specialists. Degrees in these areas include the following: Management Information Systems (MIS), Computer Information Systems (CIS) or Information Systems (IS).

Students planning to transfer to a four-year college or university must consult with a Computer Information Systems (CIS) advisor and carefully study the requirements of the four-year institution from which they intend to secure a bachelor's degree. Appropriate course substitutions may be made upon the recommendation of a student's advisor and with the approval of the appropriate dean. Substitutions are only made in accordance with the specific requirements of the baccalaureate degree granting institution to which the student intends to transfer.

Students who have previously attended other colleges or universities may apply earned transfer credit in subject areas (i.e., psychology, elective, biology elective etc.) where deemed appropriate. This degree also satisfies the requirements of the MACRAO Transfer Agreement as defined in the handbook section of the college catalog.

Year 1:

Fall Semester	
Chemistry w/lab	4-5
CIS-10500 Introduction to Computers	3
ENG-10000 Writing Lab, if required	0-1
ENG-10303 English Composition I w/Computers	3
MTH-12000 Intermediate Algebra or higher or elective course (from list below) if math sequence is complete (excluding MTH-20500 & MTH-20600)	3-4

Winter Semester	
BIO-10100 or BIO-20100 or BIO-20200 or BIO-21000 or BIO-21300	3-4
ENG-10403 English Composition II w/Computers	3
MTH-13000 College Algebra or elective course (from list below) if math sequence is complete (excluding MTH-20500 & MTH-20600)	3-4
POL-10100 Introduction to American Government	3
PSY-10100 Introduction to Psychology OR SOC-10100 Introduction to Sociology	3

Year 2:

Fall Semester	
CIS-27001 Programming I	3
GEO-10000, POL-20000, or POL-20100	3-4
Humanities Elective – Language or Literature (see CIS advisor for course list)	3-4
SPE-10500 Fundamentals of Speech OR SPE-11400 Interpersonal & Public Comm	3
Elective course (listed below)	3-4

Winter Semester	
CIS-27101 Programming II	4
HIS-10500, 10600, 20100, 20200, 20300, or 20400	3
Humanities Elective – ART, MUS, or THE	2-3
Elective course (from list below)	2-3
Elective course (from list below)	3-4

Electives:

ACC-12100 Accounting Principles I	4
ACC-12200 Accounting Principles II	4
BUS-10100 Introduction to Business	3
CIS-11700 Visual Basic I	3
CIS-17001 Microsoft Office	3
CIS-22400 UNIX	2
CIS-22500 Spreadsheets	3
CIS-23501 Database design	3
CIS-26000 Intro to Computer Networking	3
ECO-20100 Principles of Economics – Macroeconomics	3
ECO-20200 Principles of Economics – Microeconomics	3

The following programs of study are available only at the M-TEC Campus in Gaylord. For more information please contact the M-TEC by telephone at (989) 705-3605, or by email at mtec.kirtland.edu

Certificates

- Carpentry
- Electrical Technology
- Heating/Ventilation/Air Conditioning/Refrigeration

Associate in Applied Science

- Carpentry
- Electrical Technology
- Heating/Ventilation/Air Conditioning/Refrigeration

Partnership Programs

Information on these partnerships can be found on pages 147-148.

Bachelor of Business Administration

- Applied Business—Davenport University

Bachelor of Science

- Engineering Technology—Ferris State University

Foundation

Kirtland Community College recognizes the importance of students possessing basic academic skills in English, reading, and mathematics in order to successfully complete college-level courses. Therefore, all entry-level students are required to demonstrate their proficiency in basic academic skills. In the certificate programs there are no English, reading, or mathematics requirements, however, these courses are the foundation for success in all programs. The student's advisor will indicate which of the following courses need to be taken based on ACT scores or COMPASS placement testing results. It is highly recommended that students take these courses during the first semester in order to prepare for the road ahead, as well as possibly satisfying prerequisites needed for more advanced courses. Specific courses needed may be tracked below. *Students must plan additional time to complete their program requirements if placement results require them to begin with DEV courses.*

☐ ENG-10000 Writing Lab (if required)

☐ Mathematics: _____

☐ English: _____

☐ Reading: _____

Prerequisites:

WorkKeys^R is used to assess the core competency levels of reading, mathematics, locating information, and writing. Students are required to take WorkKeys^R assessments as they proceed to completion of requirements for a certificate and/or degree.

For more information, please contact M-TEC.

989-705-3605

mtec.kirtland.edu

CARPENTRY

Certificate of Completion (CCPT0)

Minimum Credits: 31**Contact Hours: 48**

After completing requirements for the certificate students may continue on with the Associate in Applied Science: Carpentry.

Course	Title
Core Courses	
COR-10001	Basic Safety
COR-10002	Introduction to Construction Math
COR-10003	Introduction to Hand Tools
COR-10004	Introduction to Power Tools
COR-10005	Introduction to Blueprints
COR-10006	Basic Rigging
Carpentry Level I	
CPT-10007	Orientation to the Trade
CPT-10008	Building Materials, Fasteners, & Adhesives
CPT-10009	Hand & Power Tools
CPT-10010	Floor Systems
CPT-10011	Wall & Ceiling Framing
CPT-10012	Roof Framing
CPT-10013	Windows & Exterior Doors
Carpentry Level II	
CPT-10014	Reading Plans & Elevations
CPT-10015	Site Layout I: Distance Measurements
CPT-10016	Concrete & Reinforcing Materials
CPT-10017	Foundation & Flatwork
CPT-10018	Concrete Forms
CPT-10019	Reinforcing Concrete
CPT-10020	Handling & Placing Concrete
CPT-10023	Manufactured Forms

Course	Title
Carpentry Level III	
CPT-20023	Exterior Finish
CPT-20024	Roofing Applications
CPT-20025	Thermal & Moisture Protection
CPT-20026	Stairs
CPT-20027	Framing with Metal Studs
CPT-20028	Drywall One: Installation
CPT-20029	Drywall Two: Finishing
CPT-20030	Interior Finish One: Doors
CPT-20031	Interior Finish Two: Suspended Ceilings
CPT-20032	Interior Finish Three: Window/Door/Ceiling
CPT-20033	Interior Finish Four: Cabinet Installation
Carpentry Level IV	
CPT-20034	Site Layout II: Angular Measurement
CPT-20035	Advanced Roof Systems
CPT-20036	Advanced Floor Systems
CPT-20037	Advanced Wall Systems
CPT-20038	Advanced Stair Systems
CPT-20039	Introduction to Light Equipment
CPT-20040	Welding
CPT-20041	Metal Buildings
CPT-20042	Project Management & Supervision
CAP-10000	Core Capstone
Electives	Choose from CAP 20001-20004, ELT, HVC, IND, MPT, PLB, or WLD (1.1 cr)

CARPENTRY

Associate in Applied Science (DCPT0)

Minimum Credits: 61**Contact Hours: 81-89**

Students who have completed the requirements for the certificate may continue on with the Associate in Applied Science: Carpentry by completing the additional requirements listed below.

Course	Title	Cr
EDT-11000	Detailing with AutoCAD	3

Course	Title	Cr
EDT-14000	Architectural Drawing/CAD	4

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	9-10	- ENG-10000 – Writing Lab, if required (0-1) - ENG-10303 – English Composition I w/Computers (3) - ENG-10403 – English Composition II w/Computers (3) OR ENG-10602 – Technical Writing w/Computers (3) - SPE-10500—Fundamentals of Speech OR SPE-11400—Intro to Interpersonal & Public Communication (3)
Humanities/Social Science	8-11	- POL-10100 – Introduction to American Government (3) - Social Science elective (3-4) - Humanities elective (2-4)
Math/Natural Science	6-9	- MTH-12000—Intermediate Algebra or higher (excluding MTH-20500 & MTH-20600) (3-4) - Any science course with a lab (3-5)

ELECTRICAL TECHNOLOGY

Certificate of Completion (CELC0)

Minimum Credits: 31

Contact Hours: 48

After completing requirements for the certificate, students may continue on with the Associate in Applied Science: Electrical Technology.

Course	Title
Core Courses	
COR-10001	Basic Safety
COR-10002	Introduction to Construction Math
COR-10003	Introduction to Hand Tools
COR-10004	Introduction to Power Tools
COR-10005	Introduction to Blueprints
COR-10006	Basic Rigging
Electrical Technology Level I	
ELT-10044	Electrical Safety
ELT-10045	Hand Bending
ELT-10046	Fasteners & Anchors
ELT-10047	Electrical Theory One
ELT-10048	Electrical Theory Two
ELT-10049	Electrical Test Equipment
ELT-10050	Introduction to the NEC
ELT-10051	Raceways, Boxes, & Fittings
ELT-10052	Conductors
ELT-10053	Introduction to Electrical Blueprints
ELT-10054	Electrical Wiring: Commercial/Industrial
ELT-10055	Electrical Wiring: Residential
Electrical Technology Level II	
ELT-10056	Alternating Current
ELT-10057	Motors: Theory & Application
ELT-10058	Grounding
ELT-10059	Conduit Bending
ELT-10060	Boxes & Fittings
ELT-10061	Conductor Installation
ELT-10062	Cable Tray
ELT-10063	Conductor Terminations & Splices
ELT-10064	Installation of Electrical Services
ELT-10065	Circuit Breakers & Fuses

Course	Title
ELT-10066	Contactors & Relays
ELT-10067	Electrical Lighting
Electrical Technology Level III	
ELT-20068	Load Calculations – Branch Circuits
ELT-20069	Conductor Selection & Calculations
ELT-20070	Overcurrent Protection
ELT-20071	Raceway, Box & Fitting Fill Requirements
ELT-20072	Wiring Devices
ELT-20073	Distribution Equipment
ELT-20074	Distribution System Transformers
ELT-20075	Basic Lighting
ELT-20076	Motor Calculations
ELT-20077	Motor Maintenance, Part I
ELT-20078	Motor Controls
ELT-20079	Electricity in HVAC Systems
ELT-20080	Hazardous Locations
Electrical Technology Level IV	
ELT-20081	Load Calculations – Feeder & Services
ELT-20082	Practical Applications of Lighting
ELT-20083	Standby & Emergency Systems
ELT-20084	Basic Electronic Theory
ELT-20085	Fire Alarm Systems
ELT-20086	Specialty Transformers
ELT-20087	Advanced Controls
ELT-20088	HVAC Controls
ELT-20089	Welding Machines
ELT-20090	Heat Tracing & Freeze Protection
ELT-20091	Motor Maintenance, Part 2
ELT-20092	High Voltage Terminations/Splices
CAP-10000	Core Capstone
Electives	Choose from: CAP-20001-20004, CPT, HVC, IND, MPT, PLB, and/or WLD (3.2 cr)

ELECTRICAL TECHNOLOGY

Associate in Applied Science (DELC0)

Minimum Credits: 61

Contact Hours: 81-89

Students who have completed the requirements for the certificate may continue on with the Associate in Applied Science: Electrical Technology by completing the requirements listed below. **In addition to requirements for the certificate, students must complete the following requirements and any electives necessary.**

Course	Title	Cr	Course	Title	Cr
EDT-11000	Detailing with AutoCAD	3	EDT-14000	Architectural Drawing/CAD	4

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	9-10	• ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3) • ENG-10403 – English Composition II w/Computers (3) • OR ENG-10602 – Technical Writing w/Computers(3) • SPE-10500—Fundamentals of Speech (3) • OR SPE-11400—Intro to Interpersonal & Public Communication(3)
Humanities/Social Science	8-11	• POL-10100 – Introduction to American Government (3) • Social Science elective (3-4) • Humanities elective (2-4)
Math/Natural Science	6-9	• MTH-12000 – Intermediate Algebra or higher (excluding MTH-20500 or 20600) (3-4) • Any science course with a lab (3-5)

HEATING/VENTILATION/AC/REFRIGERATION

Certificate of Completion (CHVC0)

Minimum Credits: 31**Contact Hours: 48**

After completing requirements for the certificate, students may continue on with the Associate in Applied Science: Heating / Ventilation / AC / Refrigeration.

Course	Title
Core Courses	
COR-10001	Basic Safety
COR-10002	Introduction to Construction Math
COR-10003	Introduction to Hand Tools
COR-10004	Introduction to Power Tools
COR-10005	Introduction to Blueprints
COR-10006	Basic Rigging
HVAC Level I	
HVC-10093	Introduction to HVAC
HVC-10094	Trade Mathematics
HVC-10095	Tools of the Trade
HVC-10096	Copper & Plastic Piping Practices
HVC-10097	Soldering & Brazing
HVC-10098	Ferrous Metal Piping Practices
HVC-10099	Basic Electricity
HVC-10100	Introduction to Cooling
HVC-10101	Introduction to Heating
HVAC Level II	
HVC-10103	Chimneys, Vents, & Flues
HVC-10105	Alternating Current
HVC-10106	Basic Electronics
HVC-10109	Accessories & Optional Equipment
HVC-10110	Metering Devices
HVC-10111	Compressors
HVC-10112	Heat Pumps
HVC-10113	Leak Detection, Evacuation, Recovery
HVC-10120	Air Distribution Systems

Course	Title
HVC-10121	Maintenance Skills/Service Tech
HVC-10122	Electric Heating
HVC-10123	Control Circuit Troubleshooting
HVAC Level III	
HVC-20140	Planned Maintenance
HVC-20141	Troubleshooting Gas Heating
HVC-20142	Troubleshooting Electric Heating
HVC-20143	Troubleshooting Oil Heating
HVC-20144	Troubleshooting Cooling
HVC-20145	Troubleshooting Heat Pumps
HVC-20146	Troubleshooting Accessories
HVC-20147	Troubleshooting Electronic Controls
HVC-20148	Hydronic Heating & Cooling Systems
HVC-20149	Airside Systems
HVC-20150	Air Properties/Air System Balancing
HVAC Level IV	
HVC-20128	Advanced Blueprint Reading
HVC-20129	Indoor Air Quality
HVC-20130	Energy Conservation Equipment
HVC-20131	Energy Management Systems
HVC-20132	Water Treatment
HVC-20133	System Start-Up & Shut-Down
HVC-20134	Heating & Cooling System Design
HVC-20135	Commercial & Industrial Refrigeration
CAP-10000	Core Capstone
Electives	Choose from: CAP-20001-20004, CPT, ELT, IND, MPT, PLB and/or WLD (4.9)

HEATING/VENTILATION/AC/REFRIGERATION

Associate in Applied Science (DHCV0)

Minimum Credits: 64**Contact Hours: 81-89**

Students who have completed requirements for the certificate may continue on with the Associate in Applied Science: Heating / Ventilation / AC / Refrigeration by completing the requirements listed below. **In addition to requirements for the certificate, students must complete the following requirements and any electives necessary.**

Course	Title	Cr	Course	Title	Cr
EDT-11000	Detailing with AutoCAD	3	EDT-14000	Architectural Drawing/CAD	4

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	9-10	- ENG-10000 – Writing Lab, if required (0-1) - ENG-10303 – English Composition I w/Computers (3) - ENG-10403 – English Composition II w/Computers (3) OR ENG-10602 – Technical Writing w/Computers (3) - SPE-10500—Fundamentals of Speech (3) OR SPE-11400—Intro to Interpersonal & Public Communication(3)
Humanities/Social Science	8-10	- POL-10100 – Introduction to American Government (3) - Social Science elective (3-4) - Humanities elective (2-4)
Math/Natural Science	6-9	- MTH-12000 – Intermediate Algebra or higher excluding MTH-20500 and MTH-20600 (3-4) - Any science course with a lab (4-5)

Special Certificates

- Limited Specialist Manicure Instructor
- Natural Hair Cultivation
- Natural Hair Cultivation Instructor
- Limited Specialist Skin Care Instructor

Certificates

- Cosmetology
- Cosmetology Instructor
- Nail Technician
- Skin Care Technician

Associate in Applied Science

- Cosmetology

Partnership Programs

Information on this partnership can be found on page 148.

Bachelor of Business Administration

- Applied Business—Davenport University

We welcome high school students into cosmetology programs.

Foundation

Kirtland Community College recognizes the importance of students possessing basic academic skills in English, reading, and mathematics in order to successfully complete college-level courses. Therefore, all entry-level students are required to demonstrate their proficiency in basic academic skills. In the certificate programs there are no English, reading, or mathematic requirements, however, these courses are the foundation for success in all programs. The student’s advisor will indicate which of the following courses need to be taken based on ACT scores or COMPASS placement testing results. It is highly recommended that students take these courses during the first semester in order to prepare for the road ahead, as well as possibly satisfying prerequisites needed for more advanced courses. Specific courses needed may be tracked below. *Students must plan additional time to complete their program requirements if placement results require them to begin with DEV courses.*

- ☐ ENG-10000 Writing Lab (if required)
- ☐ Mathematics: _____
- ☐ English: _____
- ☐ Reading: _____

For more information, please contact the Cosmetology Department.

Shannon Hasty989-275-5000, extension 274

LIMITED SPECIALIST - MANICURE INSTRUCTOR**Minimum Credits: 15**

Special Certificate (SMIN0)

Contact Hours: 30

Introduction: Kirtland's Special Certificate: Limited Specialist - Manicure Instructor program is designed to provide instruction and practice to become a Manicure Instructor. This program leads to a special certificate, preparing students to pass the Michigan State Board Exam for Limited Specialist – Manicure Instructors. Students earn a minimum of 15 credit hours to qualify for graduation.

Course	Title	Cr
COS-20200	Manicure Instructor I	2.5
COS-20300	Manicure Instructor II	2.5
COS-20400	Manicure Instructor III	2.5

Course	Title	Cr
COS-20500	Manicure Instructor IV	2.5
COS-20600	Manicure Instructor V	2.5
COS-20700	Manicure Instructor VI	2.5

NATURAL HAIR CULTIVATION**Minimum Credits: 15**

Special Certificate (SNHC0)

Contact Hours: 24

Introduction: Kirtland's Special Certificate: Natural Hair Cultivation program is designed to provide specialized instruction and practical application for employment. This program leads to a special certificate, preparing students to successfully pass the Michigan State Board Exam in Natural Hair Cultivation, which is required by law to practice Natural Hair Cultivation in Michigan. Students earn a minimum of 15 credit hours to qualify for graduation. Job placement in this program is excellent. Students also have the opportunity to continue their education by enrolling in the Associates Degree program.

Course	Title	Cr
COS-15010	Natural Hair Cultivation I	2.5
COS-15020	Natural Hair Cultivation II	2.5
COS-15030	Natural Hair Cultivation III	2.5

Course	Title	Cr
COS-15040	Natural Hair Cultivation IV	2.5
COS-15050	Natural Hair Cultivation V	2.5
COS-15060	Natural Hair Cultivation VI	2.5

LIMITED SPECIALIST - NATURAL HAIR CULTIVATION INSTRUCTOR

Special Certificate (SNHC1)

Minimum Credits: 15**Contact Hours: 24**

Introduction: Kirtland's Special Certificate: Limited Specialist - Natural Hair Cultivation Instructor program is designed to provide instruction and practice to become a Natural Hair Cultivation Instructor. This program leads to a special certificate, preparing students to pass the Michigan State Board Exam for Limited Specialist - Natural Hair Cultivation Instructor. Students earn a minimum of 15 credit hours to qualify for graduation.

Course	Title	Cr
COS-25010	Natural Hair Cultivation Instructor I	2.5
COS-25020	Natural Hair Cultivation Instructor II	2.5
COS-25030	Natural Hair Cultivation Instructor III	2.5

Course	Title	Cr
COS-25040	Natural Hair Cultivation Instructor IV	2.5
COS-25050	Natural Hair Cultivation Instructor V	2.5
COS-25060	Natural Hair Cultivation Instructor VI	2.5

LIMITED SPECIALIST--SKIN CARE INSTRUCTOR**Minimum Credits: 15**

Special Certificate (SSCI0)

Contact Hours: 24

Introduction: Kirtland's Special Certificate: Limited Specialist – Skin Care Instructor program is designed to provide instruction and practice to become a Limited Specialist – Skin Care Instructor. This program leads to a special certificate, preparing students to pass the Michigan State Board Exam for Limited Specialist – Skin Care Instructor. Students earn a minimum of 15 credit hours to qualify for graduation.

Course	Title	Cr
COS-24100	Skin Care Instructor I	2.5
COS-24200	Skin Care Instructor II	2.5
COS-24300	Skin Care Instructor III	2.5

Course	Title	Cr
COS-24400	Skin Care Instructor IV	2.5
COS-24500	Skin Care Instructor V	2.5
COS-24600	Skin Care Instructor VI	2.5

COSMETOLOGY

Certificate of Completion (CCOS1)

Minimum Credits: 40
Contact Hours: 62.5

Introduction

Kirtland's certificate program in cosmetology is designed to provide specialized instruction and practical application for employment in beauty salons. This program prepares students to successfully pass the Michigan State Board Exam, which is required by law to practice cosmetology in Michigan. Job placement in this program is excellent. The courses are taught in modern facilities utilizing cutting-edge equipment. Students wanting to continue in this program may pursue an Associate in Applied Science – Salon Management degree after they obtain a license.

We welcome high school students into cosmetology programs.

Focus

Course	Title	Cr
COS-12100	Cosmetology I	2.5
COS-12200	Cosmetology II	2.5
COS-12300	Cosmetology III	2.5
COS-12400	Cosmetology IV	2.5
COS-12500	Cosmetology V	2.5
COS-12600	Cosmetology VI	2.5
COS-12700	Cosmetology VII	2.5
COS-12800	Cosmetology VIII	2.5

Course	Title	Cr
COS-12900	Cosmetology IX	2.5
COS-13000	Cosmetology X	2.5
COS-13100	Cosmetology XI	2.5
COS-13200	Cosmetology XII	2.5
COS-13300	Cosmetology XIII	2.5
COS-13400	Cosmetology XIV	2.5
COS-13500	Cosmetology XV	2.5
COS-13600	Cosmetology XVI	2.5

COSMETOLOGY INSTRUCTOR

Certificate of Completion (CCIN1)

Minimum Credits: 55
Contact Hours: 30

Introduction

Kirtland's Cosmetology Instructor program is designed to provide instruction and practice to become a cosmetology instructor. The student must be a licensed cosmetology prior to entering the program. This program prepares students to pass the State of Michigan State Exam for Cosmetology Instructors. The student must have a high school diploma or GED certificate in order to take this exam. Students wanting to continue in this program may pursue an Associate in Applied Science – Salon Management degree after they obtain a license.

We welcome high school students into cosmetology programs.

Focus

Course	Title	Cr
COS-22100	Cosmetology Instructor I	2.5
COS-22200	Cosmetology Instructor II	2.5
COS-22300	Cosmetology Instructor III	2.5
COS-22400	Cosmetology Instructor IV	2.5

Course	Title	Cr
COS-22500	Cosmetology Instructor V	2.5
COS-22600	Cosmetology Instructor VI	2.5
Kirtland Certificate – Cosmetology OR Current State of Michigan Cosmetology License		40

NAIL TECHNICIAN

Certificate of Completion (CNTC0)

Minimum Credits: 30
Contact Hours: 47

Introduction: The Nail Technician program is designed to prepare the student to pass the Michigan State Board Exam, and for employable skills as a nail technician. Students wanting to continue in this program may pursue an Associate in Applied Science: Salon Management degree after they obtain a license. State of Michigan licensure exam may be taken after 400 contact hours.

We welcome high school students into cosmetology programs.

Course	Title	Cr
ACC-10600 or ACC-12500	Fundamental of Accounting Computer OR Accounting/QuickBooks	4
COS-11200	Manicuring I	2.5
COS-11300	Manicuring II	2.5
COS-11400	Manicuring III	2.5
COS-11500	Manicuring IV	2.5

Course	Title	Cr
COS-11600	Manicuring V	2.5
COS-11700	Manicuring VI	2.5
COS-17500	Salon Management	1
ENG-10000	Writing lab, if required	0-1
ENG-10303	English Composition I w/Computers	3
	Elective credits	7

SKIN CARE TECHNICIAN

Certificate of Completion (CSCT0)

Minimum Credits: 30
Contact Hours: 47

Introduction: Kirtland's certificate program in Skin Care (Esthetician) is designed to provide specialized instruction and practical application for employment. This program prepares students to successfully pass the Michigan State Board of Esthetician Exam, which is required to practice skin care in Michigan. State of Michigan licensure exam may be taken after 400 contact hours of skin care (esthetician) courses. Job placement in this program is excellent. Students wanting to continue in this program may pursue an Associate in Applied Science: Salon Management degree after they obtain a license.

We welcome high school students into cosmetology programs.

Course	Title	Cr
ACC-12500 or ACC-10600	Computer Accounting/QuickBooks OR Fundamentals of Accounting	4
COS-14100	Skin Care I	2.5
COS-14200	Skin Care II	2.5
COS-14300	Skin Care III	2.5
COS-14400	Skin Care IV	2.5

Course	Title	Cr
COS-14500	Skin Care V	2.5
COS-14600	Skin Care VI	2.5
COS-17500	Salon Management	1
ENG-10000	Writing lab, if required	0-1
ENG-10303	English Composition I w/Computers	3
	Elective credits	7

COSMETOLOGY

Associate in Applied Science (DSMN4)

Minimum Credits: 60
Contact Hours: 80-103.5

Introduction

Kirtland's associate degree program in Cosmetology is designed to provide specialized instruction in practical application, communication skills, and general knowledge for employment as a licensed cosmetologist. This program prepares students to successfully pass the Michigan State Board of Cosmetology Exam. Job placement in this program is excellent. Students must submit a copy of a current cosmetology license prior to completing this program. Students also have the opportunity to continue their education by enrolling in the Cosmetology Instructor program after obtaining a license.

We welcome high school students into cosmetology programs.

Course	Title	Cr
ACC-xxxxx	Any Accounting course	3-4
BUS-10100	Introduction to Business	3
COS-17500	Salon Management	1

Course	Title	Cr
	Any 1 of 4 Kirtland Certificates– Cosmetology OR Current Michigan Cosmetology License	30-55 40
	Elective credits as needed	0-4

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	6-10	• ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (0-3) • ENG-10403 – English Composition II w/Computers (3) • OR OIS-10500 – Business Correspondence (3) • Any Speech course (3)
Humanities/Social Science	8-11	• Any Humanities elective (2-4) • Any social science course (3-4) • POL-10100 – Introduction to American Government (3)
Math/Natural Science	6-9	• MTH-12000 – Intermediate Algebra or higher (3-4) • Any science course with a lab (3-5)

Certificates

- Correctional Officer

Associate in Applied Science

- Corrections Administration
- Corrections Administration – Jail Administration
- Criminal Justice Administration
- Criminal Justice Pre-Service

Associate

- Criminal Justice – Generalist

PARTNERSHIP PROGRAMS

Information on these partnerships can be found on pages 149-151.

- **Police Academy –**
Alpena Community College
Mid Michigan Community College
North Central Michigan College
- **Bachelor of Business Administration**
Public Safety & Security Management—Davenport University
- **Bachelor of Science**
Criminal Justice—Madonna University/Gaylord
Public Safety Management—Franklin University

Foundation

Kirtland Community College recognizes the importance of students possessing basic academic skills in English, reading, and mathematics in order to successfully complete college-level courses. Therefore, all entry-level students are required to demonstrate their proficiency in basic academic skills. In the certificate programs there are no English, reading, or mathematics requirements, however, these courses are the foundation for success in all programs. The student's advisor will indicate which of the following courses need to be taken based on ACT scores or COMPASS placement testing results. It is highly recommended that students take these courses during the first semester in order to prepare for the road ahead, as well as possibly satisfying prerequisites needed for more advanced courses. Specific courses needed may be tracked below. *Students must plan additional time to complete their program requirements if placement results require them to begin with DEV courses.*

- | | |
|--|---|
| ☐ ENG-10000 Writing Lab (if required) | ☐ Mathematics: _____ |
| ☐ English: _____ | ☐ Reading: _____ |

For more information, please contact the Criminal Justice Department.

Shawn Ott

989-275-5000, extension 283

Jerry Boerema

989-275-5000, extension 323

CORRECTIONAL OFFICER

Certificate of Completion (CCRR1)

Minimum Credits: 32

Contact Hours: 32-34

Introduction

The Correctional Officer certificate prepares graduates for jobs in a prison system as a corrections officer. This one- year certificate of completion incorporates the 15 semester hours of corrections, criminal justice, psychology, sociology, and human relations credits required by the Michigan Department of Corrections. All candidates must maintain a 2.0 cumulative GPA or better, with a C or better in all criminal justice courses. A mandatory dress code is in effect for all students enrolled in the corrections curriculum. Students have the opportunity to plan for transfer to a four-year college or university, and credits may be used toward a corrections administration degree.

Prerequisites

Applicants admitted to this program must meet the following special entrance requirements: 1) have no felony convictions; 2) have a high school diploma or GED; 3) interview by appointment with a criminal justice advisor before entering the program; 4) provide personal background information and sign a release form to facilitate possible background investigation (information and/or investigation may determine eligibility to enter the program); 5) sign and abide by the Criminal Justice Code of Conduct, which includes mandatory dress code; 6) submit proof of a physical examination, if required.

Course	Title	Cr
CJS-10000	Introduction to Criminal Justice	3
CJS-10900	Introduction to Corrections	3
CJS-11000	Careers in Criminal Justice	1
CJS-11100	Legal Issues in Corrections	3
CJS-11200	Client Growth & Development	3

Course	Title	Cr
CJS-17000	Correctional Institutions & Facilities	3
CJS-17103	Correctional Officer's Report Writing	1
CJS-17200	Client Relations in Corrections	3
CJS-24000	Criminology	3
CJS-	CJS elective with advisor approval	3

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	3	• ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3)
Life Skills	3	• CIS-10500 – Introduction to Computers (3)

CORRECTIONS ADMINISTRATION

Associate in Applied Science (DCRA0)

Minimum Credits: 64

Contact Hours: 66-73

Introduction

The Corrections Administration program is concerned with all segments of the criminal justice system. The major emphasis is placed on corrections history, development, sentencing, incarceration, community-based programs, diversion, probation, parole, prisoner's rights, offender violence, supervision, and corrections of the future. Graduates are prepared for jobs within a prison system. All candidates must maintain a 2.0 cumulative GPA or better, with a grade of C or better in all criminal justice courses. A mandatory dress code is in effect for all students enrolled in the corrections curriculum. Students have the opportunity to plan for transfer to a four-year college or university.

Prerequisites

Applicants admitted to this program must meet the following special entrance requirements: 1) have no felony convictions; 2) have a high school diploma or GED; 3) interview by appointment with a criminal justice advisor before entering the program; 4) provide personal background information and sign a release form to facilitate possible background investigation (information and/or investigation may determine eligibility to enter the program); 5) sign and abide by the Criminal Justice Code of Conduct, which includes mandatory dress code; 6) submit proof of a physical examination, if required.

Course	Title	Cr
CJS-10000	Introduction to Criminal Justice	3
CJS-10900	Introduction to Corrections	3
CJS-11000	Careers in Criminal Justice	1
CJS-11100	Legal Issues in Corrections	3
CJS-11200	Client Growth & Development	3
CJS-17000	Correctional Institutions & Facilities	3
CJS-17103	Correctional Officer's Report Writing	1

Course	Title	Cr
CJS-17200	Client Relations in Corrections	3
CJS-20800	Criminal Justice Internship*	3
CJS-21100	Narcotics Investigation	3
CJS-24000	Criminology	3
CJS-27000	Community Based Corrections	3
CJS-	One elective from below	3

and three credit hours from the following list:

CJS-10200	Physical Training I	3	CJS-24500	Social Deviant Behavior	3
CJS-10800	Firearms	3	CJS-28001	Institutional Jail/Prison Administration	3

Note: *Students may take up to nine credits in Criminal Justice Internship.

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	9-10	- ENG-10000 – Writing Lab, if required (0-1) - ENG-10303 – English Composition I w/Computers (3) - ENG-10403 – English Composition II w/Computers (3) - OR ENG-10603--Technical Writing w/Computers (3) - SPE-10500 – Fundamentals of Speech (3) - OR SPE-11400 – Intro to Interpersonal & Public Communication (3)
Humanities/Social Science	11-13	- POL-10100 – Introduction to American Government (3) - PSY-10100 – Introduction to Psychology (3) - SOC-10100 - Introduction to Sociology (3) - Humanities elective (2-4)
Life Skills	3	- CIS-10500 – Introduction to Computers (3) - OR OIS-10401/02/03 – Keyboarding I A, B, & C (3)
Math/Natural Science	6-9	- MTH-12000 – Intermediate Algebra or higher (3-4) - Science Elective AND Lab (3-5)

CORRECTIONS ADMINISTRATION – JAIL ADMINISTRATION

Associate in Applied Science (DCRA1)

Minimum Credits: 64

Contact Hours: 69-75

Introduction

The Corrections Administration - Jail Administration program is concerned with all segments of the criminal justice system. The major emphasis is placed on a 160-hour Local Corrections Academy, dealing with booking, intake and release, suicide awareness, report writing, prison behavior, correctional law, custody and security, PPCT defensive tactics, interpersonal communication, fire and safety, cultural diversity, sexual harassment, ethics, and stress management. Graduates are prepared for jobs within the local jail systems. All candidates must maintain a 2.0 cumulative GPA or better, with a grade of C or better in all criminal justice courses. A mandatory dress code is in effect for all students enrolled in the corrections curriculum. Students have the opportunity to plan for transfer to a four-year college or university.

Prerequisites

Applicants admitted to this program must meet the following special entrance requirements: 1) have no felony convictions; 2) have a high school diploma or GED; 3) interview by appointment with a criminal justice advisor before entering the program; 4) provide personal background information and sign a release form to facilitate possible background investigation (information and/or investigation may determine eligibility to enter the program); 5) sign and abide by the Criminal Justice Code of Conduct, which includes mandatory dress code; 6) submit proof of a physical examination, if required.

Course	Title	Cr
CJS-10000	Introduction to Criminal Justice	3
CJS-10900	Introduction to Corrections	3
CJS-11000	Careers in Criminal Justice	1
CJS-17200	Client Relations in Corrections	3
CJS-20800	Criminal Justice Internship*	3

Course	Title	Cr
CJS-21100	Narcotics Investigation	3
CJS-24000	Criminology	3
CJS-26007	Corrections Academy	10
CJS-27000	Community Based Corrections	3
CJS-	One elective from below	

and three credit hours from the following list:

CJS-10200	Physical Training I	3	CJS-24500	Social Deviant Behavior	3
CJS-10800	Firearms	3	CJS-28001	Institutional Jail/Prison Administration	3

Note: *Students may take up to nine credits in Criminal Justice Internship.

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	9-10	- ENG-10000--Writing Lab, if required (0-1) - ENG-10303--English Composition I w/Computers (3) - ENG-10403--English Composition II w/Computers (3) - OR ENG-10602--Technical Writing w/Computers (3) - SPE-10500--Fundamentals of Speech (3) - OR SPE-11400--Intro to Interpersonal & Public Communication (3)
Humanities/Social Science	11-13	- POL-10100--Introduction to American Government (3) - PSY-10100--Introduction to Psychology (3) - SOC-10100--Introduction to Sociology (3) - Humanities elective (2-4)
Life Skills	3	- CIS-10500--Introduction to Computers (3) - OR OIS-10401/02/03 – Keyboarding I-A, B, & C (3)
Math/Natural Science	6-9	- MTH-12000--Intermediate Algebra or higher (3-4) - Science Elective AND Lab (3-5)

CRIMINAL JUSTICE ADMINISTRATION

Associate in Applied Science (DCJA0)

Minimum Credits: 60

Contact Hours: 62-69

Introduction

Criminal Justice Administration is a program concerned with all branches of law enforcement - federal, state, local, and private agencies - in crime prevention, law enforcement, detection and apprehension of criminals, deterrence of delinquency, corrections, probation, and parole. Graduates are prepared for jobs in any law enforcement agency for positions other than a certified police officer, i.e., corrections, dispatch, juvenile officer. All candidates must maintain a 2.0 cumulative GPA or better, with a grade of C or better in all CJS courses. A mandatory dress code is in effect for all students enrolled in the criminal justice administration curriculum. Students have the opportunity to plan for transfer to a four-year college or university, and credits may be used toward a Corrections Administration degree. Students should contact a criminal justice advisor for further questions.

Prerequisites

Applicants admitted to this program must meet the following special entrance requirements: 1) have no felony convictions; 2) have a high school diploma or GED; 3) interview by appointment with a criminal justice advisor before entering the program; 4) must provide personal background information and sign a release form to facilitate possible background investigation (information and/or investigation may determine eligibility to enter the program); 5) sign and abide by the Criminal Justice Code of Conduct, which includes mandatory dress code; 6) submit proof of a physical examination, if required.

Course	Title	Cr
CJS-10000	Introduction to Criminal Justice	3
CJS-11000	Careers in Criminal Justice	1
CJS-17000	Correctional Institutions & Facilities	3

Course	Title	Cr
CJS-20800	Criminal Justice Internship*	3
CJS-24000	Criminology	3
CJS-	18 hours of electives from below	18

and 18 credit hours from the following list:

CJS-10200	Physical Training I	3	CJS-17200	Client Relations in Corrections	3
CJS-10800	Firearms	3	CJS-21100	Narcotics Investigation	3
CJS-10900	Introduction to Corrections	3	CJS-24500	Social Deviant Behavior	3
CJS-11100	Legal Issues in Corrections	3	CJS-27000	Community Based Corrections	3
CJS-11200	Client Growth & Development	3	CJS-28001	Institutional Jail/Prison Administration	3
CJS-17103	Correctional Officer's Report Writing	1			

Note: *Students may take up to nine credits in Criminal Justice Internship.

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	9-10	• ENG-10000--Writing Lab, if required (0-1) • ENG-10303--English Composition I w/Computers (3) • ENG-10403--English Composition II w/Computers (3) • OR ENG-10602--Technical Writing w/Computers (3) • SPE-10500--Fundamentals of Speech (3) • OR SPE-11400--Intro to Interpersonal & Public Communication (3)
Humanities/Social Science	11-13	• POL-10100--Introduction to American Government (3) • PSY-10100--Introduction to Psychology (3) • SOC-10100--Introduction to Sociology (3) • Humanities elective (2-4)
Life Skills	3	• CIS-10500--Introduction to Computers (3) • OR OIS-10401/2/3 - Keyboarding I A, B, & C (3)
Math/Natural Science	6-9	• MTH-12000--Intermediate Algebra or higher (3-4) • Science Elective AND Lab (3-5)

CRIMINAL JUSTICE PRE-SERVICE

Associate in Applied Science (DCJP0)

Minimum Credits: 67

Contact Hours: 91-96

Introduction

Criminal Justice Pre-Service is a program leading to certification by the Michigan Commission on Law Enforcement Standards (MCOLES). Upon completion of Police Academy and successfully passing a mastery exam administered by MCOLES, students will be eligible for employment as law enforcement officers in most police agencies in Michigan and some other states. Candidates in this program must maintain a GPA of 2.0 or better, with a C or better in all criminal justice courses. A mandatory dress code is in effect for all students enrolled in the criminal justice curriculum. Students have the opportunity to plan for transfer to a four-year college or university, and credits may also be used toward the criminal justice administration degree.

Prerequisites

Applicants admitted to the Pre-Service program must be qualified according to the rules and regulations of MCOLES and follow their policies and procedures. This program has special entrance requirements: 1) possess a valid Michigan motor vehicle operator's or chauffeur's license; 2) have no felony convictions; 3) have a high school diploma or GED; 4) interview by appointment with a criminal justice advisor before entering the program; 5) provide personal background information and sign a release form to facilitate possible background investigation (information and/or investigation may determine eligibility to enter the program); 6) sign and abide by the Criminal Justice Code of Conduct, which includes mandatory dress code; 7) have a physical examination before enrolling in Physical Training class; 8) successfully complete the MCOLES literacy and physical agility exams before entering Police Academy. A complete physical examination and hearing and vision tests are also required prior to entering the Police Academy.

Course	Title	Cr
CJS-10000	Introduction to Criminal Justice	3
CJS-10200	Physical Training I	3
CJS-11000	Careers in Criminal Justice	1
CJS-20800	Criminal Justice Internship	3

Course	Title	Cr
CJS-24000	Criminology	3
CJS-24500	Social Deviant Behavior	3
CJS-26600	Police Academy	21

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	9-10	• ENG-10000--Writing Lab, if required (0-1) • ENG-10303--English Composition I w/Computers (3) • ENG-10403--English Composition II w/Computers (3) • OR ENG-10602 – Technical Writing w/Computers (3) • SPE-10500—Fundamentals of Speech (3) • OR SPE-11400 – Intro to Interpersonal & Public Communication (3)
Humanities/Social Science	12	• POL-10100 – Introduction to American Government (3) • PSY-10100 – Introduction to Psychology (3) • PSY-20200 – Abnormal Psychology (3) • SOC-10100 - Introduction to Sociology (3)
Life Skills	3	• CIS-10500 – Introduction to Computers (3) • OR OIS-10401/2/3 – Keyboarding I-A, B, & C (3)
Math/Natural Science	6-9	• MTH-12000 – Intermediate Algebra or higher (3-4) • Science Elective AND Lab (3-5)

POLICE ACADEMY

The Academy is a 17-week, 40-hour per week, **MCOLES** (Michigan Commission on Law Enforcement Standards) certified program that covers the following: **Investigation** - Introduction to investigation, substantive criminal law, criminal procedure, investigation, court functions and civil law, crime scene process, special investigation, and investigation of domestic violence; **Patrol Procedures** - Patrol operations, interpersonal relations and conflict mediation, patrol techniques, report writing, and juveniles; **Detention and Prosecution** - Receiving and booking process, case prosecution, and civil process; **Police Skills** - First aid, firearms, police physical skills, and emergency vehicle operation; **Traffic** - Motor vehicle law, vehicle stops, traffic control and enforcement, operating under the influence of liquor, and motor vehicle traffic crash investigation; **Special Operations** - Emergency preparedness/disaster control, civil disorders, and tactical operations.

Note: *Students should refer to the pages after the Generalist degree for more information about articulation agreements that are in place with other colleges.

Minimum Credits: 60
Contact Hours: 62-67

The Associate in Criminal Justice - Generalist degree is designed for students who plan to transfer to a four-year college or university, and to help students transferring in from other colleges to meet requirements for entry into the Kirtland Regional Police Academy.

Students who have previously attended other colleges or universities may apply earned transfer credit in subject areas (i.e. psychology elective, biology elective, etc.) where deemed appropriate. This degree satisfies the requirements of the MACRAO Transfer Agreement as defined in the handbook section of this catalog.

Applicants admitted to the Criminal Justice - Generalist program must meet the following special entrance requirements: 1) possess a valid Michigan motor vehicle operator's or chauffeur's license; 2) have no felony convictions; 3) have a high school diploma or GED; 4) interview by appointment with a criminal justice advisor before entering the program; 5) provide personal background information and sign release form to facilitate possible background investigation (information and/or investigation may determine eligibility to enter the program); 6) sign and abide by Criminal Justice Code of Conduct, which includes a mandatory dress code; 7) pass a physical examination before enrolling in physical training class.

Course	Title	Cr
CJS-	Criminal Justice electives with advisor approval	0-4

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	• CIS-10500--Introduction to Computers (3)* • ENG-10000--Writing Lab, if required (0-1) • ENG-10303-English Composition I w/Computers (3)* • ENG-10403--English Composition II w/Computers (3)* • SPE-10500--Fundamentals of Speech (3)* • OR SPE-11400—Intro to Interpersonal & Public Communication (3)*
Humanities	11-13	• Select 2-3 credits from Art, Music, or Theater.* • Select 3-4 credits from Journalism, Languages, or Literature. * • HIS-10500—History of World Societies to 1500 (3)* • OR HIS-10600—History World Societies Since 1500 (3)* • OR HIS-20100--US History to 1865 (3)* • OR HIS-20200--US History Since 1865 (3)* • OR HIS-20300--Michigan History (3)* • OR HIS-20400--American Civil War (3)* • PHL-20100 – Intro to Philosophy (3)* • OR PHL-21000 – Intro to Ethics (3)*
Social Science	15-16	• GEO-10000 – World Geography (4)* • OR POL-20000 – International Relations (3)* • OR POL-20100 – Comparative Government* (3) • POL-10100 – American Government (3)* • PSY-10100 – Introduction to Psychology (3)* • PSY-20200 – Abnormal Psychology (3) • SOC-10100 – Introduction to Sociology (3)*
Math/Natural Science	9-14	• MTH-13000 – College Algebra or higher * (excluding MTH-20500 & MTH-20600) (3-4) • Select two science courses with a lab from BIO, CHE, GEL, or PHY (6-10)*

Note: Students must maintain a GPA of 2.0 or better, and a grade of “C” or better in all criminal justice courses.

Associate in Applied Science

- Paraprofessional

Associate in Teaching

PARTNERSHIP PROGRAMS

Information on these partnerships can be found on page 151.

- **Bachelor of Arts in Elementary Education –**
Spring Arbor University-Gaylord
- **Bachelor of Science in Education, Elementary**
Certification: Central Michigan University
- **Bachelor of Science in Education, Secondary**
Certification: Central Michigan University

Foundation

Kirtland Community College recognizes the importance of students possessing basic academic skills in English, reading, and mathematics in order to successfully complete college-level courses. Therefore, all entry-level students are required to demonstrate their proficiency in basic academic skills. In the certificate programs there are no English, reading, or mathematic requirements, however, these courses are the foundation for success in all programs. The student’s advisor will indicate which of the following courses need to be taken based on ACT scores or COMPASS placement testing results. It is highly recommended that students take these courses during the first semester in order to prepare for the road ahead, as well as possibly satisfying prerequisites needed for more advanced courses. Specific courses needed may be tracked below. *Students must plan additional time to complete their program requirements if placement results require them to begin with DEV courses.*

- ☐ ENG-10000 Writing Lab (if required)
☐ English: _____
- ☐ Mathematics: _____
☐ Reading: _____

For more information, please contact the Education advisors.		
Don Dyer	Paraprofessional AAS	989-275-5000, extension 231
Denise Kemp	Associate in Teaching	989-275-5000, extension 391
Marcell Romancky		989-275-5000, extension 290

PARAPROFESSIONAL

Associate in Applied Science (DPRO0)

Minimum Credits: 60**Contact Hours: 62-63****Introduction**

Most paraprofessionals who work in schools who receive Title I funds are now required to complete an associate's degree or two years of study at an institution of higher learning, and/or pass a formal assessment to demonstrate knowledge and ability to assist in reading, writing, and mathematics instruction. There are many different associate degrees at Kirtland from which a student may select, but this program is tailored to those who want to focus primarily on courses that will provide direct benefit on the job.

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	9-10	• ENG-10000--Writing Lab, if required (0-1) • ENG-10303--English Composition I w/Computers (3) • ENG-10403--English Composition II w/Computers (3) • Any speech course (3)
Education	6	• EDU-10000--Introduction to Teaching (3) • EDU-24000--Technology in Education (3)
Humanities/Social Science	8-10	• Any Humanities Elective (2-4) • PSY-10100--Introduction to Psychology (3) • POL-10100--Intro to American Government (3)
Life Skills	3	• CIS-10500--Introduction to Computers (3)
Math/Natural Science	12-15	• MTH-12000--Intermediate Algebra or higher (3-4) • MTH-11700--Mathematics for Elementary Teachers I (3) • MTH-21700--Mathematics for Elementary Teachers II (3) • One science course with a lab (3-5)

Students must also complete the elective courses below. Please see an advisor for assistance selecting your program electives.

A maximum of three credits in Physical Education courses can be used to meet degree requirements.

Course	Title	Cr
Electives	Electives – Select any 100-level or higher courses*	16-22

ASSOCIATE IN TEACHING (DATG0)

Minimum Credits: 60
Contact Hours: 60-63

Introduction

The following program will prepare students who plan to be an elementary or secondary teacher. The program is designed for students who will be transferring to nearby universities to earn a bachelors degree in teaching. **Students should identify which university they plan to transfer to and meet with an advisor from that university during their freshman year at Kirtland Community College.** With curriculum information from the university, the student's Kirtland advisor can customize the students' freshman and sophomore schedule to best select the appropriate transfer courses. There may be substitutions to the curriculum below depending on the major, minor, university, and level of teaching targeted. You must meet with Marcell Romancky and Denise Kemp, they are designated advisors at Kirtland Community College that can help students who are planning to become school teachers.

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	9-10	• ENG-10000--Writing Lab, if required (0-1) • ENG-10303--English Composition I w/Computers (3) • ENG-10403--English Composition II w/Computers (3) • SPE-10500 – Fundamentals of Speech (3) - OR SPE-11400 – Intro to Interpersonal & Public Communication (3)
Education	6	• EDU-10000 – Introduction to Teaching (3) • EDU-24000 – Technology in Education (3)
Humanities/Social Science	25-26	• ENG-23000 – American Literature before 1865 (3) - OR ENG-23100 – American Literature after 1865 (3) • FRE-11000 – French I (3-4) - OR SPN-11000 – Spanish I (3-4) • GEO-10000 – World Geography (4) • HIS-20100 – United States History to 1865 (3) - OR HIS-20200 – United States History since 1865 (3) • MUS-10100 – Music History (3) • PHL-21000 – Introduction to Ethics (3) • POL-10100 – Introduction to American Government (3) • PSY-10100 – Introduction to Psychology (3)
Life Skills	3	• CIS-10500 – Introduction to Computers (3)
Math/Natural Science	9-12	• MTH-12000 – Intermediate Algebra (3-4) • AST-10201 – Astronomy I (3) AND AST-10202 – Astronomy I lab (1) • BIO-10100 – General Biology (3-4)

Select one option from below to complete the degree specialization you are seeking:

Elementary Education Option		
Course	Title	Cr
MTH-11700	Mathematics for Elementary Teachers I	3
MTH-21700	Mathematics for Elementary Teachers II	3

Secondary Education Option		
Course	Title	Cr
MTH-13000	College Algebra or higher	4

Course	Title	Cr
Electives	Electives – Select any 100-level or higher courses* (if needed)	0-3

Special Certificates

- Basic Emergency Medical Technician

Certificates

- Massage Therapy
- Paramedic
- Practical Nursing – Level I (Full and Part Time programs)

Associate in Applied Science

- Cardiac Sonography
- Emergency Medical Services (Paramedic)
- Massage Therapy
- Nursing – Level II (Full and Part Time programs)
- Nursing – RN from LPN/LVN

PARTNERSHIP PROGRAMS

Information on these partnerships can be found on pages 152-154.

Associate in Applied Science

- Radiography – Mid Michigan Community College

Bachelor of Business Administration

- Health Services Administration—Davenport University

Bachelor of Science

- Healthcare Management—Franklin University
- Medical Case Management—Davenport University

Bachelor of Science in Nursing

- Davenport University

Foundation

Kirtland Community College recognizes the importance of students possessing basic academic skills in English, reading, and mathematics in order to successfully complete college-level courses. Therefore, all entry-level students are required to demonstrate their proficiency in basic academic skills. In the certificate programs there are no English, reading, or mathematic requirements, however, these courses are the foundation for success in all programs. The student's advisor will indicate which of the following courses need to be taken based on ACT scores or COMPASS placement testing results. It is highly recommended that students take these courses during the first semester in order to prepare for the road ahead, as well as possibly satisfying prerequisites needed for more advanced courses. Specific courses needed may be tracked below. *Students must plan additional time to complete their program requirements if placement results require them to begin with DEV courses.*

- ☐ ENG-10000 Writing Lab (if required)
☐ English: _____

- ☐ Mathematics: _____
☐ Reading: _____

For more information, please contact the Health Careers Department.

Anne Essmaker
 Bobbie Otwell (for Cardiac Sonography)

989-275-5000, ext. 372
 989-705-3605

BASIC EMERGENCY MEDICAL TECHNICIAN (EMT)

Special Certificate (SEMT0)

Minimum Credits: 10

Contact Hours: 14

Introduction

The Basic EMT Certification program covers all basic techniques in emergency medical care within the responsibilities of the Basic Emergency Medical Technician (EMT) as a first responder and basic life supporter. Upon successful completion of this program, the student will be eligible to take the national certification examination, which is required to obtain a state license. Students wanting to continue in this program may pursue the Certificate - Paramedic or the Associate in Applied Science – Emergency Medical Services (Paramedic) degrees.

The following course is the only required course in this program.

Course	Title	Cr
ALH-21701	Basic Emergency Medical Technician	10

Notes:

- Conviction for some criminal offenses may render a candidate ineligible for taking the national certification examination.
- Students are required to complete all required courses with a grade of “C” or better.
- A student must be at least 18 years of age.

PARAMEDIC

Certificate of Completion (CPAR0)

Minimum Credits: 52

Contact Hours: 62-64

Introduction

The Paramedic program is designed to provide basic knowledge and skills training necessary for entry-level positions as paramedics in advanced life support and transport. Following successful completion of this program, students are eligible to take the national certification examination for paramedics, which is required to obtain a state license. Students wanting to continue in this program may pursue the Associate in Applied Science – Emergency Medical Services (Paramedic) degree.

Prerequisites

Students must have completed the Basic EMT program and be eligible for licensure, **or** have current valid State of Michigan Basic EMT license.

Some of the courses listed may have prerequisites (listed in the course description section of the catalog). Therefore, students should consult advisors for assistance in planning course schedules.

Course	Title	Cr
ALH-21500	Paramedic I	13
ALH-22500	Paramedic II	13
ALH-23500	Paramedic III	16

Course	Title	Cr
ALH-24500	Paramedic IV	7
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I w/Computers	3

Notes:

- Conviction for some criminal offenses may render a candidate ineligible for taking the national certification examination.
- Students are required to complete all required courses with a “C” or better.
- A student must be at least 18 years of age.

FOR ADVISING IN THE ABOVE PROGRAMS PLEASE CALL ANNE ESSMAKER (989) 275-5000, EXT 372

EMERGENCY MEDICAL SERVICES

Minimum Credits: 60

Associate in Applied Science (DEMS0)

Contact Hours: 30-33 (*beyond Paramedic License*)

Introduction

The Associate in Applied Science degree in Emergency Medical Services (E.M.S.) is designed to prepare students for entry-level positions as paramedics while providing a solid basis for continued professional growth and career mobility. This program will provide students with the basic knowledge and skills necessary to function as an advanced emergency care provider, as well as give them additional education that will prepare them for advancement in EMS or in another related health field, such as nursing. Following successful completion of this program, students are eligible to take the national certification examination for paramedic.

Prerequisites

Students must have completed the Basic EMT program and be eligible for licensure, **or** have current valid State of Michigan Basic EMT license.

Course	Title	Cr
	Current Paramedic License	31
ALH-10101	Medical Terminology	2
ALH-11201	Medical Ethics & Law	1
BIO-10700	Essentials of Anatomy & Physiology	4
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I w/Computers	3

Course	Title	Cr
ENG-10403	English Composition II w/Computers	3
MTH-12000	Intermediate Algebra or higher	3-4
POL-10100	Intro to American Government	3
PSY-10100	Introduction to Psychology	3
SPE-----	Any speech course	3
	Any Humanities elective	2-4
	Elective credit, if needed	0-2

Notes:

- Conviction for some criminal offenses may render a candidate ineligible for taking the national certification examination.
- Students are required to complete all required courses with a grade of "C" or better.
- A student must be at least 18 years of age.

NURSING ASSISTANT COURSE

Credits: 6

Contact Hours: 8

Kirtland Community College offers a nursing assistant course each semester to prepare students to take the state examination to be certified as a Nursing Assistant. ***The student is responsible for paying the fee to take the certification exam.***

Course	Title	Cr
ALH-10400	Nursing Assistant	6

Notes:

- Conviction for some criminal offenses may render a candidate ineligible for taking course and/or the certification examination.
- Students are required to complete the course with a grade of "C" or better.
- A student must be at least 18 years of age.
- There are abilities (with or without accommodation) that a student in this program must have. A list of these abilities can be obtained from the health careers advisor. Based on history and physical examination findings, and these required abilities, a recommendation from a health care provider is required prior to beginning the program.

FOR ADVISING IN THE ABOVE PROGRAM PLEASE CALL ANNE ESSMAKER (989) 275-5000, EXT 372

CARDIAC SONOGRAPHY

Associate in Applied Science (DSON1)

Minimum Credits: 78.5

Contact Hours: 93.5-98.5

Advisor: Bobbie Otwell @ the M-TEC campus in Gaylord (989) 705-3605; otwellb@kirtland.edu

Introduction

The Cardiac Sonography program is a program of study offered at the M-TEC campus in Gaylord. The curriculum provides the individual with the knowledge and skills necessary to visualize and evaluate the human heart and vascular structures within a health care setting. A Cardiac Sonographer is a health care professional who uses high frequency sound waves to produce images of the heart and vascular structures in order for physicians to diagnose and treat various health care problems.

Admission Requirements

Students must complete prerequisite and general education courses with a minimum GPA of 2.0 and have earned a minimum GPA of 3.0 in all Anatomy and Physiology courses including labs. Students will be admitted in cohort groups beginning in the fall or winter semesters. Students ready for admission will be ranked by date of KCC application where sonography is declared to be the program of study or by the date the program of study was changed to sonography. Preference will be given to students who have completed the general education courses. Students who are admitted to begin program courses must plan to continue the program courses as outlined.

Prerequisite Courses

Course	Title	Cr
ALH-10101	Medical Terminology	2
ALH-20201	Standard First Aid	1
BIO-10700	Essentials of Anatomy & Physiology	4
CIS-10500	Introduction to Computers	3

Course	Title	Cr
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I w/Computers	3
MTH-12000	Intermediate Algebra or higher	3-4

General Education Courses

Course	Title	Cr
ENG-10403	English Composition II w/Computers	3
POL-10100	Introduction to American Government	3
PSY-10100	Introduction to Psychology	3
SPE-	Any Speech Elective	3
	Any Humanities Elective	2-4

Program Courses (program admission required; courses must be taken as outlined)

Semester One:

SON-10000	Into to Sonography Patient Care	3
SON-10500	Cardiac A & P	3
SON-11000	Ultrasound Physics	3
SON-11500	Cardiac Principles/Lab I	4

Semester Two:

SON-12500	Echo I	4
SON-13000	Cardiac Principles/Lab II	4
SON-13500	Clinical Practice I	2

Semester Three:

SON-15000	Echo II	4
SON-15500	Cardiac Principles/Lab III	4
SON-16000	Clinical Practice II	2

Semester Four:

SON-22000	Externship	15.5
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FOR ADVISING IN THE ABOVE PROGRAM PLEASE CALL BOBBIE OTWELL (989) 705-3605

MASSAGE THERAPY Certificate of Completion (CMAS0)

Minimum Credits: 39.5
Contact Hours: 41.5-43.5

Introduction

The Kirtland Community College Massage Therapy program is dedicated to advancing the science and art of massage therapy. Students completing the program will be prepared to practice massage therapy and to register for the National Certification Examination for Professional Massage and Bodywork. A minimum of 39.5 credit hours and 664 actual contact hours are required. Students wanting to continue in this program may pursue the Associate in Applied Science – Massage Therapy degree.

Prerequisites: Students must successfully complete the prerequisite courses in Semester I – Fall, before being admitted to the program.

Courses that are marked with an asterisk (*) below may be taken in any of the four semesters, as long as the student takes the prerequisite general education courses first (i.e., BIO-10700 before ALH-10801).

Course	Title	Cr
Semester I – Fall (Prerequisites to program)		
ALH-10101	Medical Terminology	2
BIO-10700	Essentials of Anatomy/Physiology	4
MAS-10000	Introduction to Massage Therapy	1

Semester II – Winter		
ALH-10801	Pathology*	3
MAS-10200	Introduction to Clinic Operations	1
MAS-10300	Swedish Massage I	2
MAS-11000	Massage Skills Lab	1
MAS-12801	Integrated Structural Dynamics	2
MAS-12300	Structural Based Bodywork I	1
MAS-13004	Topics I	1

Course	Title	Cr
Semester III – Summer		
MAS-12200	Clinic I	2
MAS-10400	Swedish Massage II	2
MAS-12401	Structural Based Bodywork II	3

Semester IV – Fall		
ALH-11201	Medical Ethics & Law*	1
ALH-20201	Standard First Aid* or current First Aid & CPR Cards	1
ENG-10000	Writing Lab, if required *	0-1
ENG-10303	English Composition I w/Computers*	3
MAS-12500	Structural Based Bodywork III	1
MAS-12600	Energy Based Bodywork I	2
MAS-12700	Energy Based Bodywork II	2
MAS-13005	Topics II	1
MAS-13100	Clinic II	2
MAS-13500	Massage Practice	1.5

Notes:

- There are abilities (with or without accommodation) that a student in this program must have. A list of these abilities can be obtained from the health careers advisor. Based on history and physical examination findings, and these required abilities, a recommendation from a health care provider is required prior to beginning the program.
- Students are required to complete all required courses with a grade of C or better.
- A student must be at least 18 years old by Semester II.
- An authorization for release of information with regard to criminal history is required.

FOR ADVISING IN THE ABOVE PROGRAM PLEASE CALL ANNE ESSMAKER (989) 275-5000, EXT 372

MASSAGE THERAPY

Associate in Applied Science (DMAS0)

Minimum Credits: 60.5

Contact Hours: 63.5-65.5

Introduction

Kirtland's Massage Therapy program is dedicated to advancing the science and art of massage therapy. Students completing the program will be prepared to practice massage therapy and to register for the National Certification Examination for Professional Massage and Bodywork. A minimum of 60.5 credit hours and 1,016 actual contact hours are required.

Prerequisites: Students must successfully complete the prerequisite courses in Semester I – Fall, before being admitted to the program.

Course	Title	Cr
Semester I – Fall (Prerequisites to the program)		
ALH-10101	Medical Terminology	2
BIO-10700	Essentials of Anatomy/Physiology	4
MAS-10000	Introduction to Massage Therapy	1

Course	Title	Cr
Semester III – Summer		
MAS-10400	Swedish Massage II	2
MAS-12200	Clinic I	2
MAS-12401	Structural Based Bodywork II	3

Semester II – Winter		
MAS-10200	Introduction to Clinic Operations	1
MAS-10300	Swedish Massage I	2
MAS-11000	Massage Skills Lab	1
MAS-12801	Integrated Structural Dynamics	2
MAS-12300	Structural Based Bodywork I	1
MAS-13004	Topics I	1

Semester IV - Fall		
MAS-12500	Structural Based Bodywork III	1
MAS-12600	Energy Based Bodywork I	2
MAS-12700	Energy Based Bodywork II	2
MAS-13005	Topics II	1
MAS-13100	Clinic II	2
MAS-13500	Massage Practice	1.5

The following courses are also required for this degree and may be taken in any of the four semesters, as long as the student takes the prerequisite general education courses first (i.e., ENG-10303 before ENG-10403).

Course	Title	Cr
ALH-10801	Pathology	3
ALH-11201	Medical Ethics & Law	1
ALH-20201	Standard First Aid or current First Aid and CPR cards	1
BUS-10100	Introduction to Business	3
CIS-10500	Introduction to Computers	3
ENG-10303	English Composition I w/Computers	3
ENG-10000	Writing lab, if needed	0-1
ENG-10403	English Composition II w/Computers	3
MTH-12000	Intermediate Algebra or higher, or competency	0-4
POL-10100	Introduction to American Government	3
PSY-10100	Introduction to Psychology	3
	Any Humanities Elective	2-4
	Any Speech Course	3
	Elective, if needed	0-1

Notes:

- There are abilities (with or without accommodation) that a student in this program must have. A list of these abilities can be obtained from the health careers advisor. Based on history and physical examination findings, and these required abilities, a recommendation from a health care provider is required prior to beginning the program.
- Students are required to complete all required courses with a grade of “C” or better.
- A student must be at least 18 years old by Semester II.

FOR ADVISING IN THE ABOVE PROGRAM PLEASE CALL ANNE ESSMAKER (989) 275-5000, EXT 372

PRACTICAL NURSING – LEVEL I

Certificate of Completion (CLPN0)

Minimum Credits: 40

Contact Hours: 59-71

Introduction: The Level I Nursing program at Kirtland is designed to prepare students for entry-level positions as practical nurses. Following successful completion of this program, graduates are eligible to take the licensure exam to practice as a Licensed Practical Nurse (LPN). The program is also designed to provide career mobility and a foundation for continued learning by serving as the first year of the associate degree nursing program. Students can attend school and complete the nursing program on a part- or full-time basis. The program must be completed within two years after beginning the nursing courses. Programs are offered at the Central campus in Roscommon and the M-TECSM campus in Gaylord. Each class of nursing students is considered a cohort (group) and courses/schedules are assigned. Students must consult with the health careers advisor before making any schedule changes or changing from full-time to part-time.

Admission Requirements - Practical Nursing - Level I: Applicants must be granted regular admission to Kirtland and meet the following requirements to be considered for admission to the Practical Nursing program:

- Demonstrate proficiency in basic academic skills in writing, reading, and mathematics. If placement testing indicates that developmental writing and/or reading courses must be taken by the student, then such courses must be completed successfully with an “SC” or better unless otherwise noted.
- Computer skills are essential to program success (internet, email, word processing).
- Successfully complete all required prerequisite courses with grade of “C” or better, except where noted.
- Students requesting admission to the program must submit a Request for Admission to Nursing form, available in Health Careers and Student Services, and turn it into the Health Careers office between January 1 and April 1 of the calendar year in which the student is requesting admission to the nursing program. Acceptance letters will be mailed by the first week of June.

Note: If applicants exceed the number of available seats in the program, priority will be given to students with required prerequisites and general education courses completed, then by date of KCC application where nursing is declared to be the program of study or by the date the program of study was changed to nursing.

Prerequisites: Students must successfully complete the following courses before being admitted to the nursing program.

Course	Title	Cr		Course	Title	Cr
ALH-10101	Medical Terminology	2		DEV-07300	Basic Algebra or competency	0-4
ALH-20201	Standard First Aid (taken just prior to program OR substitute professional CPR taken within 3 months prior to start of clinical)	0-1		DEV-07400	Basic Algebra Lab, if required	0-1
BIO-10701/2	Essentials of Anatomy & Physiology (with grade of “B” or better)	4	OR	ENG-10000	Writing Lab, if required	0-1
	Semester I – Fall			ENG-10303	English Composition I w/Computers	3
NUR-10300	Nursing Essentials	2		BIO-11500	Anatomy & Physiology I	8
NUR-10502	Foundations of Nursing	3		BIO-11600	AND Anatomy & Physiology II (with grade of “B” or better)	
NUR-10700	Mental Health Concepts	1			Semester II - Winter	
NUR-10803	Nursing Practice Lab	3		NUR-12304	Nursing Clinical II	5
NUR-10804	Nursing Clinical I	2		NUR-12503	Adult Medical-Surgical Nursing	4
NUR-10900	Pharmacology I	2		NUR-12800	Maternal-Child Nursing Care	2
				NUR-20900	Pharmacology II	2
					Semester III – Summer	
				NUR-13302	Current Issues in Nursing	1
				NUR-13402	Nursing Clinical III	2

PART-TIME OPTION

Students also have the option of completing this program on a part-time basis in five semesters. Information about the semester sequence for part-time students is available from the health careers advisor.

Notes

- Conviction for some criminal offenses may render a candidate ineligible for writing the examination (NCLEX-PN) for state licensure.
- Felony convictions and misdemeanor convictions involving abuse or neglect of vulnerable populations will prohibit admission to clinical agencies which is a requirement of the nursing program.
- There are abilities (with or without accommodation) that a student in this program must have. A list of these abilities can be obtained from the health careers advisor. Based on history and physical examination findings, and these required abilities, a recommendation from a health care provider is required prior to beginning the program.
- Professional provider CPR certification must be obtained no earlier than three months prior to the start of the first clinical semester.
- The above information is applicable for students entering the nursing program in the 2008/2009 school year. Students entering the program in future years will be subject to the requirements outlined in the applicable catalog.
- A minimum grade of “C+” is required in all nursing program courses.

FOR ADVISING IN THE ABOVE PROGRAM PLEASE CALL ANNE ESSMAKER (989) 275-5000, EXT 372

ASSOCIATE DEGREE IN NURSING – LEVEL II

Minimum Credits: 69

Associate in Applied Science (DADN1)

Contact Hours: 69-78 (Beyond Level I Program)

Introduction: The Associate in Applied Science in Nursing program is designed to prepare students for entry-level positions as registered nurses and to provide continued learning and career mobility in nursing for licensed practical nurses. The Associate in Applied Science in Nursing Program is the Level I (practical nursing) plus the Level II program. Graduates of Level I must have earned a 3.0 or higher G.P.A. in prerequisite and Level I course work to be considered for admission into the Level II program. Students can attend school and complete the Level II program on a full- or part-time basis; however, once the program has begun, it must be completed within two years. Following successful completion of Level II, graduates are eligible to take the licensure exam to practice as a Registered Nurse (RN). Each class of nursing students is considered a cohort (group) and courses/schedules are assigned. Students must consult with the health careers advisor before making any schedule changes or changing from full-time to part-time. Graduates of Level II program are qualified to enter the many B.S.N. completion programs available.

Admission Requirements Associate Degree Nursing - Level II: Applicants must be granted regular admission to Kirtland and meet the following requirements to be considered for admission to the Associate Degree Nursing program:

- Submit official transcripts demonstrating successful completion of an approved practical nursing program within the last three years. The applicant who graduated more than three years ago must demonstrate 12 months of clinical experience in an acute or skilled care setting within the last three years or successfully complete the Foundations of Nursing (NUR-10502) and/or satisfactorily complete Nursing Skills Lab (NUR-106--) and/or Nursing Seminar (NUR-255--) within the last academic year.
- Computer skills are essential to program success (internet, email, word processing).
- Students requesting admission to the program must submit a Request for Admission to Nursing form, available in Health Careers and Student Services, and turn it into the Health Careers office between January 1 and April 1 of the calendar year in which the student is requesting admission to the nursing program. Acceptance letters will be mailed by the first week of June.
- Successfully complete all prerequisite courses with a grade of C or better except where noted.

Note: If applicants exceed the number of available seats in the program, priority will be given to students with required prerequisites and general education courses completed, then by date of KCC application where nursing is declared to be the program of study or by the date the program of study was changed to nursing.

Prerequisites: Students must successfully complete the following courses before being admitted to the level II nursing program.

Course	Title	Cr
Successful completion (GPA 3.0 or higher) of Level I or other Practical Nursing program with Experience		20*
BIO-11500	Anatomy & Physiology I (B or better)	4
BIO-11600	Anatomy & Physiology II (B or better)	4
BIO-21500	Pathophysiology (C + or better)	4
ENG-10403	English Composition II	3

Course	Title	Cr
ALH-20201	Standard First Aid OR Professional Provider CPR taken within 3 months of program	0-1
MTH-12000	Intermediate Algebra OR competency	0-4
POL-10100	Intro to American Government	3
PSY-10100	Intro to Psychology	3
SPE-xxxxx	Any Speech course	3
	Any Humanities Elective	2-4

*Students with current LPN licenses may be granted 20 credits toward this program upon presentation of their license.

Course	Title	Cr
Semester I – Fall		
NUR-22001	Nursing Assessment	3
NUR-23200	Family Centered Pediatrics	2
NUR-24201	Community Mental Health Nursing	2
NUR-24302	Community Mental Health Clinical	1.5
NUR-24600	Nursing Care of Women & Families	2
NUR-24900	Pediatric/Women's Health Clinical	1.5

Course	Title	Cr
Semester II – Winter		
NUR-21400 or NUR-10900 & NUR-20900	Nursing Pharmacology (2) OR Pharmacology I (from Level I) AND Pharmacology II (from Level I)	0-2
NUR-22201	Critical Thinking in Adult Care	5
NUR-22300	Adult Nursing Clinical	5
NUR-25201	Professional Practice	2

PART-TIME OPTION: Students also have the option of completing this program on a part-time basis in three semesters. Information about the semester sequence for part-time students is available from the health careers advisor. Program work must be completed within two years.

Notes:

- Conviction for some criminal offenses may render a candidate ineligible for writing the examination (NCLEX-RN) for state licensure.
- Felony convictions and misdemeanor convictions involving abuse or neglect of vulnerable populations will prohibit admission to clinical agencies which is a requirement of the nursing program.
- There are abilities (with or without accommodation) that a student in this program must have. A list of these abilities can be obtained from the health careers advisor. Based on history and physical examination findings, and these required abilities, a recommendation from a health care provider is required prior to beginning the program.
- Professional provider CPR certification must be obtained no earlier than three months prior to the start of the first clinical semester.
- A minimum grade of "C+" is required in all nursing program courses.

FOR ADVISING IN THE ABOVE PROGRAM PLEASE CALL ANNE ESSMAKER (989) 275-5000, EXT 372

RN FROM LPN/LVN

Associate in Applied Science (DADN2)

Minimum Credits: 75**Contact Hours: 54-68** (*beyond LPN credential*)**ONLINE PROGRAM****Michigan Community College Virtual Learning Collaborative**

This program was developed by colleges participating in the Michigan Community College Virtual Learning Collaborative (MCCVLC). Some of the courses are available only through online instruction.

Program Website: <http://vcampus.mccvlc.org/>

Introduction: This program will prepare an experienced LPN for RN licensure. Graduates of this program are qualified to enter the many B.S.N. completion programs available.

Admission Requirements

- Students must apply for regular admission to the college. Students must also apply for program admission online by May 1. An official college transcript must be submitted by that time that shows successful completion (grade C or better unless otherwise noted) of all required courses in order to be considered. Candidates must also have a license to practice as an LPN/LVN in good standing and one year of full-time experience (or equivalent) to be considered for admission. A detailed resume of LPN experience including supervisor's name and phone number must be submitted online with the program application.
- The program will only accept students to begin each fall semester. Candidates who have completed prerequisites will be ranked in order of date of program application. If seats remain unfilled, candidates may be provisionally admitted if working on prerequisites that can be completed prior to the beginning of the program.
- Students will be notified of their admission status by e-mail by June 1. Students must maintain an active personal e-mail account to ensure timely communication between students, faculty, and staff.

Prerequisites: Students must successfully complete the following courses before being admitted to the program.

Course	Title	Cr
	Successful completion of LPN/LVN program with experience	20*
	Successfully complete an online college course	0
BIO-11500	Anatomy & Physiology I (<i>B or better</i>)	4
BIO-11600	Anatomy & Physiology II (<i>B or better</i>)	4
CIS-10500	Intro to Computers OR Competency	0-3
ENG-10303	English Composition I w/Computers	3
ENG-10403	English Composition II w/Computers	3

Course	Title	Cr
MTH-12000	Intermediate Algebra OR demonstrated Competency	0-4
NUR 21400 or NURS 180W or NUR-10900 & NUR-20900	Nursing Pharmacology OR Pharmacology (KVCC) OR Pharmacology I (<i>from Level I</i>) AND Pharmacology II (<i>from Level I</i>)	0-3
POL-10100	Intro to American Government	3
PSY-10100	Introduction to Psychology	3
SPE-xxxxx	Any Speech	3
	Any Humanities Elective	2-4

Program Courses

Course	Title	Cr
	Semester I	
NUR-22001	Nursing Assessment	3
NUR-26001	Nursing Care of Adults	8

Course	Title	Cr
	Semester II	
NUR-27200	Nursing Care/Spec Populations-OB	2
NUR-27400	Nursing Care/Spec Populations-Peds	2
NUR-27600	Nursing Care/Spec Pops-Mental	4
NUR-29000	Nursing Leadership	3
	Semester III	
NUR-28000	Clinical Application of Nursing Care	8

Notes:

- Conviction for some criminal offenses may render a candidate ineligible for writing the examination (NCLEX-RN) for state licensure.
- There are abilities (with or without accommodation) that a student in this program must have. A list of these abilities can be obtained from the health careers advisor. Based on history and physical examination findings, and these required abilities, a recommendation from a health care provider is required prior to beginning the program.
- Professional provider CPR certification must be obtained no earlier than three months prior to the start of the first semester.
- Clinical agencies require a criminal background check before students are permitted to be placed for clinical experience. Felonies and some misdemeanors will restrict students from successfully completing required courses.

FOR ADVISING IN THE ABOVE PROGRAM PLEASE CONTACT ANNE ESSMAKER

essmakea@kirtland.edu

KIRTLAND HONORS PROGRAM

H O N O R S

Introduction

The Kirtland Honors Program is designed to meet the needs of students of high academic standing who are seeking additional challenges and rewards in both general education and occupational programs. Honors students may earn honors credits in Kirtland "honors option" courses and in individually designed honors and service learning projects. Students who complete 12 honors credits may be awarded an honors degree, with transcript recognition for all completed honors courses, and, upon completing the honors degree program, an honors degree.

A minimum of 12 credits in honors courses is required to earn an Honors associate degree. An additional three credits in honors courses is required for each subsequent honors degree.

Honors degrees may be earned in all of the following degree areas:

Honors Associate in Arts

Honors Associate in Applied Science

Honors Associate in Business Administration

Honors Associate in Fine Arts

Honors Associate in Science

Students interested in earning an honors degree in these or an area not mentioned above should contact the Honors Secretary at 989-275-5000, ext 359.

Honors Degree Requirements

Students admitted to the Kirtland Honors Program who complete the following requirements will be awarded an honors degree:

- The student must complete at least one 3-credit course designated as an Honors Colloquium (HON-25000).
- In addition to one Honors colloquium, the student must complete at least nine additional honors credit hours. These hours may be earned in the following ways:
 - in classes designated as honors sections (indicated by a 9 as the fourth and/or fifth character in the course number)
 - Service Learning
 - in Honors Projects (HON 225; up to three credits) undertaken in conjunction with non-honors course
- The student must have a cumulative Kirtland grade point average of at least 3.5.
- The required 12 honors credit hours must be earned at Kirtland.
- The student must complete all other requirements established for his or her degree at Kirtland.

Every effort will be made to ensure that honors students can complete the requirements for an honors degree within two academic years. However, students must be made aware that scheduling difficulties may prevent their completion of the requirements within two years.

The honors degree will be noted on the student's degree certificate; honors courses will be noted on the student's transcript. At the graduation ceremony, academic regalia will include some feature distinguishing an honors degree recipient.

For more information, please contact the Honors Program Department.

Terry Geary, Honors Secretary

Kathy Marsh, Dean of Students

989-275-5000, extension 359

989-275-5000, extension 245

Please check the program location for the following programs. Some are available on the Central Campus, and others are available on the M-TEC Campus only.

Certificates

- Industrial Maintenance (M-TEC Campus)
- Industrial Processes Technician (Central and M-TEC)
- Outdoor Power Engines (M-TEC Campus)
- Welding & Fabricating (Central and M-TEC)

Associate in Applied Science

- Engineering & Design Technologies (Central Campus)
- Industrial Maintenance (M-TEC Campus)
- Outdoor Power Engines (M-TEC Campus)
- Welding & Fabricating (Central and M-TEC)

Partnership Programs

Information on these partnerships can be found on pages 155-157.

- **Bachelor of Business Administration:**
Applied Business—Davenport University
- **Bachelor of Science**
Manufacturing Engineering Technology—Ferris State University
Product Design Engineering Technology—Ferris State University
Welding Engineering Technology—Ferris State University

Foundation

Kirtland Community College recognizes the importance of students possessing basic academic skills in English, reading, and mathematics in order to successfully complete college-level courses. Therefore, all entry-level students are required to demonstrate their proficiency in basic academic skills. The student's advisor will indicate which of the following courses need to be taken based on ACT scores or COMPASS placement testing results. It is highly recommended that students take these courses during the first semester in order to prepare for the road ahead, as well as possibly satisfying prerequisites needed for more advanced courses. Specific courses needed may be tracked below. *Students must plan additional time to complete their program requirements if placement results require them to begin with DEV courses.*

- | | |
|--|---|
| ☐ ENG-10000 Writing Lab (if required) | ☐ Mathematics: _____ |
| ☐ English: _____ | ☐ Reading: _____ |

For more information, please contact the Industrial Technologies Department.

Jason Prout (Central Campus)

989-275-5000, ext. 318/ proutj@kirtland.edu

Kerry Harwood (M-TEC Campus)

989-705-3695/ harwoodk@kirtland.edu

Industrial Technology Course Groupings and Locations

(Please note that all courses are taught on both campuses unless otherwise noted.)

Metal Machining Level I (MPT-10272--MPT10288, 4.18 credit hours)

Metal Machining Level 2 (MPT-10289—MPT-10299, MPT-10302—MPT-10306, MPT-10364, MPT-10408—MPT10409, 8.72 credit hours)

Metal Machining Level 3 (MPT-20366—MPT20368, 1.29 credits hours) – M-TEC campus only

Metrology (MPT-10308—MPT-10316, 1.83 credit hours) - M-TEC campus only

Metallurgy (MPT-20319—MPT-20330, 2.22 credit hours)

Machinist Handbook (MPT-20331—MPT-20340, 2.9 credit hours) M-TEC campus only

Geometric Dimensioning and Tolerancing (MPT-10307, .33 credit hours) – M-TEC campus only

Statistical Process Control (MPT-20374—MPT20385, 3.96 credit hours) – M-TEC campus only

MPT-10317, MPT-10318, MPT-10364, MPT-10408, MPT-10409, MPT-20366-20370 – M-TEC campus only

Advanced Metal Machining (MPT-20386—MPT-20398) – M-TEC campus only

Outdoor Power Engines (OPE-10001, OPE-11032, OPE-14000, OPE-20003, OPE-20100, OPE-10310, OPE-10510) – M-TEC campus only

Welding Level I (WLD-10120--WLD-10133, 4 credit hours)

Welding Level 2 (WLD-10240-10254, 4 credit hours)

Welding Level 3 (WLD-10370-10377, 4 credit hours)

Welding Level 4 (WLD-20450-20457, 4 credit hours)

Welding Level 5 (WLD-20510-20514, 4 credit hours)

Welding Level 6 (WLD-20606, 4 credit hours)

Welding Technical Electives – WLD-20701-20704

EDT 11000 & EDT 13000 – offered on both campuses

EDT14XXX – Architectural Drafting I, II, III offered on a variable basis only.

All other EDT courses are offered on central campus only.

INDUSTRIAL MAINTENANCE / M-TEC Campus**Minimum Credits: 30.30**

Certificate of Completion (CIND0)

Contact Hours: 47

After completing certificate requirements, students may continue in Associate in Applied Science: Industrial Maintenance.

Prerequisites: WorkKeys[®] is used to assess the core competency levels of reading, mathematics, locating information, and writing. Students are required to take WorkKeys[®] assessments as they proceed to completion of requirements for a certificate and/or degree.

Course	Title
	Industrial Maintenance
COR-10001	Basic Safety
COR-10002	Introduction to Construction Math
COR-10003	Introduction to Hand Tools
COR-10004	Introduction to Power Tools
COR-10005	Introduction to Blueprints
COR-10006	Basic Rigging
	Industrial Maintenance Level I
IND-10202	Electrical Safety
IND-10203	Hand Bending
IND-10204	Fasteners & Anchors
IND-10205	Electrical Theory One
IND-10207	Electrical Test Equipment
IND-10208	Introduction to NEC
IND-10209	Conductors
IND-10210	Introduction to Electrical Blueprints
IND-10211	Oxyfuel Cutting
	Industrial Maintenance Level II
IND-10212	Wiring: Commercial & Industrial
IND-10213	Alternating Current
IND-10214	Motors: Theory & Application
IND-10215	Grounding
IND-10216	Boxes & Fittings
IND-10218	Conductor Terminations & Splices
IND-10220	Circuit Breakers & Fuses
IND-10221	Contactors & Relays
IND-10222	Lubrication
IND-10223	Introduction to Bearings
IND-10224	Copper & Plastic Piping Practices
IND-10225	Ferrous Metal Piping Practices
IND-10226	Piping Systems
IND-10227	SMAW Equipment & Setup

Course	Title
	Industrial Maintenance Level III
IND-20228	Overcurrent Protection
IND-20230	Motor Controls
IND-20231	Motor Maintenance, Part One
IND-20233	Installing Couplings
IND-20234	Installing Mechanical Seals
IND-20235	Installing Belt & Chain Drives
IND-20236	Installing Bearings
IND-20237	Gaskets & Packing
IND-20238	Installing Seals
IND-20239	Pumps
IND-20240	Basic Hydraulic Systems
IND-20241	Basic Pneumatic Systems
	Industrial Maintenance Level IV
IND-20245	Advanced Controls
IND-20246	Commercial & Industrial Refrigeration
IND-20249	Conventional Alignment
IND-20252	Steam Traps
IND-20253	Steam Systems
IND-20254	Programmable Logic Controllers
	Industrial Maintenance Level V
IND-20258	Preventive & Predictive Maintenance
IND-20259	Performing Reverse Alignment
IND-20261	Troubleshooting/Repairing Pneumatic Equipment
IND-20262	Troubleshooting/Repairing Pumps
IND-20263	Troubleshooting/Repairing Hydraulic Equipment
IND-20264	Troubleshooting/Repairing Gearboxes
IND-20265	Programmable Logic Controllers
IND-20267	Flow, Pressure, Level, & Temperature
IND-20269	Precision Measuring Tools
CAP-10000	Core Capstone

INDUSTRIAL MAINTENANCE / M-TEC Campus**Minimum Credits: 62.3**

Associate in Applied Science (DIND0)

Contact Hours: 79-88

After completing the certificate, students may continue in Associate in Applied Science: Industrial Maintenance, below:

Course	Title	Cr
EDT-11000	Detailing with AutoCAD	3

Course	Title	Cr
EDT-14000	Architectural Drawing/CAD	4
OR EDT-13000	OR Fundamentals of MasterCAM	3

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	9-10	•ENG-10000 – Writing Lab, if required (0-1) •ENG-10303 – English Composition I w/Computers (3) •ENG-10403 – English Composition II w/Computers (3) - OR ENG-10602 – Technical Writing w/Computers (3) •SPE-10500 – Fundamentals of Speech - OR SPE-11400 – Intro to Interpersonal & Public Communication (3)
Humanities/Social Science	8-11	•POL-10100 – Introduction to American Government (3) •Social Science elective (3-4) •Humanities elective (2-4)
Math/Natural Science	6-9	•MTH-12000--Intermediate Algebra or higher excluding MTH-20500 & MTH-20600 (3-4) • Any science course with a lab (3-5)

ENGINEERING and DESIGN TECHNOLOGIES

Created in response to industry needs, Kirtland's **Engineering and Design Technologies** program offers a way for you to gain expertise in three formerly separate technologies—**computer-aided drafting and design, welding, and machine tool technology**. You may choose to earn a certificate in Industrial Processes Technology, or continue on for an Associate in Applied Science degree in Engineering and Design Technologies or in Technology Management. The end result is that you will become an employee who will be in high demand in today's competitive job market.

Technological advancement is considered the greatest force in the exciting world of engineering and design technologies and should create the need for well-trained, highly skilled workers. Job opportunities should be excellent for people entering the field, provided they have the diversity of skills demanded by today's employers, skills you will receive at Kirtland.

INDUSTRIAL PROCESSES TECHNICIAN / Central & M-TEC Campus Certificate of Completion (CIND1)	Minimum Credits: 30 Contact Hours: 40-47
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Course	Title	Cr
CAP-10000	Core Capstone (MTEC) Or advisor-approved elective	1
EDT-10000	Engineering Graphics or prior experience	0-3
EDT-11000	Detailing with AutoCAD	3

Course	Title	Cr
EDT-15000 or MPT-20374-20385	Quality Assurance Methods OR SPC Modules	3
AUT-16401 or OPE-14000 or ELT modules	Basic Electricity (3) OR Small Engine Electricity (3) OR ELT-10047, 10048, 10049, 10056, 10058, 20084 & 20089 (3.1)	3-3.1

and the following courses:

Manufacturing Processes Technology (4.18 credits)
MPT-10272, 10273, 10274, 10275, 10276, 10277, 10278, 10279, 10280, 10281, 10282, 10283, 10284, 10285, 10286, 10287 and 10288

Welding (4.00 credits)
WLD-10120, 10121, 10122, 10123, 10124, 10125, 10126, 10127, 10128, 10129, 10130, 10131, 10132, and 10133

and electives from the following lists for a total of 30 program credits:

Engineering Design Technology	Manufacturing Processes Technology	Math	Welding
EDT-xxxxx EDT electives	MPT-xxxxx MPT electives	MTH-13000 or higher, excluding MTH-20500 and MTH-20600	WLD-xxxxx Welding electives

ENGINEERING and DESIGN TECHNOLOGIES / Central & M-TEC Campus Associate in Applied Science (DEDT1)	Minimum Credits: 60 Contact Hours: 70-88
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Industrial Process Technician Certificate Completed—up to 30 credits will apply toward the Associate Degree. (Note: MTH elective credits cannot be used to satisfy elective requirements in the degree.)

Subject Area	Credit	Courses (Credit hours are listed after each course.)
Communications	9-10	• ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3) • ENG-10403 – English Composition II w/Computers (3) • SPE-10500 – Fundamentals of Speech (3) OR SPE-11400 -- Intro to Interpersonal & Public Communication (3)
Humanities/Social Science	8-11	• POL-10100 – Introduction to American Government (3) • Humanities Elective (2-4) • Social Science Elective (3-4)
Math/Natural Science	8-9	• MTH-14000 – Trigonometry or higher excluding MTH-20500 & 20600 (3-4) • PHY-20101 and PHY-20102 -- General Physics I w/lab (4/1)

and non-duplicated electives from the following lists for a total of 60 program credits:

Engineering Design Technology	Manufacturing Processes Technology	Welding
EDT-xxxxx EDT electives	MPT-xxxxx MPT electives	WLD-xxxxx Welding electives

OUTDOOR POWER ENGINES / M-TEC Campus

Certificate of Completion (COPD0)

Minimum Credits: 30**Contact Hours: 39-41****Introduction**

The Outdoor Power Engines program prepares students for employment as repair technicians for motorcycles, watercraft, snowmobiles, ATVs, and other two and four cycle engines. The program provides competency-based learning experiences including theory and hands-on labs as well as internship opportunities. Students concentrate on the overall functions of the engines and diagnose or troubleshoot issues for repair. Students and graduate of this program have extensive opportunities for employment or transfer for further study with the nationally accredited and recognized educational leader in the field--Universal Technical Institute (UTI). After completing the Certificate: Outdoor Power Engines requirements, students may continue in Associate in Applied Science: Outdoor Power Engines.

Prerequisites: WorkKeys[®] is used to assess the core competency levels of reading, mathematics, locating information, and writing. Students are required to take WorkKeys[®] assessments as they proceed to completion of requirements for a certificate and/or degree.

Course	Title	Cr
CAP-10000	Core Capstone	1
CAP-20003	Internship/Service Learning	3
OPE-10001	Two & Four Cycle Engines Lvl 1	3
OPE-11032	Two & Four Cycle Engines Lvl 2	3

Course	Title	Cr
OPE-14000 or AUT-16401	Small Engine Electricity OR Basic Electricity	3
OPE-20100	Outdoor Power Engines Capstone	3
OPE-20310 or OPE-20510	Power Sports Equipment I OR Watercraft I	3

and the following courses:

Manufacturing Processes Technology (4.18 credits)	Welding (4.00 credits)
MPT-10272, 10273, 10274, 10275, 10276, 10277, 10278, 10279, 10280, 10281, 10282, 10283, 10284, 10285, 10286, 10287 and 10288	WLD-10120, 10121, 10122, 10123, 10124, 10125, 10126, 10127, 10128, 10129, 10130, 10131, 10132, and 10133

and electives from the following lists for a total of 30 program credits:

Engineering Design Technology	Manufacturing Processes Technology	Welding
EDT-XXX EDT electives	MPT-XXX MPT electives	WLD-XXX Welding electives

OUTDOOR POWER ENGINES / M-TEC Campus

Associate in Applied Science (DODP0)

Minimum Credits: 60**Contact Hours: 68-80**

After completing the Certificate: Outdoor Power Engines requirements, students may continue in Associate in Applied Science: Outdoor Power Engines, as listed below.

Course	Title	Cr
EDT-11000	Detailing with AutoCAD	3
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I w/Cmpters	3
ENG-10403 or ENG-10602	English Composition II w/Cmpters OR Technical Writing w/Cmpters	3
MTH-12000	Intermediate Algebra or higher	3-4

Course	Title	Cr
POL-10100	Intro to American Government	3
	Social Science elective	3-4
	Humanities elective	2-4
SPE-10500 or SPE-11400	Fundamental of Speech OR Intr Interpersonal/ Public Comm	3
	Any science course with a lab	3-5
	Any technical elective (if needed)	0-1

WELDING & FABRICATING / Central & M-TEC Campus

Certificate of Completion

Minimum Credits: 31

Contact Hours: 45-46

Introduction

Kirtland's program in Welding & Fabricating is designed to provide instruction in the development of techniques and understanding of quality weldments. The program includes practice in shielded metal arc welding, oxy-acetylene welding and cutting, gas tungsten arc welding, flux cored arc welding, and gas metal arc welding processes. Students will have an understanding of the metallurgical aspects of the weld structure, welding equipment construction, welding codes, planning and estimating and applying current industrial techniques. This program leads to an Associate in Applied Science degree which has a minimum of 62 credit hours. Upon successful completion, students may be eligible to transfer for a bachelor's degree. Welding students should take into consideration that the program must be customized for transfer in order to fulfill the requirements of a four-year institution.

Course	Title	Cr
CAP-10000	Core Capstone (or minimum competency)	1
EDT-11000	Detailing with AutoCAD	3
ELT modules or AUT-16401	ELT-10047, 10048, 10049, 10053, 10056, 10058, 20084, and 20089 OR Basic Electricity	(3.4) 3
MPT-10272-10288	Metal Machining Level 1	4.18
MPT-20319-20330	Metallurgy	2.22

Course	Title	Cr
WLD 10120-10133	Welding & Fabricating Level 1	4
WLD-10240-10254	Welding & Fabricating Level 2	4
WLD-10370-10377	Welding & Fabricating Level 3	4
WLD-20450-20457	Welding & Fabricating Level 4	4
	Technical electives	1.2

And electives from the following lists for a total of 31 program credits:

Engineering Design Technology	Manufacturing Processes Technology	Welding
EDT-100xx EDT Electives	MPT-xxxxx MPT Electives	WLD-xxxxx Welding electives

WELDING & FABRICATING TECHNOLOGY/Central & M-TEC Campus

Associate in Applied Science

Minimum Credits: 62

Contact Hours: 83-91

After completing the Certificate: Welding & Fabricating requirements, students may continue for the Associate in Applied Science: Welding & Fabricating Technology, as listed below.

Course	Title	Cr
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I w/Cmptrs	3
ENG-10403 or ENG-10602	English Composition II w/Cmptrs OR Technical Writing w/Cmptrs	3
MTH-12000	Intermediate Algebra or higher	3-4
POL-10100	Intro to American Government	3
SPE-10500 or SPE-11400	Fundamentals of Speech OR Intro to Interpersonal and Public Communication	3

Course	Title	Cr
	Humanities elective	2-4
	Any science course with a lab	3-5
	Social Science elective	3-4
	Technical elective, if needed	0-1
WLD-20510-20514	Welding & Fabricating Level 5	4
WLD-20606	Welding & Fabricating Level 6	4

Certificates

- Medical Billing and Coding
- Medical Clerk
- Medical Transcription
- Office Assistant
- Word Processing Specialist

Associate in Applied Science

- Administrative Assistant
- Advanced Word Processing Specialist
- Legal Secretary
- Medical Secretary
- Medical Transcription

Partnership Programs

Information on these partnerships can be found on pages 158-159.

- **Bachelor of Business Administration**
Applied Business—Davenport University
Health Services Administration--Davenport University
- **Bachelor of Science**
Healthcare Management—Franklin University
Medical Case Management—Davenport University

Foundation

Kirtland Community College recognizes the importance of students possessing basic academic skills in English, reading, and mathematics in order to successfully complete college-level courses. Therefore, all entry-level students are required to demonstrate their proficiency in basic academic skills. In the certificate programs there are no English, reading, or mathematic requirements, however, these courses are the foundation for success in all programs. The student's advisor will indicate which of the following courses need to be taken based on ACT scores or COMPASS placement testing results. It is highly recommended that students take these courses during the first semester in order to prepare for the road ahead, as well as possibly satisfying prerequisites needed for more advanced courses. Specific courses needed may be tracked below. *Students must plan additional time to complete their program requirements if placement results require them to begin with DEV courses.*

- | | |
|--|---|
| ☐ ENG-10000 Writing Lab (if required) | ☐ Mathematics: _____ |
| ☐ English: _____ | ☐ Reading: _____ |

For more information, please contact the Office Information Systems Department.

Lisa Lashley	989-275-5000, extension 345
FLEX Lab	989-275-5000, extension 213

MEDICAL BILLING AND CODING

Certificate of Completion (CMBC0)

Minimum Credits: 35**Contact Hours: 35-37****Introduction**

The Medical Billing and Coding program provides the career education necessary to be proficient in completing insurance claims. The student learns billing and collection techniques. The student works to become proficient in assigned ICD-9-CM and CPT codes.

A program GPA of 2.3 is required for graduation. Additionally, all OIS courses require a minimum grade of C+ (2.3). Courses consisting of modules (A, B, C) require an average grade of C+, with a minimum grade in any single module of at least a C (2.0).

Course	Title	Cr	Course	Title	Cr
Semester I			Semester II		
ALH-10101	Medical Terminology	2	ALH-10801	Pathology	3
ALH-11201	Medical Ethics & Law	1	OIS-10401/02/03 or OIS-18201/02/03	Keyboarding I – A/B/C OR Word Processing I – A/B/C	3
BIO-10700	Essentials of Anatomy & Physiology	4	OIS-10600	Intro to Health Information Systems	3
CIS-10500	Introduction to Computers	3	OIS-11300	Medical Coding I	3
ENG-10000	Writing Lab, if required	0-1	OIS-11500	Medical Insurance Billing	3
ENG-10303	English Composition I w/Cmpters	3			
	Course	Title		Cr	
	Semester III				
	OIS-21300	Medical Coding II		3	
	OIS-24109	Internship – Medical Billing/Coding		4	

LEGAL SECRETARY

Associate in Applied Science (DLES1)

Minimum Credits: 64**Contact Hours: 67-75****Introduction**

Kirtland's Legal Secretary program is specifically designed to educate students in the skills necessary to secure employment by attorneys, judges, corporate legal departments, or government offices where knowledge of legal terminology and procedures is required. All candidates for an Associate in Applied Science: Legal Secretary degree must complete the courses below. Students may substitute advanced courses for beginning courses with prior advisor approval.

A program GPA of 2.3 is required for graduation. Additionally, all OIS courses require a minimum grade of C+ (2.3). Courses consisting of modules (A, B, C) require an average grade of C+, with a minimum grade in any single module of at least a C (2.0).

Course	Title	Cr	Course	Title	Cr
Semester I (Fall)			Semester III (Fall)		
ALH-10101	Medical Terminology	2	BUS-21500	Legal Environment of Business	3
CIS-10500	Introduction to Computers	3	MTH-12000	Intermediate Algebra or higher	3-4
ENG-10000	Writing lab, if required	0-1	OIS-17000	Legal Terminology/Transcription	3
ENG-10303	English Composition I w/Computers	3	OIS-21500 or CIS-17001	Desktop Publishing for the Office OR Microsoft Office	3
OIS-18201/02/03	Word Processing I – A/B/C	3	xxx-xxxxx	Humanities Elective	2-4
OIS-20501/02/03	Records Management-A/B/C	3	Semester IV (Winter)		
Semester II (Winter)			OIS-10500	Business Correspondence	3
OIS-11201 or ACC-12500 or ACC-10600	Business Calculations Computer Accounting w/Quickbooks Fundamentals of Accounting	3-4	OIS-22500	Legal Office Procedures	3
OIS-11401/02/03	Keyboarding II – A/B/C	3	POL-10100	Intro to American Government	3
OIS-19001/02/03	Machine Transcription – A/B/C	3	xxx-xxxxx	Any Science course with a lab	3-5
OIS-22200	Word Processing II – Word	3	xxx-xxxxx	Any Social Science course	3-4
Semester V (Summer)			OIS-21400	Keyboarding III	3
SPE-10500 or SPE-11400	Fundamentals of Speech OR Intro to Interpersonal & Public Communication	3	OIS-24102	Internship – Legal Secretary	3

MEDICAL CLERK

Certificate of Completion (CMOA1)

Minimum Credits: 36
Contact Hours: 36-39

Introduction

The Medical Clerk program is designed to train students for employment as a medical office clerk. The program emphasizes development of proficiency in administrative medical office skills including preparation of correspondence, transcription of medical dictation, billing, insurance, receptionist duties, ethics and law, and medical office procedures. Students may transfer into the Associate in Applied Science: Medical Secretary program at any time during or after completion of the certificate program.

A program GPA of 2.3 is required for graduation. Additionally, all OIS courses require a minimum grade of C+ (2.3). Courses consisting of modules (A, B, C) require an average grade of C+, with a minimum grade in any single module of at least a C (2.0).

Course	Title	Cr
Semester I (Fall)		
ALH-10101	Medical Terminology	2
CIS-10500	Introduction to Computers	3
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I w/Computers	3
OIS-10600	Intro to Health Information Systems	3
OIS-18201/02/03	Word Processing I – A/B/C	3
or OIS-11401/02/03	OR Keyboarding II-A/B/C	

Course	Title	Cr
Semester II (Winter)		
ALH-11201	Medical Ethics & Law	1
OIS-10500	Business Correspondence	3
OIS-10701/02/03	Medical Office Transcription-A/B/C	3
OIS-20501/02/03	Records Management-A/B/C	3
OIS-11500	Medical Billing and Coding	3
OIS-21100	Medical Office Procedures	3

Course	Title	Cr
Semester III (Summer)		
OIS-11201 or ACC-10600 or ACC-12500	Business Calculations OR Fundamentals of Accounting OR Computer Accounting with QuickBooks	3-4
OIS-24108	Internship – Medical Clerk	3

MEDICAL SECRETARY

Associate in Applied Science (DMES1)

Minimum Credits: 67

Contact Hours: 66-73

Introduction

Medical Secretary is one of the specialized secretarial programs Kirtland offers. Graduates of this program are trained in a variety of skills that will enable them to work for physicians in either a private medical office or in various hospital settings such as medical records, the business office, or the emergency room. This program places emphasis on the development of proficiency in word processing and related computerized tasks, medical office procedures, insurance billing and coding, transcription of medical dictation for medical specialties, and administrative secretarial duties.

A program GPA of 2.3 is required for graduation. Additionally, all OIS courses require a minimum grade of C+ (2.3). Courses consisting of modules (A, B, C) require an average grade of C+, with a minimum grade in any single module of at least a C (2.0).

Course	Title	Cr
Semester I (Fall)		
ALH-10101	Medical Terminology	2
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I w/Computers	3
OIS-10600	Intro to Health Information Systems	3
OIS-10701/02/03	Medical Office Transcription-A/B/C	3
OIS-18201/02/03	Word Processing I- A/B/C	3
Semester II (Winter)		
BIO-10700	Essentials of Anatomy & Physiology	4
CIS-10500	Introduction to Computers	3
OIS-10800	Medical Transcription I	3
OIS-11401/02/03	Keyboarding II-A/B/C	3
OIS-20501/02/03	Records Management-A/B/C	3

Course	Title	Cr
Semester III (Fall)		
MTH-12000	Intermediate Algebra or higher	3-4
OIS-22200	Word Processing II-Word	3
POL-10100	Intro to American Government	3
SPE-10500 or SPE-11400	Fundamentals of Speech OR Intro to Interpersonal & Public Communication	3
xxx-xxxxx	Humanities Elective	2-4
Semester IV (Winter)		
ALH-11201	Medical Ethics & Law	1
OIS-11201 or ACC-10600 or ACC-12500	Business Calculations OR Fundamentals of Accounting OR Accounting with QuickBooks	3-4
OIS-11500	Medical Billing & Coding	3
OIS-21100	Medical Office Procedures	3
OIS-22100	Office Pharmacology	2
xxx-xxxxx	Any Social Science	3-4

Course	Title	Cr
Semester I (Summer)		
OIS-10500	Business Correspondence	3
OIS-24103	Internship – Medical Secretary	3

MEDICAL TRANSCRIPTION

Certificate of Completion (CMET0)

Minimum Credits: 31**Contact Hours: 32-34****Introduction**

This program provides the career training necessary to transcribe physicians' dictated reports for medical records used in medical offices, hospitals, insurance companies, courts, governmental agencies and other medical-related business. The student will acquire a background in general office skills as well as intensive training in transcribing actual medical dictation. Students may continue in this program by pursuing the Associate in Applied Science: Medical Transcription degree.

A program GPA of 2.3 is required for graduation. Additionally, all OIS courses require a minimum grade of C+ (2.3). Courses consisting of modules (A, B, C) require an average grade of C+, with a minimum grade in any single module of at least a C (2.0).

Course	Title	Cr
Semester I		
ALH-10101	Medical Terminology	2
ALH-11201	Medical Ethics & Law	1
ENG-10000	Writing Lab (if required)	0-1
ENG-10303	English Composition I w/Computers	3
OIS-10701/02/03	Medical Office Transcription-A/B/C	3
OIS-18201/02/03	Word Processing I – A/B/C	3

Course	Title	Cr
Semester II		
ALH-10801	Pathology	3
BIO-10700	Essentials of Anatomy & Physiology	
OIS-10800	Medical Transcription I	3
OIS-22100	Office Pharmacology	2

Course	Title	Cr
Semester II		
OIS-20601/02/03	Medical Transcription II – A/B/C	3
OIS-24106	Internship – Medical Transcription	3

MEDICAL TRANSCRIPTION

Associate in Applied Science (DMET0)

Minimum Credits: 63**Contact Hours: 64-70****Introduction**

This program provides the career training necessary to transcribe physicians' dictated reports for medical records used in medical offices, hospitals, insurance companies, courts, governmental agencies, and other medical-related businesses. The student will acquire a background in general office skills as well as intensive training in transcribing actual medical dictation.

A program GPA of 2.3 is required for graduation. Additionally, all OIS courses require a minimum grade of C+ (2.3). Courses consisting of modules (A, B, C) require an average grade of C+, with a minimum grade in any single module of at least a C (2.0).

Course	Title	Cr
Semester I (Fall)		
ALH-10101	Medical Terminology	2
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I w/Computers	3
OIS-10600	Intro to Health Information Systems	3
OIS-10701/02/03	Medical Office Transcription-A/B/C	3
OIS-18201/02/03	Word Processing I – A/B/C	3
Semester II (Winter)		
BIO-10700	Essen of Anatomy & Physiology	4
CIS-10500	Introduction to Computers	3
OIS-10800	Medical Transcription I	3
OIS-11401/02/03	Keyboarding II-A/B/C	3
OIS-20501/02/03	Records Management-A/B/C	3

Course	Title	Cr
Semester III (Fall)		
MTH-12000	Intermediate Algebra or higher	3-4
OIS-10500	Business Correspondence	3
OIS-20600	Medical Transcription II	3
POL-10100	Intro to American Government	3
SPE-10500 or SPE-11400	Fundamentals of Speech OR Intro to Interpersonal & Public Comm	3
Semester IV (Winter)		
ALH-10801	Pathology	3
ALH-11201	Medical Ethics & Law	1
OIS-20700	Medical Transcription III	3
OIS-22100	Office Pharmacology	2
xxx-xxxxx	Humanities elective	2-4
xxx-xxxxx	Social Science elective	3-4

Course	Title	Cr
Semester V (Summer)		
OIS-24106	Internship – Medical Transcription	3

OFFICE ASSISTANT

Certificate of Completion (COAS0)

Minimum Credits: 30
Contact Hours: 30-33

Introduction: Kirtland's Office Assistant program is designed to prepare the students with marketable skills needed for employment in office work situations where clerical and/or secretarial skills are required. With Advisor permission students may substitute more advanced courses for beginning courses listed below, depending on previous education in determining which courses satisfy the student's needs. All courses in this program may apply to the Associate in Applied Science: Administrative Assistant degree, Legal Secretary degree, Medical Secretary degree, and Advanced Word Processing degree.

A program GPA of 2.3 is required for graduation. Additionally, all OIS courses require a minimum grade of C+ (2.3). Courses consisting of modules (A, B, C) require an average grade of C+, with a minimum grade in any single module of at least a C (2.0).

Course	Title	Cr
Semester I (Fall)		
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I w/ Computers	3
OIS-10401/02/03 or OIS-11401/02/03	Keyboarding I – A/B/C OR Keyboarding II – A/B/C	3
OIS-11201 or ACC-10600 or ACC-12500	Business Calculations OR Fundamentals of Accounting OR Computer Accounting with QuickBooks	3-4
OIS-xxxxx	OIS Elective w/advisor approval	3
xxx-xxxxx	General Elective w/advisor approval	3

Course	Title	Cr
Semester II (Winter)		
CIS-10500	Introduction to Computers	3
OIS-10500	Business Correspondence	3
OIS-11401/02/03 or OIS-21400	Keyboarding II – A/B/C OR Keyboarding III	3
OIS-xxxxx	OIS elective with advisor approval	3
xxx-xxxxx	General elective with advisor approval	3

ADMINISTRATIVE ASSISTANT

Associate in Applied Science (DADA0)

Minimum Credits: 62

Contact Hours: 64-75

Introduction

The office careers program at Kirtland includes intensive training in basic and advanced secretarial and clerical courses stressing the use of current office procedures and practices assisted by modern equipment and facilities. A variety of courses are offered to meet the needs of beginning and advanced students. This program is designed to enable graduates to obtain positions of responsibility in a variety of office situations. Students may substitute advanced courses for beginning courses with prior advisor approval.

A program GPA of 2.3 is required for graduation. Additionally, all OIS courses require a minimum grade of C+ (2.3). Courses consisting of modules (A, B, C) require an average grade of C+, with a minimum grade in any single module of at least a C (2.0).

Course	Title	Cr
Semester I (Fall)		
BUS-10100	Introduction to Business	3
CIS-10500	Introduction to Computers	3
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I w/Computers	3
OIS-18201/02/03	Word Processing I – A/B/C	3
OIS-20501/02/03	Records Management-A/B/C	3
Semester II (Winter)		
xxx-xxxxx	Humanities Elective	2-4
MTH-12000	Intermediate Algebra or higher	3-4
OIS-11401/02/03	Keyboarding II - A/B/C	3
OIS-19001/02/03	Machine Transcription - A/B/C	3
OIS-22200	Word Processing II-Word	3

Course	Title	Cr
Semester III (Fall)		
OIS-10500	Business Correspondence	3
OIS-21400	Keyboarding III	3
OIS-21500	Desktop Publishing for the Office	3
SPE-10500 or SPE-11400	Fundamentals of Speech OR Intro to Interpersonal & Public Communication	3
xxx-xxxxx	Science course with lab	3-5
Semester IV (Winter)		
CIS-17001	Microsoft Office	3
OIS-11201 or ACC-10600 or ACC-12500	Business Calculations OR Fund of Accounting OR Computer Acct/QuickBooks	3-4
OIS-21000	Office Procedures	3
POL-10100	Intro to American Government	3
xxx-xxxxx	Social Science elective	3-4
Semester V (Summer)		
OIS-24101	Internship – Administrative Assistant	3

WORD PROCESSING SPECIALIST

Certificate of Completion (CWPS0)

Minimum Credits: 30**Contact Hours: 30-32****Introduction**

Kirtland's Word Processing Specialist program is designed to prepare students for employment in the automated office. Jobs are available in many businesses, industries, governmental agencies, and professional offices. Students may transfer into the Advanced Word Processing program at any time during or after the certificate program and receive an Associate in Applied Science degree.

A program GPA of 2.3 is required for graduation. Additionally, all OIS courses require a minimum grade of C+ (2.3). Courses consisting of modules (A, B, C) require an average grade of C+, with a minimum grade in any single module of at least a C (2.0).

Course	Title	Cr
Semester I (Fall)		
CIS-10500	Introduction to Computers	3
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I w/Computers	3
OIS-11401/02/03	Keyboarding II - A/B/C	3
OIS-18201/02/03	Word Processing I – A/B/C	3
OIS-20501/02/03	Records Management-A/B/C	3

Course	Title	Cr
Semester II (Winter)		
CIS-17001	Microsoft Office	3
OIS-10500	Business Correspondence	3
OIS-21400	Keyboarding III	3
OIS-21500	Desktop Publishing for the Office	3
OIS-22200	Word Processing II-Word	3

ADVANCED WORD PROCESSING SPECIALIST

Associate in Applied Science (DWPS0)

Minimum Credits: 60**Contact Hours: 61-70****Introduction**

This program is designed to prepare students for the changing office. Students enrolled in this program may obtain employment as advanced word processing specialists, as word processing supervisors, and as secretaries in various business, industrial, governmental, and professional firms.

A program GPA of 2.3 is required for graduation. Additionally, all OIS courses require a minimum grade of C+ (2.3). Courses consisting of modules (A, B, C) require an average grade of C+, with a minimum grade in any single module of at least a C (2.0).

Course	Title	Cr
Semester I (Fall)		
CIS-10500	Introduction to Computers	3
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I w/Cmptrs	3
OIS-11201 or ACC-10600 or ACC-12500	Business Calculations OR Fundamentals of Accounting OR Cmptr Acctg w/QuickBooks	3-4
OIS-18201/02/03	Word Processing I – A/B/C	3
SPE-10500 or SPE-11400	Fundamentals of Speech OR Intro Interspers/Public Comm	3
Semester II (Winter)		
MTH-12000	Intermediate Algebra or higher	3-4
OIS-11401/02/03	Keyboarding II - A/B/C	3
OIS-19001/02/03	Machine Transcription - A/B/C	3
OIS-20501/02/03	Records Management-A/B/C	3
OIS-22200	Word Processing II-Word	3

Course	Title	Cr
Semester III (Fall)		
CIS-17001	Microsoft Office	3
OIS-21500	Desktop Publishing for the Office	3
POL-10100	Intro to American Government	3
xxx-xxxxx	Humanities Elective	2-4
xxx-xxxxx	Science course with lab	3-5
Semester IV (Winter)		
OIS-10500	Business Correspondence	3
OIS-21000	Office Procedures	3
OIS-21400	Keyboarding III	3
OIS-24107	Internship – Advanced Word	3
xxx-xxxxx	Any Social Science	3-4
	Electives, if needed	0-1

Associate in Applied Science

- Technology Management

Partnership Programs

Information on this partnership can be found on page 160.

- **Bachelor of Business Administration**
Applied Business—Davenport University

Foundation

Kirtland Community College recognizes the importance of students possessing basic academic skills in English, reading, and mathematics in order to successfully complete college-level courses. Therefore, all entry-level students are required to demonstrate their proficiency in basic academic skills. In the certificate programs there are no English, reading, or mathematic requirements, however, these courses are the foundation for success in all programs. The student's advisor will indicate which of the following courses need to be taken based on ACT scores or COMPASS placement testing results. It is highly recommended that students take these courses during the first semester in order to prepare for the road ahead, as well as possibly satisfying prerequisites needed for more advanced courses. Specific courses needed may be tracked below. *Students must plan additional time to complete their program requirements if placement results require them to begin with DEV courses.*

- ☐ ENG-10000 Writing Lab (if required)
☐ English: _____

- ☐ Mathematics: _____
☐ Reading: _____

For more information, please contact the Technology Management advisor.
Don Dyer 989-275-5000, extension 231

TECHNOLOGY MANAGEMENT

Associate in Applied Science

Minimum Credits: 60

Contact Hours: 61-76

Introduction

The Technology Management degree is designed for students who want to apply their prior and current technical training and/or education toward the completion of an associate degree. This degree is an appealing choice for students who are former military, current military, or non-completers of one or more technical education programs.

General Education Requirements, 23-30 credits:

Course	Title	Cr
CIS-10500	Introduction to Computers	3
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I w/Cmptrs	3
ENG-10403 or ENG-10602	English Composition II w/Cmptrs OR Technical Writing w/Cmptrs	3
MTH-12000	Intermediate Algebra or higher	3-4

Course	Title	Cr
SPE-10500 or SPE-11400	Fundamentals of Speech OR Intro to Interpersonal & Public Communication	3
	Humanities elective	2-4
	Social Science elective	3-4
	Any Science elective with lab	3-5

Leadership/Management, 6 credits:

Military credit for Supervision, Management or Leadership and/or Kirtland credit from the following course options:

Course	Title	Cr
Select 2 courses (or 6 credits) from:		
BUS-10100	Introduction to Business (3)	6
BUS-21000	Principles of Management (3)	
BUS-24500	Personnel Management (3)	
	or Military Credit for Supervision, Management, or Leadership	

Technical Elective Courses, 15 credits:

College courses or military equivalent credit from the following list of career/technical programs must be taken to fulfill this requirement. Substitute courses may be taken with the approval of an advisor and academic dean.

Technical Electives: Accounting, Allied Health, Automotive Technology, Aviation, Business, Carpentry, Computer Aided Drafting, Computer Information Systems, Cosmetology, Criminal Justice, Electrical Technology, Engineering Drafting Technology, Heating/Ventilation/AC/Refrigeration, Industrial Maintenance, Machine Tool Technology, Manufacturing Processes Technology, Marketing, Massage Therapy, Nursing, Office Information Systems, Outdoor Power Equipment, Plumbing, Sonography, Welding or other Technical elective transferred to Kirtland as "TEC" or "ZZZ."

General Elective Courses, 15-16 credits:

Any 10000-level or higher course can be used. Up to three credits in Physical Education courses can be applied toward degree requirements.

Special Certificate

- General Studies

Certificate

- General Studies

Associate Degrees

- Arts
- Business Administration
- Computers—Computer Science
- Computers—Computer Information Systems
- Criminal Justice—Generalist
- Fine Arts—Creative Writing
- Fine Arts—Studio Arts
- Fine Arts—Theatre Arts
- Science—Life Science
- Science—Physical Science

Partnership Programs

Information on partnerships with other colleges can be found on pages 134-161.

FOUNDATION COURSES

Kirtland Community College recognizes the importance of students possessing basic academic skills in English, reading, and mathematics in order to successfully complete college-level courses. Therefore, all entry-level students are required to demonstrate their proficiency in basic academic skills. In the certificate programs there are no English, reading, or mathematic requirements, however, these courses are the foundation for success in all programs. The student’s advisor will indicate which of the following courses need to be taken based on ACT scores or COMPASS placement testing results. It is highly recommended that students take these courses during the first semester in order to prepare for the road ahead, as well as possibly satisfying prerequisites needed for more advanced courses. Specific courses needed may be tracked below. *Students must plan additional time to complete their program requirements if placement results require them to begin with DEV courses.*

- ☐ ENG-10000 Writing Lab (if required)
- ☐ Mathematics: _____
- ☐ English: _____
- ☐ Reading: _____

CERTIFICATES OF GENERAL STUDIES

Many students come first to Kirtland then transfer either to a four-year college/university, to another community college which offers different programs, or obtain specific coursework which does not involve receiving a credential from Kirtland. These two certificates provide an avenue for students to receive recognition for college-level coursework before continuing on toward their degree goal at another institution.

GENERAL STUDIES

Special Certificate (SGEN0)

Minimum Credits: 15

Contact Hours: 16-18

Course	Title	Cr
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I	3
	Choose at least 11 credits from at least 3 areas of 100 level or higher courses from: Business, Computer Information Systems, Humanities, Math, Science, or Social Sciences.	

GENERAL STUDIES

Certificate of Completion (CGEN0)

Minimum Credits: 30

Contact Hours: 31 or more

Course	Title	Cr
ENG-10000	Writing Lab, if required	0-1
ENG-10303	English Composition I w/Computers	3
ENG or SPE	Any English or Speech	3
MTH-12000	Intermediate Algebra or higher	4
	Humanities or Social Science	3
	Any science with lab	4
	Choose at least 12-13 credits of 100 level or higher courses from: Business, Computer Information Systems, Humanities or Social Sciences.	13 or more

ASSOCIATE IN ARTS (DLIB0)

Minimum Credits: 60
Contact Hours: 62-63

Introduction

The Associate in Arts degree program is designed for students who plan to eventually complete a bachelor's degree in the field of education, liberal arts, humanities, or social sciences. Listed below are some of the majors pursued by students following this program:

Art	Education *(Elementary, Secondary, & Special)	Journalism	Social Science
Anthropology	English	Music	Social Work
Archaeology	Geography	Political Science	Sociology
Communications	History	Pre-Law	Speech
Criminal Justice	Humanities	Psychology	Theatre

Students planning to transfer to a four-year college or university must consult with their advisor and carefully study the requirements of the four-year institution from which they intend to secure a bachelor's degree. Appropriate course substitutions may be made upon the recommendation of a student's advisor, and with approval of the appropriate dean or associate dean. Substitutions are only made in accordance with the specific requirements of the baccalaureate degree-granting institution to which the student intends to transfer.

Students who have previously attended other colleges or universities may apply earned transfer credit in subject areas (i.e., psychology elective, biology elective, etc.) where deemed appropriate. This degree satisfies the requirements of the MACRAO Transfer Agreement as defined in the handbook section of the college catalog.

*INTERESTED IN BECOMING A TEACHER?

Students interested in pursuing a Bachelor of Arts or Bachelor of Science in Education degree can usually follow an Associate in Arts or Associate in Science transfer degree offered at Kirtland. When planning pre-education course work for an Elementary, Secondary, or Special Education degree, students should meet with a Kirtland counselor or faculty advisor. Though some similarities exist in course requirements among the universities or colleges that prepare teachers, there are also differences that can complicate the advising process and the selection of appropriate courses for transfer to the student's university or college of choice. Therefore, it is very important that each student meet with a counselor or faculty advisor.

Course	Title	Cr
--- ---	Electives – Select any 100-level or higher courses. Three credits in Physical Education courses can be used.	8-13

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	• CIS-10500 – Introduction to Computers (3)* • ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3)* • ENG-10403 – English Composition II w/Computers (3)* • SPE-10500 – Fundamentals of Speech (3)* - OR SPE-11400 – Intro to Interpersonal & Public Communication (3)*
Humanities (Maximum of two courses per subject area)	11-13	• Select 2-3 credits from Art, Music, or Theater.* • Select 3-4 credits from Journalism, Languages, or Literature.* • History elective (3)* • Philosophy elective (3)*
Social Science	12-13	• ANT-10100 – Cultural Anthropology (3)* - OR SOC-10100 – Introduction to Sociology (3)* - OR PSY-10100 – Introduction to Psychology (3)* • GEO-10000 – World Geography (4)* - OR POL-20000 – International Relations (3)* - OR POL-20100 – Comparative Government* (3) • POL-10100 – Introduction to American Government (3)* • Select an additional course from ANT, ECO, GEO, POL, PSY, or SOC (3)
Math/Natural Science	9-14	• MTH-13000 – College Algebra* or higher (3-4) • Select two science courses with a lab from AST, BIO, CHE, GEL, or PHY (6-10)*

* Courses that meet General Education Core Competencies

ASSOCIATE IN BUSINESS ADMINISTRATION (DABA1)

Minimum Credits: 61
Contact Hours: 60-67

Introduction

The Associate in Business Administration degree is designed for students who plan to eventually complete a bachelor's degree in a business-related field. Listed below are some of the majors pursued by students following this program:

Accounting	Economics	General Business	Marketing	Public Administration
Advertising	Finance	Management	Personnel/Industrial Relations	

Students planning to transfer to a four-year college or university must consult with their advisor and carefully study the requirements of the four-year institution from which they intend to secure a bachelor's degree. Appropriate course substitutions may be made upon the recommendation of a student's advisor and with approval of the appropriate dean or associate dean. Substitutions are only made in accordance with the specific requirements of the baccalaureate degree-granting institution to which the student intends to transfer.

Students who have previously attended other colleges or universities may apply earned transfer credit in subject areas (i.e., psychology elective, biology elective, etc.) where deemed appropriate. This degree satisfies the requirements of the MACRAO Transfer Agreement as defined in the Handbook section of this catalog.

Course	Title	Cr	Course	Title	Cr
ACC-12100	Accounting Principles I	4	ACC-12200	Accounting Principles II	4

Select 4-11 credit hours from the following list:

ACC-12500	Computer Accounting/QuickBooks	4	BUS-24500	Personnel Management	3
BUS-10100	Introduction to Business	3	MKT-11000	Principles of Selling	3
BUS-201--	Internship in Business & Marketing	3-9	MKT-11500	Customer Relations	3
BUS-20200	Grant Writing	3	MKT-20000	Principles of Marketing	3
BUS-21000	Principles of Management	3	MKT-20100	Principles of Retailing	3
BUS-21100	E-Commerce Management	3	MKT-20200	Internet Marketing	3
BUS-21500	Legal Environment of Business	3	MKT-20400	Advertising	3
BUS-24000	Financial Management	3	MKT-21000	Market Research	3

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	• CIS-10500 – Introduction to Computers (3)* • ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3)* • ENG-10403 -- English Composition II w/Computers (3)* • SPE-10500 – Fundamentals of Speech (3)* - OR SPE-11400 – Intro to Interpersonal & Public Communication (3)*
Humanities	8-10	• Select 2-3 credits from Art, Music, or Theater.* • Select 3-4 credits from Journalism, Languages, or Literature.* • Any HIS (History) OR PHL (Philosophy) Elective (3)*
Social Science	12	• Any ANT (Anthropology) OR SOC (Sociology) OR PSY (Psychology) Elective (3)* • ECO-20100 – Principles of Economics (Macroeconomics) (3) • ECO-20200 – Principles of Economics (Microeconomics) (3) • POL-10100 – Introduction to American Government (3)*
Math & Natural Science	9-13	• MTH-13000 College Algebra* or higher (3-4) • MTH-20600 – Application in Statistics (3-4) • One science course with lab* (3-5)

ASSOCIATE IN COMPUTERS

Computer Science (DACP0)

Minimum Credits: 60

Contact Hours: 62-69

Introduction

Students interested in pursuing a career in the computer field should plan to eventually complete a bachelor's degree at a four-year school of their choice. Computer majors are found in two separate areas: Computer Information Systems and Computer Science.

Computer Science degrees are mathematically and engineering oriented. Positions of employment would include computer programmers, systems programmers, software engineers, systems engineers, database administrators, network administrators, systems administrators, or systems analysts. Degrees in this area include the following: Software Engineering, Computer Science, Computer Engineering or Computer Networking.

Students planning to transfer to a four-year college or university must consult with a Computer Information Systems (CIS) advisor and carefully study the requirements of the four-year institution from which they intend to secure a bachelor's degree. Appropriate course substitutions may be made upon the recommendation of a student's advisor and with the approval of the appropriate dean. Substitutions are only made in accordance with the specific requirements of the baccalaureate degree granting institution to which the student intends to transfer.

Students who have previously attended other colleges or universities may apply earned transfer credit in subject areas (i.e., psychology, elective, biology elective etc.) where deemed appropriate. This degree also satisfies the requirements of the MACRAO Transfer Agreement as defined in the handbook section of the college catalog.

Year 1:

Fall Semester	
Chemistry w/lab (See CIS advisor for recommended course)	4-5
CIS-10500 Introduction to Computers	3
ENG-10000 Writing Lab, if required	0-1
ENG-10303 English Composition I w/Computers	3
MTH-12000 Intermediate Algebra or higher (excluding MTH-205 & MTH-206)	4

Winter Semester	
ENG-10403 English Composition II w/Computers	3
MTH-13000 or higher or elective course if math sequence is complete (excluding MTH-20500 & MTH-20600)	3-4
MTH-14000 or higher or elective course if math sequence is complete (excluding MTH-20500 & MTH-20600)	3-4
POL-10100 Introduction to American Government	3
PSY-10100 or SOC-10100	3

Year 2:

Fall Semester	
CIS-27001 Programming I	3
GEO-10000, POL-20000, or POL-20100	3-4
Humanities Elective – ART, MUS, or THE	2-3
MTH-22002 or higher or elective course if math sequence is complete (excluding MTH-20500 & MTH-20600)	3-4
SPE-10500 Fundamentals of Speech OR SPE-11400 Interpersonal & Public Comm	3

Winter Semester	
BIO-10100 or BIO-20100, or BIO-20200 or BIO-21000, or BIO-21300 (See CIS advisor for recommended course)	3-4
CIS-27101 Programming II	4
CIS or MTH Elective (from list below)	2-4
HIS-10500, 10600, 20100, 20200, 20300, or 20400	3
Humanities Elective – Language or Literature (see CIS advisor for course list)	3-4

Electives:

CIS-11700 Visual Basic I	3
CIS-17001 Microsoft Office	3
CIS-22400 UNIX	2
CIS-23501 Database Design	3
CIS-26000 Intro to Computer Networking	3
MTH-22102 Calculus II	4

ASSOCIATE IN COMPUTERS

Information Systems (DACP1)

Minimum Credits: 60

Contact Hours: 65-70

Introduction

Students interested in pursuing a career in the computer field should plan to eventually complete a bachelor's degree at a four-year school of their choice. Computer majors are found in two separate areas: Computer Information Systems and Computer Science.

Computer Information Systems degrees are business oriented. Positions of employment would include computer programmers, application programmers, systems analysts, network administrators, database administrators, systems administrators, web developers, or microcomputer specialists. Degrees in these areas include the following: Management Information Systems (MIS), Computer Information Systems (CIS) or Information Systems (IS).

Students planning to transfer to a four-year college or university must consult with a Computer Information Systems (CIS) advisor and carefully study the requirements of the four-year institution from which they intend to secure a bachelor's degree. Appropriate course substitutions may be made upon the recommendation of a student's advisor and with the approval of the appropriate dean. Substitutions are only made in accordance with the specific requirements of the baccalaureate degree granting institution to which the student intends to transfer.

Students who have previously attended other colleges or universities may apply earned transfer credit in subject areas (i.e., psychology, elective, biology elective etc.) where deemed appropriate. This degree also satisfies the requirements of the MACRAO Transfer Agreement as defined in the handbook section of the college catalog.

Year 1:

Fall Semester	
Chemistry w/lab	4-5
CIS-10500 Introduction to Computers	3
ENG-10000 Writing Lab, if required	0-1
ENG-10303 English Composition I w/Computers	3
MTH-12000 Intermediate Algebra or higher or elective course (from list below) if math sequence is complete (excluding MTH-20500 & MTH-20600)	3-4

Winter Semester	
BIO-10100 or BIO-20100 or BIO-20200 or BIO-21000 or BIO-21300	3-4
ENG-10403 English Composition II w/Computers	3
MTH-13000 College Algebra or elective course (from list below) if math sequence is complete (excluding MTH-20500 & MTH-20600)	3-4
POL-10100 Introduction to American Government	3
PSY-10100 Intro to Psychology OR SOC-10100 Intro to Sociology	3

Year 2:

Fall Semester	
CIS-27001 Programming I	3
GEO-10000, POL-20000, or POL-20100	3-4
Humanities Elective – Language or Literature (see CIS advisor for course list)	3-4
SPE-10500 Fundamentals of Speech OR SPE-11400 Interpersonal & Public Comm	3
Elective course (listed below)	3-4

Winter Semester	
CIS-27101 Programming II	4
HIS-10500, 10600, 20100, 20200, 20300, or 20400	3
Humanities Elective – ART, MUS, or THE	2-3
Elective course (from list below)	2-3
Elective course (from list below)	3-4

Electives:

ACC-12100 Accounting Principles I	4
ACC-12200 Accounting Principles II	4
BUS-10100 Introduction to Business	3
CIS-11700 Visual Basic I	3
CIS-17001 Microsoft Office	3
CIS-22400 UNIX	2
CIS-22500 Spreadsheets	3
CIS-23501 Database design	3
CIS-26000 Intro to Computer Networking	3
ECO-20100 Principles of Economics – Macroeconomics	3
ECO-20200 Principles of Economics – Microeconomics	3

ASSOCIATE IN CRIMINAL JUSTICE – GENERALIST Minimum Credits: 60 (DCJG0) Contact Hours: 62-67

Introduction

The Associate in Criminal Justice - Generalist degree is designed for students who plan to transfer to a four-year college or university, and to help students transferring in from other colleges to meet requirements for entry into the Kirtland Regional Police Academy.

Students planning to transfer to a four-year college or university must consult with their advisor and carefully study the requirements of the four-year institution from which they intend to secure a bachelor's degree. Appropriate course substitutions may be made upon the recommendation of a student's advisor and with approval of the appropriate dean or associate dean. Substitutions are only made in accordance with the specific requirements of the baccalaureate degree-granting institution to which the student intends to transfer.

Students who have previously attended other colleges or universities may apply earned transfer credit in subject areas (i.e. psychology elective, biology elective, etc.) where deemed appropriate. This degree satisfies the requirements of the MACRAO Transfer Agreement as defined in the handbook section of this catalog.

Prerequisites

Applicants admitted to the Criminal Justice - Generalist program must meet the following special entrance requirements: 1) possess a valid Michigan motor vehicle operator's or chauffeur's license; 2) have no felony convictions; 3) have a high school diploma or GED; 4) interview by appointment with a criminal justice advisor before entering the program; 5) provide personal background information and sign release form to facilitate possible background investigation (information and/or investigation may determine eligibility to enter the program); 6) sign and abide by Criminal Justice Code of Conduct, which includes a mandatory dress code; 7) pass a physical examination before enrolling in physical training class.

Course	Title	Cr
CJS-10000	Introduction to Criminal Justice	3
CJS-24000 or SOC-24000	Criminology OR Criminology OR Substitution approved by advisor	3

Course	Title	Cr
CJS-	Criminal Justice electives with advisor approval	0-4

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	- CIS-10500--Introduction to Computers (3)* - ENG-10000--Writing Lab, if required (0-1) - ENG-10303--English Composition I w/Computers (3)* - ENG-10403--English Composition II w/Computers (3)* - SPE-10500--Fundamentals of Speech (3)* OR SPE-11400—Intro to Interpersonal & Public Communication (3)*
Humanities	11-13	- Select 2-3 credits from Art, Music, or Theater.* - Select 3-4 credits from Journalism, Languages, or Literature.* - HIS-10500—History of World Societies to 1500 (3)* OR HIS-10600—History World Societies Since 1500 (3)* OR HIS-20100--US History to 1865 (3)* OR HIS-20200--US History Since 1865 (3)* OR HIS-20300--Michigan History (3)* OR HIS-20400--American Civil War (3)* - PHL-20100 – Introduction to Philosophy (3)* OR PHL-21000 – Introduction to Ethics (3)*
Social Science	15-16	- GEO-10000 – World Geography (4)* OR POL-20000 – International Relations (3)* OR POL-20100 – Comparative Government* (3) - POL-10100 – Introduction to American Government (3)* - PSY-10100 – Introduction to Psychology (3)* - PSY-20200 – Abnormal Psychology (3) - SOC-10100 – Introduction to Sociology (3)*
Math/Natural Science	9-14	- MTH-13000 – College Algebra or higher * (excluding MTH-20500 & MTH-20600) (3-4) - Select two science courses with a lab from BIO, CHE, GEL, or PHY (6-10)*

* Courses that meet General Education Core Competencies

Note: Students must maintain a GPA of 2.0 or better, and a grade of "C" or better in all criminal justice courses.

ASSOCIATE IN FINE ARTS-CREATIVE WRITING (DAFA0)

Minimum Credits: 60
Contact Hours: 62-67

The Associate in Fine Arts: Creative Writing degree is designed for students with an interest in creative writing, whether in prose or poetry or both. This degree program works to give students writing experience in several genres as well as the academic background necessary for further study at other institutions. AFA: CW students will also have the opportunity to meet and converse with practicing poets and fiction writers from outside as well as inside the Kirtland community, through the Controlled Burn reading series, as the participating writers always meet with the creative writing classes.

Because many AFA: CW students will transfer to four-year colleges or universities, they should consult their advisor and make certain that they following a course of study that also meets the requirements of the school to which they intend to transfer.

Appropriate course substitutions may be made upon the recommendation of a student's advisor and with approval of the dean or department chair. Substitutions are only made in accordance with the requirements of the baccalaureate-degree-granting institution to which the student will transfer.

Students who have previously attended other colleges or universities may apply earned transfer credit in subject areas (i.e., psychology elective, biology elective, etc.) where deemed appropriate. This degree satisfies the requirements of the MACRAO Transfer Agreement as defined in the handbook section of this catalog.

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	• CIS-10500 – Introduction to Computers (3)* • ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3)* • ENG-10403 – English Composition II w/Computers (3)* • SPE-10500 – Fundamentals of Speech (3)* - OR SPE-11400 – Intro to Interpersonal & Public Communication (3)*
Humanities	11-13	• Select 2-3 credits from Art, Music, or Theater.* • Select 3-4 credits from Journalism, Languages, or Literature.* • HIS Elective (3) • PHL-20100 -- Introduction to Philosophy (3) - OR PHL-21000 -- Introduction to Ethics (3)
Social Science	9-10	• GEO-10000 – World Geography (4)* - OR POL-20000 – International Relations (3)* - OR POL-20100 – Comparative Government* (3) • POL-10100 – Introduction to American Government (3)* • PSY-10100 – Introduction to Psychology (3)* - OR SOC-10100 – Introduction to Sociology (3)*
Math/Natural Science	9-14	• MTH-13000 – College Algebra or higher (3-4)* • Select two science courses with a lab from AST, BIO, CHE, GEL, or PHY (6-10)*

* Courses that meet General Education Core Competencies

Creative Writing Option:

Course	Title	Cr
ENG-21500	Creative Writing	3
ENG-29100	Poetry Workshop I	3
ENG-29200	Fiction Workshop I	3
ENG-29300	Poetry Workshop II	3
ENG-29400	Fiction Workshop II	3
	Elective Credit, if needed	0-1

ASSOCIATE IN FINE ARTS—STUDIO ART (DAFA1)

Minimum Credits: 62
Contact Hours: 71-81

Introduction

The Associate in Fine Arts: Studio Art degree is designed for students with an interest in studio arts such as sculpture or painting. This degree program works to give students both practical experience in the art form of their choice, and the critical and academic background necessary for further study of the fine arts while helping develop a personal sense of aesthetic and artistic criteria. Because the artist's association with the world is stressed, a strong academic schedule is affiliated with the creative discipline.

Students planning to transfer to a four-year college or university must consult with their advisor and carefully study the requirements of the four-year institution from which they intend to secure a bachelor's degree. Appropriate course substitutions may be made upon the recommendation of a student's advisor and with approval of the appropriate dean or associate dean. Substitutions are only made in accordance with the specific requirements of the baccalaureate degree-granting institution to which the student intends to transfer.

Students who have previously attended other colleges or universities may apply earned transfer credit in subject areas (i.e., psychology elective, biology elective, etc.) where deemed appropriate. This degree satisfies the requirements of the MACRAO Transfer Agreement as defined in the handbook section of this catalog.

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	• CIS-10500 – Introduction to Computers (3)* • ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3)* • ENG-10403 – English Composition II w/Computers (3)* • SPE-10500 – Fundamentals of Speech (3)* - OR SPE-11400 – Intro to Interpersonal & Public Communication (3)*
Humanities	11-13	• Select 2-3 credits from Art, Music, or Theater.* • Select 3-4 credits from Journalism, Languages, or Literature. * • ART Elective (3) • HIS Elective - OR ART-10000 – Art History I (3) - OR ART-10103 – Art History II (3)
Social Science	9-10	• GEO-10000 – World Geography (4)* - OR POL-20000 – International Relations (3)* - OR POL-20100 – Comparative Government* (3) • POL-10100 – Introduction to American Government (3)* • PSY-10100 – Introduction to Psychology (3)* - OR SOC-10100 – Introduction to Sociology (3)*
Math/Natural Science	9-14	• MTH-13000 – College Algebra* or higher (3-4) • Select two science courses with a lab from AST, BIO, CHE, GEL, or PHY (6-10)*

* Courses that meet General Education Core Competencies

Studio Art Option:

ART-28000	Portfolio	3
CIS-21900	MacIntosh O.S.X	1
ART-----	Any ART Electives (recommendation: see Studio Art advisor for guidance)	15

ASSOCIATE IN FINE ARTS—THEATRE ARTS (DAFA2)

Minimum Credits: 60
Contact Hours: 64-75

The Associate in Fine Arts: Theatre Arts degree is designed for students with an interest in theatre arts (such as acting, stage makeup, lighting and sound design, directing, backstage organization, etc.). This degree program works to give students both practical experience in the theatre and the critical and academic background necessary for further study of the fine arts while helping develop a personal sense of aesthetic and artistic criteria. Because the theatre artist's association with the world is stressed, a strong academic schedule is affiliated with the creative discipline.

Students planning to transfer to a four-year college or university must consult with their advisor and carefully study the requirements of the four-year institution from which they intend to secure a bachelor's degree. Appropriate course substitutions may be made upon the recommendation of a student's advisor and with approval of the appropriate dean or associate dean. Substitutions are only made in accordance with the specific requirements of the baccalaureate degree-granting institution to which the student intends to transfer.

Students who have previously attended other colleges or universities may apply earned transfer credit in subject areas (i.e., psychology elective, biology elective, etc.) where deemed appropriate. This degree satisfies the requirements of the MACRAO Transfer Agreement as defined in the handbook section of the college catalog.

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	• CIS-10500 – Introduction to Computers (3)* • ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3)* • ENG-10403 – English Composition II w/Computers (3)* • SPE-10500 – Fundamentals of Speech (3)* OR SPE-11400 – Intro to Interpersonal & Public Communication (3)*
Humanities	11-13	• Select 2-3 credits from Art, Music, or Theater.* • Select 3-4 credits from Journalism, Languages, or Literature. * • HIS Elective (3) • PHL-20100 – Introduction to Philosophy (3) OR PHL-21000 – Introduction to Ethics (3)
Social Science	9-10	• GEO-10000 – World Geography (4)* OR POL-20000 – International Relations (3)* OR POL-20100 – Comparative Government* (3) • POL-10100 – Introduction to American Government (3)* • PSY-10100 – Introduction to Psychology (3)* OR SOC-10100 – Introduction to Sociology (3)*
Math/Natural Science	9-14	• MTH-13000 – College Algebra * or higher (3-4) • Select two science courses with a lab from BIO, CHE, GEL, or PHY (6-10)*

* Courses that meet General Education Core Competencies

Theatre Arts Option:

THE-12000	Introduction to Theatre	3
THE-27000	Audition/Resume Workshop	3
THE- ----	Any THE Electives (recommendation: see Theatre advisor for guidance)	13

ASSOCIATE IN SCIENCE DEGREES

Introduction

Students who plan to eventually complete a bachelor's degree in the field of mathematics, natural science, physical science, education, or engineering are encouraged to follow the Associate in Science degree program. Listed below are some of the majors pursued by students following this program:

Biology	Education – Elementary *	Geology	Physics
Chemistry	Education - Industrial	Mathematics	Pre-Professional Health
Computer Science	Education – Secondary*	Natural Science	Pre-Engineering
Conservation	Forestry	Physical Science	Zoology

Students planning to transfer to a four-year college or university must consult with their advisor and carefully study the requirements of the four-year institution from which they intend to secure a bachelor's degree. Appropriate course substitutions may be made upon the recommendation of a student's advisor and with approval of the appropriate dean or associate dean. Substitutions are only made in accordance with the specific requirements of the baccalaureate degree-granting institution to which the student intends to transfer.

Students who have previously attended other colleges or universities may apply earned transfer credit in subject areas (i.e., psychology elective, biology elective, etc.) where deemed appropriate. This degree satisfies the requirements of the MACRAO Transfer Agreement as defined in the handbook section of the college catalog.

INTERESTED IN BECOMING A TEACHER?

Students interested in pursuing a Bachelor of Arts or Bachelor of Science in Education degree can usually follow an Associate in Arts or Associate in Science transfer degree offered at Kirtland. When planning pre-education course work for an Elementary, Secondary, or Special Education degree, students should meet with a Kirtland counselor or faculty advisor. Though some similarities exist in course requirements among the universities or colleges that prepare teachers, there are also differences that can complicate the advising process and the selection of appropriate courses for transfer to the student's university or college of choice. Therefore, it is very important that each student meet with a counselor or faculty advisor.

ASSOCIATE IN SCIENCE –LIFE SCIENCE (DASC1)

Minimum Credits: 60
Contact Hours: 66-70

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	• CIS-10500 – Introduction to Computers (3)* • ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3)* • ENG-10403 – English Composition II w/Computers (3)* • SPE-10500 – Fundamentals of Speech (3)* - OR SPE-11400 – Intro to Interpersonal & Public Communication (3)*
Humanities	11-13	• Select 2-3 credits from Art, Music, or Theater.* • Select 3-4 credits from Journalism, Languages, or Literature.* • HIS-10500 – World Societies to 1500 (3)* - OR HIS-10600 – World Societies Since 1500 (3)* - OR HIS-20100 – US History to 1865 (3)* - OR HIS-20200 – US History Since 1865 (3)* - OR HIS-20300 – Michigan History (3)* - OR HIS-20400 – American Civil War (3)* • PHL-20100 – Intro to Philosophy (3)* - OR PHL-21000 – Intro to Ethics (3)*
Social Science	9-10	• ANT-10100 – Cultural Anthropology (3)* * - OR PSY-10100 – Introduction to Psychology (3)* - OR SOC-10100 – Introduction to Sociology (3) • GEO-10000 – World Geography (4)* - OR POL-20000 – International Relations (3)* - OR POL-20100 – Comparative Government* (3) • POL-10100 – Introduction to American Government (3)*
Math/Natural Science	20-26	• MTH-20600 – Application in Statistics (3-4) • Select one of the following mathematics courses: MTH-13000 – College Algebra (4) OR MTH-14000 – Trigonometry (3) OR MTH-22002 – Calculus I (4) OR MTH-22102 – Calculus II (4) OR MTH-22202 – Calculus III (4) OR MTH-23000 – Differential Equations (4) • BIO-10100 – General Biology (3-4) • BIO-20100 – General Zoology (4) OR BIO-20200 – General Botany (4) OR BIO-21000 – Microbiology (4) OR BIO-21300 – Nature Study (4) • Select either a Chemistry or Physics sequence: CHE-10101/02 – General Chemistry I (4) & Lab (1) AND CHE-10201/02 – General Chemistry II (4) & Lab (1) OR PHY-20101/02 – Physics I with Trigonometry (4) & Lab (1) AND PHY-20201/02 – Physics II with Trigonometry (4) & Lab (1) OR PHY-22101/02 – Physics I with Calculus (4) & Lab (1) AND PHY-22201/02 – Physics II with Calculus (4) and Lab (1)

* Courses that meet General Education Core Competencies

This curriculum is designed to provide the general education courses needed to transfer to a university for bachelor's degree completion.

ASSOCIATE IN SCIENCE—PHYSICAL SCIENCE (DASC2)

Minimum Credits: 60
Contact Hours: 66-74

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	• CIS-10500 – Introduction to Computers (3)* • ENG-10000 – Writing Lab, if required (0-1) • ENG-10303 – English Composition I w/Computers (3)* • ENG-10403 -- English Composition II w/Computers (3)* • SPE-10500 – Fundamentals of Speech (3)* - OR SPE-11400 – Intro to Interpersonal & Public Communication (3)*
Humanities	11-13	• Select 2-3 credits from Art, Music, or Theater.* • Select 3-4 credits from Journalism, Languages, or Literature.* • HIS-10500 – World Societies to 1500 (3)* - OR HIS-10600 – World Societies Since 1500 (3)* - OR HIS-20100 – US History to 1865 (3)* - OR HIS-20200 – US History Since 1865 (3)* - OR HIS-20300 – Michigan History (3)* - OR HIS-20400 – American Civil War (3)* • PHL-20100 – Introduction to Philosophy (3)* - OR PHL-21000 – Introduction to Ethics (3)*
Social Science	9-10	• ANT-10100 – Cultural Anthropology (3)* * - OR PSY-10100 – Introduction to Psychology (3)* - OR SOC-10100 – Introduction to Sociology (3) • GEO-10000 – World Geography (4)* - OR POL-20000 – International Relations (3)* - OR POL-20100 – Comparative Government* (3) • POL-10100 – Introduction to American Government (3)*
Math/Natural Science	22-24	• Select one of the following mathematics courses: MTH 22002 – Calculus I (4) OR MTH 22102 – Calculus II (4) OR MTH-22202 – Calculus III (4) OR MTH-23000 – Differential Equations <i>Note: (MTH-20500 or MTH-20600 cannot be counted for credit.)</i> • Select either a Chemistry or Physics sequence: CHE-10101/02 – General Chemistry I (4) & Lab (1) AND CHE-10201/02 – General Chemistry II (4) & Lab (1) OR PHY-20101/02 – Physics I with Trigonometry (4) & Lab (1) AND PHY-20201/02 – Physics II with Trigonometry (4) & Lab (1) OR PHY-22101/02 – Physics I with Calculus (4) & Lab (1) AND PHY-22201/02 – Physics II with Calculus (4) and Lab (1) • Select any two (or more) of the following courses: BIO-10100 – General Biology (4) BIO-20100 – General Zoology (4) BIO-21000 – Microbiology (4) BIO-21300 – Nature Study (4) CHE-10101/02 – General Chemistry I (4) & Lab (1) CHE-10201/02 – General Chemistry II (4) & Lab (1) GEL-10500 – Physical Geology (4) MTH 22102 – Calculus II (4) MTH-22202 – Calculus III (4) PHY-20101/02 – Physics I with Trigonometry (4) & Lab (1) PHY-20201/02 – Physics II with Trigonometry (4) & Lab (1) PHY-22101/02 – Physics I with Calculus (4) & Lab (1) PHY-22201/02 – Physics II with Calculus (4) and Lab (1)
	0-6	Electives, if needed

* Courses that meet General Education Core Competencies

This curriculum is designed to provide the general education courses needed to transfer to a university for bachelor's degree completion.

PARTNERSHIPS WITH OTHER INSTITUTIONS

Associate in Applied Science

- Radiography

Bachelor of Applied Science

- Biometric Security—Davenport University
- Computer Gaming & Simulation—Davenport University
- Computer Information Systems—Davenport University
- Information & Computer Security—Davenport University
- Network Security—Davenport University

Bachelor of Arts

- Elementary Education—Spring Arbor University/Gaylord

Bachelor of Business Administration

- Applied Business—Davenport University
- Business Professional Studies—Davenport University
- Health Information Management—
- Health Services Administration—Davenport University
- Human Resource Management—Davenport University
- International Business—Davenport University
- Management—Davenport University
- Management—Northwood University
- Marketing—Davenport University
- Public Safety & Security Management—Davenport University
- Service Management & Marketing—Davenport University
- Sport Management—Davenport University
- Strategic Human Resource Management—Davenport University (BBA/MBA)

Bachelor of Fine Arts

- Fine Arts—College for Creative Studies
- Graphic Design—College for Creative Studies

Bachelor of Science

- Accounting—Franklin University
- Applied Management—Franklin University
- Automotive & Heavy Equipment Management—Ferris State University
- Automotive Engineering Technology—Ferris State University
- Business Administration—Franklin University
- Business Administration—Management—Lake Superior State University
- Business Administration—Marketing—Lake Superior State University
- Business Forensics—Franklin University
- Computer Information Systems—Ferris State University & Saginaw Valley State University
- Computer Science—Central Michigan University
- Computer Science—Franklin University
- Computer Science—Saginaw Valley State University
- Criminal Justice—Madonna University
- Digital Communication—Franklin University
- Education: Elementary or Secondary—Central Michigan University

- eMarketing—Franklin University
- Engineering Technology—Ferris State University
- Financial Management—Franklin University
- Forensic Accounting—Franklin University
- Healthcare Information Systems Management—Franklin University
- Healthcare Management—Franklin University
- Human Resource Management—Franklin University
- Information Technology—Franklin University
- Management—Franklin University
- Management Information Systems (MIS)—Franklin University
- Manufacturing Engineering Technology—Ferris State University
- Marketing—Franklin University
- Medical Case Management—Davenport University
- Nursing—Davenport University (BSN)
- Product Design Engineering Technology—Ferris State University
- Public Safety Management—Franklin University
- Web Development—Franklin University
- Welding Engineering Technology—Ferris State University

Other

- Articulation—Palmer College of Chiropractic

ART DEGREE PARTNERSHIPS

There has never been a better time to be an art school graduate. There are a remarkable number of occupations that require people with artistic talents. Many of the things that lead to improving our quality of life have input from artists. The physical things in our lives—the art that inspires us, the products that we use, the things we see on our screen, the materials we read—all of these affect our sense of what it is to be a complete human being, and all of them are touched by artists. You know it...there are artists all around us. Many of them are called designers. Their influence may be invisible to the typical person, but it's there and it's real and it's growing all the time.

Students in Kirtland Community College's art programs (Associate in Fine Arts—Studio Art, Associate in Applied Science—Graphic Design, and Associate in Applied Science—Animation and Game Design) now have some of the best opportunities to continue to further their education once they build their portfolios while attending Kirtland. Working with the College for Creative Studies (CCS) and Kendall College of Art and Design, past Kirtland Art students have won significant tuition awards at these colleges based on their portfolios in the annual student merit scholarship competitions, with some even receiving full-ride scholarships.

Kirtland art students have experienced excellent transferability of credits to both colleges. Students should contact those listed for specific program information. Students wanting additional information on the various Bachelor of Fine Art programs should contact the respective institutions at the addresses listed below.

College and University Contact Information:

College for Creative Studies Katherine Armstrong-Blanchard Admissions Counselor kblanchard@collegeforcreativestudies.edu 313-664-7814 Website: www.collegeforcreativestudies.edu	Kirtland Community College Scott Rice, ricet@kirtland.edu 989-275-5000, ext. 300
Kendall College of Art and Design Theresa Chiles Admissions Officer chilest@ferris.edu 616-451-2787 Website: www.kcad.edu	

BACHELOR OF FINE ARTS DEGREES

Graphic Design

College for Creative Studies

Fine Arts

College for Creative Studies

Additional Fine Arts degrees are offered at College for Creative Studies: Advertising Design, Animation & Digital Media, Art Education, Crafts, Illustration, Interior Design, Photography, Product Design, & Transportation Design.

Fine Arts degrees are also offered at Kendall College of Art & Design: Art Education, Art History, Digital Media, Fine Arts, Furniture Design, Graphic Design, Illustration, Industrial Design, Interior Design, Metals & Jewelry Design, Painting, Photography, and Sculpture & Functional Art

AUTOMOTIVE DEGREE PARTNERSHIPS

College & University Contact Information:

Davenport University

Karen Aune, karen.aune@davenport.edu
989-705-3720

Ferris State University

Shari Chamberlain, chambers@ferris.edu
1-800-4-FERRIS
OR Greg Key, Automotive Department Chair, College of
Technology
keyg@ferris.edu or 231-581-2655

Kirtland Community College

Richard Bonk, bonks@kirtland.edu
989-275-5000, ext. 329
Don Dyer, dyerd@kirtland.edu
989-275-5000, ext. 231

BACHELOR OF BUSINESS ADMINISTRATION DEGREES

Applied Business

Davenport University

Kirtland Community College and Davenport University have entered into an agreement whereby students can earn all but the final 30 credits for their Bachelor of Business Administration Degree at Kirtland Community College. Twenty-three credits of automotive courses will apply as "Specialty Credit" in the degree; other requirements are met by the general education requirements of Kirtland's AAS in Automotive Technology and by additional courses which can be taken at Kirtland in order to fulfill Davenport's degree requirements.

BACHELOR OF SCIENCE DEGREES

Automotive Engineering Technology

Ferris State University

AET is an instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing, manufacturing, and testing self-propelled ground vehicles and their systems. It includes instruction in vehicular systems technology, design and development testing, instrument calibration, test equipment operation and maintenance, and report preparation.

Transfer students are required to complete an Associate Degree in Automotive Technology with a 2.7 gpa in major coursework, possess an overall gpa of 2.5, complete College Algebra, Trigonometry, and Physics I with Trigonometry, including the lab. Applications should be submitted by January 15th for fall entry. A minimum of 30 credit hours must be completed at Ferris to meet graduation requirements.

Automotive & Heavy Equipment Management

Ferris State University

The automotive and heavy equipment industry needs managers and representatives with up-to-date technical, managerial, and communication skills. Manufacturers need service, sales, parts and customer relations representatives. Positions also exist in dealerships and repair centers and include service management, parts management, sales, leasing, and general management. Other management positions include aftermarket managers, fleet managers, technical writers, trainers, and government agency managers.

Transfer students are required to complete an Associate Degree in Automotive Technology with a gpa of 2.0 or higher. Intermediate Algebra or higher is required. Applications should be submitted by January 15th for fall entry. A minimum of 30 credit hours must be completed at Ferris to meet graduation requirements.

BUSINESS DEGREE PARTNERSHIPS

College and University Contact Information:

Davenport University

Karen Aune, karen.aune@davenport.edu
989-705-3720

Franklin University

Thom Leiter, leitert@franklin.edu
1-888-341-6237, ext. 6057

Lake Superior State University

Kathleen Clarady, kclarady@lssu.edu
906-635-2808

Northwood University—Bay City (nights/weekends/online)

Rachel Charbonneau, rachel@northwood.edu
989-671-9405

Northwood University—Midland (daytime programs)

Wynn McDonald, mcdonalw@northwood.edu
989-837-4156

Kirtland Community College

Judith Grenkowicz, grenkowj@kirtland.edu
989-275-5000, ext. 219

Don Dyer, dyerd@kirtland.edu

989-275-5000, ext. 231

BACHELOR OF BUSINESS ADMINISTRATION DEGREES

Business Professional Studies

Davenport University

The Business Professional Studies degree prepares students to enter either the business or government sectors as general managers. Presented with learning opportunities ranging from lecture and textbook study to case analysis and business simulations, students are grounded in the fundamentals of business, with emphasis on critical thinking and problem solving. The substantial number of elective courses allows students to tailor this degree program to individual career objectives.

Human Resource Management

Davenport University

Students gain skills in human resource management fundamentals through broad exposure to various human resource topics in a learning environment that balances textbook theory with real-world management application. Through varied learning methodologies, students are exposed to a range of human resource career opportunities with emphasis on the strategic role of human resources in today's business world.

International Business

Davenport University

The International Business curriculum prepares students to meet the challenges of the global workplace. Varied learning methodologies focus on enhancing business fundamentals with the skills to manage cultural, social, and linguistic diversity. Successful students will acquire the comprehensive perspective, critical thinking, and problem solving expertise essential for international business operations.

***Non-native speakers of English (individuals whose language of birth is other than English) and native English speakers who have a basic competency (two semesters) in a second language should discuss possible foreign language course alternatives with their academic advisor at Davenport.

+ Study Abroad or Internship requirement: While students are encouraged to complete a University-approved study abroad program, there may be extraordinary conditions where this requirement cannot be met. Thus, the student may apply to meet this requirement by completing an internship assignment with a site-approved organization that does business globally. In electing the internship option the student agrees to adhere to all the Internship Guidelines and processes required of Davenport University. Successful completion of either the Study Abroad Experience or the International Business Internship is required as part of the degree and cannot be waived. Applications for an internship in lieu of the study abroad require approval by the appropriate associate dean or Dean of the School of Business prior to beginning the internship.

Management

Davenport University

Management students gain skills in business fundamentals and specific management disciplines in a learning environment that balances textbook theory with real-world management application. Through varied learning methodologies, students are exposed to a wide range of management opportunities with emphasis on critical thinking and problem solving. Graduates earn a Bachelor of Business Administration degree with a major in Management and an elective specialty in Financial Management, Global Project Management, Governance and Leadership, or Entrepreneurship.

Management

Northwood University

The Business Administration degree with an emphasis on Management is a collaborative program offered by an agreement between Kirtland Community College and Northwood University. The program is designed to prepare graduates to pursue careers in management, business, industry, government, and non-profit organizations. In addition to classroom instruction, the student will also have an option to receive on-the-job practical education through college-provided internships.

Kirtland students may earn any associate degree at Kirtland, as long as the associate degree includes English Composition, history or sociology, science, and speech. There is an additional third year of courses that can be taken at Kirtland. If students get a business degree and have already taken some of these third-year courses, they will then work with a Northwood or Kirtland advisor and take other Kirtland courses for their third year. A minimum of 90 semester hours must be completed at Kirtland prior to transferring to Northwood to take full advantage of this agreement.

The collaborative program has many benefits for students at Kirtland including the following:

- Most of the general education, business basics, and prerequisite courses can be taken at Kirtland.
- Advisors at both schools are well trained to assist students in planning their program.
- Northwood is only a one and one-half-hour ride from Kirtland.

Marketing

Davenport University

Marketing students gain skills in business fundamentals and specific marketing disciplines in a learning environment that balances textbook theory with real-world marketing application. Students become familiar with the marketing functions and processes that deliver customer value, enhance customer relationships and benefit organizations and their stakeholders. Varied learning methodologies that emphasize critical thinking, problem solving and ethical decision-making prepare students for the marketing challenges of today's global environment. Graduates earn a Bachelor of Business Administration degree with a major in Marketing and an elective Specialty in Business-to-Business, Advertising and Promotion, Entrepreneurship, or Sport Marketing.

Service Management & Marketing

Davenport University

The Service Management and Marketing degree emphasizes the development of the strategic and practical skills necessary to meet the management challenges of the fast-growing 21st century service sector, including financial services, retailing, health care, governmental and not-for-profit organizations. Students will move from management and marketing fundamentals to advanced coursework focused on managing profitable customer relationships through the delivery of exceptional service. A combination of experiential learning tools, including case studies and simulations, will introduce students to the complexities unique to service organizations.

Sport Management

Davenport University

Students gain skills in business fundamentals and specific sport management disciplines in a learning environment that balances textbook theory with real-world business application. Through varied learning methodologies including an internship, students are exposed to the legal, regulatory, marketing and operational aspects of sport venue management. Graduates earn a Bachelor of Business Administration degree with a major in Sport Management.

Strategic Human Resource Management

Davenport University

This program provides students with the opportunity to earn a Bachelor of Business Administration in Human Resource Management combined with a Master of Business Administration with a concentration in Strategic Human Resource Management.

By combining the two degrees, students benefit from the depth and breadth of the coordinated course offerings. While the bachelor's degree focuses on the fundamentals of human resource management with emphasis on skill-building and real-world application, the master's degree concentrates on the strategic role of human resource management. A cross-functional strategic approach combined with application-based problem solving provides learning depth in the disciplines of compensation and international human resource management as well as organizational management.

Both degrees will be awarded with the completion of the 150 credit hour program.

Preadmission Requirements:

- Application to the BBAMBA 150 credit program can be made after completion of all Foundations of Business courses AND all 200-300 major-area courses (excluding HRMG330 International Management) in the Bachelor of Business Administration in Human Resource Management program BUT prior to the scheduling of MBA course credits
- Overall GPA of 3.0 which must include major-area course work
- GMAT exam score submission
- Completed application for the Sneden MBA Program
- Resume
- Two letters of professional recommendation
- Interview with appropriate MBA personnel (if required)
- Certified by the Human Resource Certification Institute (HRCI) as either a student-level designated Professional in Human Resources (PHR) or Senior Professional in Human Resources (SPHR)

The MBA selection committee will review the application once all preadmission requirements have been met.

BACHELOR OF SCIENCE DEGREES

Accounting

Franklin University

All sectors of business depend on accounting professionals to keep the wheels of commerce turning. A degree from Franklin University, the quality leader in accounting education, will lay a strong foundation for your success in today's business world. Franklin's distinctive major allows you to develop a knowledge base for professional certifications, including the Certified Public Accountant (CPA). And with no rigid lock-step requirements, each accounting course is offered each term, helping you earn your degree according to your schedule.

- Develop a strong grasp of accounting principles, incorporating research and communication in the workplace
- Learn to write structural and analytical papers and memos
- Gain the skills to present knowledge and analysis to various audiences
- Adhere to a strong code of accounting ethics and professional responsibility
- Network in the Franklin accounting community of students, faculty and respected industry professionals

Career Options Include: Auditor, Tax Accountant, Accounting Consultant, Staff Consultant, and Cost Management Accountant

Business Administration

Franklin University

The Business Administration degree is a collaborative program offered by an agreement between Kirtland Community College and Franklin University. The program is designed to prepare graduates to pursue careers in management, business, industry, government, and non-profit organizations. In addition to classroom instruction, the student will also have an option to receive on-the-job practical education through college-provided internships.

To enter the Kirtland Community College/Franklin University program, students must meet one of the following admissions criteria:

- Have earned an Associate in Business Administration or an Associate in Applied Science - Business Management
- Have earned any other Associate in Arts, Associate in Science, or Associate in Applied Science degree
- Have completed 60 semester/90 quarter credit hours and earned a 2.5 GPA

The final year of courses are taken online through Franklin University. Students need to work with a Franklin advisor to determine exactly what courses will be taken online. The collaborative program has many benefits for students at Kirtland including the following:

- Students never have to leave home or northern Michigan because Franklin courses can be taken online. Many of the required Kirtland courses are also offered online. This is a great program for those that may find it difficult to travel.
- Advisors at both schools are well trained to assist students in planning their program.

Business Administration—Management

Lake Superior State University

The Business Administration Degree with an emphasis on Management is a collaborative program offered by an agreement between Kirtland Community College and Lake Superior State University. The program is designed to prepare graduates to pursue careers in management, business, industry, government, and non-profit organizations. In addition to classroom instruction, the student will also have an option to receive on-the-job practical education through college-provided internships.

The collaborative program has many benefits for students at Kirtland including the following:

- Most of the general education, business basics, and prerequisite courses can be taken at Kirtland.
- Advisors at both schools are well trained to assist students in planning their program.
- Lake Superior State University is only a two and one-half-hour ride from Kirtland

Business Administration—Marketing

Lake Superior State University

The Business Administration degree with an emphasis on Marketing is a collaborative program offered by an agreement between Kirtland Community College and Lake Superior State University. The program is designed to prepare graduates to pursue careers in management, business, industry, government, and non-profit organizations. In addition to classroom instruction, the student will also have an option to receive on-the-job practical education through college-provided internships.

The collaborative program has many benefits for students at Kirtland including the following:

- Most of the general education, business basics, and prerequisite courses can be taken at Kirtland.
- Advisors at both schools are well trained to assist students in planning their program.
- Lake Superior State University is only a two and one-half-hour ride from Kirtland

Business Forensics

Franklin University

White collar crime doesn't often leave behind obvious clues, making it easy to miss — and often hard to prosecute. The objective of business forensics is to uncover the causes and effects of business fraud, questionable business practices or identity theft. The Business Forensics Major at Franklin University teaches you how to apply business and basic accounting principles, theories and disciplines to uncover facts and analyze hypotheses at issue in legal disputes. This fascinating field encompasses virtually every branch of business knowledge, and Franklin's Business Forensics Major gives you a broad-based understanding of the many disciplines involved, including auditing, business administration, finance, quantitative methods and more.

Career Options Include: Law Enforcement Officer, Loss Prevention Manager, Independent Fraud Examiner, Private Investigator and Government Fraud Examiner.

eMarketing

Franklin University

The integration of communication and Internet technology is a driving force in today's business world. Franklin's cutting-edge eMarketing Major focuses on the skills necessary to market products and services in the information age via the Internet, email, data-mining, data metrics and other Web-based applications.

Upon graduation, you will be well qualified to help companies evaluate existing and execute future eMarketing strategies to boost overall sales, productivity and customer satisfaction. Career Options Include: Director of Internet Marketing, Manager of eCommerce and Web Marketing Manager.

Financial Management

Franklin University

Responsible financial management is essential for success on both individual and corporate levels. The Financial Management Major at Franklin University will help you acquire the skills necessary to develop and implement appropriate financing and investment strategies for business or personal financial planning.

Choose from two Concentrations to meet your career goals: The **Financial Management Concentration** qualifies you for positions in corporate level financing. The **Financial Planning Concentration** allows you to provide sound financial planning for individuals. Upon graduation, you will be eligible to take the national Certified Financial Planner (CFP) examination. Graduates from the Financial Management major are well qualified for careers in positions such as: Bank Officer, Financial Analyst, Risk and Insurance Manager, Stock Broker, Credit Manager and Financial Planner.

Forensic Accounting

Franklin University

In response to recent corporate accounting scandals, U.S. legislation has increased accounting and regulatory requirements for accountants and business executives. The Forensic Accounting Major at Franklin University gives you the tools you need to become a skilled specialist in forensic accounting and the related litigation advisory services, teaching you how to reduce the incidence of white collar crimes. Plus, the major allows you to develop a foundation of knowledge for professional certifications, including the CFE (Certified Fraud Examiner) and the CPA (Certified Public Accountant), paving your way to success in this growing profession.

Career Options Include: Independent Forensic Auditor, Internal Fraud Examiner, Accounting Forensic Consultant, Corporate Accounting Officer and Governmental Fraud Assessor.

Human Resource Management

Franklin University

Today's competitive job market requires human resources (HR) professionals who can help businesses select, develop and retain employees that complement the organizational culture. Equipped with Franklin's Human Resources Management Major, you will be well qualified to execute key functions within the HR department, understanding essential candidate analysis techniques, compensation models, training skills and methods. Plus, you'll find plenty of opportunities to network with fellow HR students and professionals in the field. Franklin's bachelor of science in Human Resources Management has been reviewed by the Society of Human Resources Management (SHRM) and recognized as aligning with SHRM's HR Curriculum Guidebook and Templates. Career Options Include: Human Resources Assistant, Employee Benefits Analyst, Recruitment Specialist, Training and Development Coordinator and Dispute Resolutions Mediator.

Management

Franklin University

In today's business world, being an effective manager demands much more than giving orders, meeting deadlines and boosting profits. The Management Major at Franklin University prepares you to be a forward-thinking leader with the ability to positively transform a work environment. You'll go beyond management basics to master organizational theory, apply performance improvement concepts and explore the nuances of developing a cohesive team — all while developing your unique management style.

Career Options Include: General Manager, Supervisor, Team Leader, Coordinator, and Operations/Production Manager

Organizations in every industry rely on marketing professionals to pave the way for business success. Franklin's Marketing Major will give you the skills and confidence you need to promote, price and distribute a good, service or idea according to a well-designed plan. This will help an organization go beyond increasing the bottom line to develop and maintain a competitive edge in a marketplace. With the creative, analytical, communication and problem-solving skills gained through Franklin's Marketing Major, you will not only be able to market products and services — but market yourself to employers as well!

Career Options Include: Marketing Manager, Advertising Copywriter, Internet Marketing Strategist, Market Research Analyst and Public Relations Specialist.

COMPUTER INFORMATION SYSTEMS DEGREE PARTNERSHIPS

College and University Contact Information:

Central Michigan University

Marcie Otteman, ottemlmm@cmich.edu or Bob Garcia, garcia1r@cmich.edu
989-774-3076

Davenport University

Karen Aune, karen.aune@davenport.edu
989-705-3720

Ferris State University

Shari Chamberlain, chambers@ferris.edu
1-800-4-FERRIS

Franklin University

Thom Leiter, leitert@franklin.edu
1-888-341-6237, ext. 6057

Saginaw Valley State University

admissions@svsu.edu
090-964-4200 or 1-800-968-9500

Kirtland Community College

Lisa Balbach, balbachl@kirtland.edu
989-275-5000, ext. 414
Don Dyer, dyerd@kirtland.edu
989-275-5000, ext. 231

BACHELOR OF APPLIED SCIENCE DEGREES

Biometric technology is growing in popularity, both in the private and public sectors. With respect to the field of Information Security, Biometrics is the applicable study of how to authenticate individuals via biological features. An alternative to passwords, which can be cracked or stolen, biometric authentication applies unique physical characteristics such as fingerprint, retina, or voice patterns. A bachelor's degree in Biometric Security will prepare students to apply biometric technologies to meet the need for secure authentication.

Computer Gaming & Simulation

Davenport University

The Bachelor of Science degree in Computer Gaming and Simulation is designed to provide students with the skills and knowledge to apply programming and animation software tools for creating basic computer games and interactive simulations. Courses emphasize storyboarding, conventional 2D and 3D modeling, and collaborative application development. Students will also gain a general business knowledge base highlighting project management and organizational processes spanning business operations including management, marketing, and information security. This degree prepares students for entry-level positions, including software QA and Game/Simulation Modeler.

Computer Information Systems

Davenport University

The Computer Information Systems Bachelor of Science degree is designed to give students a broad range of computer skills in both the microcomputer and mini/mainframe environments. Students will learn to work with management and users to analyze information needs and determine ways in which computer systems can be used to meet those needs. Solid problem solving and communication skills are a must. Students will choose between five specialties; Programming, Web Design, Web Development, Database Management, and Global Project Management. It is highly recommended that all students use open electives to complete more than one specialty.

Information & Computer Security

Davenport University

The Bachelor of Science degree in Information and Computer Security provides the proactive and reactive knowledge and skills that encompass security in the technological environment. Hands-on tools and techniques, supported by the latest trends and case studies, will cover myriad topics to present what security is and how to best protect an organization's information assets. The courses in the program cover topics directly related to the objectives of certification exams in the area of information and computer security. Careers in Information and Computer Security include Computer Security Coordinator, Computer Systems Analyst, Computer Security Consultant, Computer Security Administrator, Computer Security Architect and Business Development Manager.

Network Security

Davenport University

The Bachelor of Science in Network Security degree prepares students to create and implement network security policies for an organization. In addition to network security fundamentals, this program also includes the knowledge and skills to perform administrative oversight of disaster recovery, information assurance, and other network security policies. Hands-on coursework will provide more advanced security skills in a variety of hardware and software environments. The courses in the program cover topics directly related to the objectives of certification

BACHELOR OF SCIENCE DEGREES

Computer Information Systems

Ferris State University

The Computer Information Systems (CIS) curriculum provides students with a broad understanding of core business functions, competency in computer programming, knowledge of information technology infrastructure, and a sound foundation in systems analysis and design. The CIS program has close relationships with industry through an advisory board and offers internships as a practical hands-on experience.

Additional information is also available at http://services.kirtland.edu/cis/Transfer/Ferris_CIS_transfer.htm.

Students should contact those listed for specific program information.

Computer Information Systems

Saginaw Valley State University

Computer Information Systems is a rapidly expanding field that encompasses a wide spectrum of specialties and affects various aspects of life. As a CIS graduate, students are employed in many phases of the analysis, design, manufacturing, testing, research, development, and administration of computer systems. A Computer Information Systems graduate might become a programmer, applications programmer, system administrator, web developer, analyst, systems analyst, network administrator, or database administrator. Co-op opportunities are available with local industries.

Students should contact those listed for specific program information. Students wanting additional information on the Computer Information Systems major at Saginaw Valley State University should visit <http://www.svsu.edu/cs/cis.htm>. Additional information is also available at http://services.kirtland.edu/cis/Articulation/SVSU_CIS_Articulation.htm

Computer Science

Central Michigan University

The study of computer science can lead to such careers as applications programmer, systems programmer/analyst, computer communications specialist, database manager, and consultant. The field serves those students desiring general instruction in computer science, those interested in teaching the subject, and those who want to undertake advanced study of computer science at the graduate level. Information technology graduates will find a variety of career opportunities, including network administration, database administration, Web master, application system designer, multimedia specialist, and customer service technologist. Students should contact those listed for specific program information. Additional information is also available at <http://services.kirtland.edu/cis/Articulation/CMUarticulation.htm>

Computer Science

Franklin University

The Computer Science curriculum provides all graduates with a foundation in programming, algorithm development, computer architecture, operating systems, and networks through a set of core courses. The curriculum also allows specialization through the choice of two different options: software engineering, which is more technical in nature, and an MIS option, which is business-oriented. Courses ranging from introductory programming courses to advanced courses in Artificial Intelligence, Computer Architecture, Computer Graphics, Human Computer Interaction, Web Application Development, Systems Programming, Data Communication, and Compiler Construction are available. For additional information on the Computer Science BS Degree at Franklin University visit <http://cs.franklin.edu/>

To enter the Kirtland Community College/Franklin University program, students must meet one of the following admissions criteria:

- Have earned an Associate in Computers – Information Systems
- Have earned any other Associate in Arts, Associate in Science, or Associate in Applied Science degree
- Have completed 60 semester/90 quarter credit hours and earned a 2.5 GPA

Additional information is also available at http://services.kirtland.edu/cis/Articulation/Franklin_CS_Articulation.htm. Students should contact those listed for specific program information.

Computer Science

Saginaw Valley State University

Computer Science is a rapidly expanding field that encompasses a wide spectrum of specialties and affects various aspects of life. Computer scientists may be employed in many phases of the analysis, design, manufacturing, testing, research, development, and administration of computer systems. Students may be employed as software engineers, applications programmers, system administrators, web developers, algorithm development engineers, network administrators, or database administrators. Co-op opportunities are available with local industries. Students should contact those listed for specific program information. Additional information is also available at http://services.kirtland.edu/cis/Articulation/SVSU_CS_Articulation.htm. Students wanting additional information on the Computer Information Systems major at Saginaw Valley State University should visit <http://www.svsu.edu/cs/cs.htm>

Digital Communications

Franklin University

Successful businesses are increasingly using the Internet and related electronic commerce technologies. These business initiatives require graduates who understand current and future trends in digital communication and electronic commerce and are prepared to manage the analysis, design, implementation, marketing, and operation of digital information systems. This program includes a Web Development track and an E-Commerce track. Depending on the track selected, students will acquire skills or knowledge in web development, marketing, graphics design, electronic commerce system skills, and the technology of databases, user interface design, networking, and management information systems.

To enter the Kirtland Community College/Franklin University program, students must meet one of the following admissions criteria:

- Have earned an Associate in Computers – Information Systems
- Have earned any other Associate in Arts, Associate in Science, or Associate in Applied Science degree
- Have completed 60 semester/90 quarter credit hours and earned a 2.5 GPA

Additional information is also available at http://services.kirtland.edu/cis/Articulation/Franklin_DigitalComm_Articulation.htm. Students should contact those listed for specific program information. Students wanting additional information on the Digital Communications BS Degree at Franklin University should visit <http://www.franklin.edu/programs/dcom/>.

Information Technology

Franklin University

Technology has truly revolutionized the business world, driving the need for competent information technology professionals. With Franklin University's Information Technology (IT) major, you can play an essential role in a business environment by designing and implementing mission-critical infrastructure, security and servers. Franklin's IT Major exposes you to a broad spectrum of knowledge, experience and skills to help you meet and maintain the technology needs of progressive businesses today — and into the future.

Career Options Include: Network Administrator, IT Support Generalist, Systems Administrator, Help Desk Technical Specialist and Web Security Administrator.

Management Information Science (MIS)

Franklin University

The MIS program focuses on the intersection of management and technology. A distinguishing feature of this program is its integrated approach to technical, organizational, and systems elements within the curricula that will enable future managers and technical specialists to interact effectively in organizations. Franklin is building a bridge between management and technology in order to meet the growing demand of companies seeking to sustain a competitive advantage technologically. This program includes a large number of business and computer courses.

To enter the Kirtland Community College/Franklin University program, students must meet one of the following admissions criteria:

- Have earned an Associate in Computers – Information Systems
- Have earned any other Associate in Arts, Associate in Science, or Associate in Applied Science degree
- Have completed 60 semester/90 quarter credit hours and earned a 2.5 GPA

Additional information is also available at http://services.kirtland.edu/cis/Articulation/Franklin_MIS_Articulation.htm. Students should contact those listed for specific program information.

Web Development

Franklin University

With the explosive growth of the Internet, electronic commerce and Web applications, innovative Web technologies are now an integral part of day-to-day business operations.

Franklin's highly-specialized Web Development Major will prepare you for a career as a Web Master or Web Developer. You will champion technologies necessary to develop and continually enhance the end product — a well-designed, easy to use Web site.

Career Options Include: Web Master, Web Designer, Web Administrator, Web Developer and eCommerce Analyst.

CONSTRUCTION TECHNOLOGY DEGREE PARTNERSHIPS

College & University Contact Information:

Davenport University Karen Aune, karen.aune@davenport.edu 989-705-3720 Ferris State University Shari Chamberlain, chambers@ferris.edu 1-800-4FERRIS Michael Feutz, Department Chair, feutzm@ferris.edu 231-591-2351 or 1-800-4FERRIS	Kirtland Community College Alan Mabarak, mabaraka@kirtland.edu 989-705-3694 Don Dyer, dyerd@kirtland.edu 989-275-5000, ext. 231
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BACHELOR OF BUSINESS ADMINISTRATION DEGREE

Applied Business

Davenport University

This program is specifically designed for those who have already attained an applied associate's degree. The distinctive feature of this program is its recognition of the expertise evidenced by the associate's degree. This associate's degree may be obtained at any accredited community college, junior college, or other institution that grants associate's degrees. Credits earned toward the associate's degree will then be accepted at Davenport University under the following conditions:

- The applied associate's degree must include at least 24 semester hours in a suitable major area of study not currently offered at Davenport University. These 24 semester hours can only be used as transfer credits in the specialty area of the BBA major.
- All credits toward an associate's degree up to 64 semester hours will be accepted.
- Semester hours beyond 64 will be accepted only if (a) They are equivalent to a Foundations of Excellence requirement or elective at Davenport; or (b) They are equivalent to Foundations of Business courses at Davenport; or (c) They are an acceptable substitute, as determined by the Dean or Registrar, for either a Foundations of Excellence or Foundations of Business requirement.
- Students must take a minimum of 30 semester hours at Davenport to fulfill residency requirements. This includes at least 15 semester hours of their Foundations of Business requirements and the BUSN495 Business Planning Capstone course at Davenport.

BACHELOR OF SCIENCE DEGREE

Engineering Technology

Ferris State University

The HVACR program addresses designing, retrofitting, testing and balancing on a problem-solving level and prepares the HVACR engineering technologist to fill a wide technological gap between the service technicians and engineers. Challenging careers abound on a national level with firms who look for trained HVACR engineering technicians for a variety of positions: application and/or project engineering, systems control, estimating, engineering, field technician, systems reps, marketing, control systems training and HVACR in-plant engineering.

Admissions Requirements for Transfer Students

- Associate degree in Heating, Ventilation and Air Conditioning from Kirtland Community College with a minimum GPA of 2.5
- Completion or competency in the following courses: CIS-17001, ENG-10303, ENG-10403, MTH-12000, MTH-14000, PHY-20101 & PHY-20102

Transfer Guide

- In addition to the courses completed for the Associate Degree, there may be other courses that can be completed prior to transfer to Ferris that will meet requirements for the B.S. major. **Note: First, check with a Ferris Faculty Advisor or the Department Chair for academic advising prior to completing these courses.**
- All students earning a B.S. degree at Ferris State University must complete the Ferris State University *General Education Requirements*. Some of these general education requirements may have been completed as part of the associate degree, while others may be completed in addition to the associate degree at Kirtland or another accredited college/university prior to transfer to Ferris, and others can be completed after transferring to Ferris. **Note: Because of the timeline required for the HVACR program, it is necessary that students first check with a Ferris Faculty Advisor or the Department Chair for academic advising prior to completing these courses.**
- Students must complete a minimum of 30 credit hours at Ferris to meet graduation requirements.

Application Deadlines

It is recommended that students submit applications by January 15th prior to fall entry.

COSMETOLOGY DEGREE PARTNERSHIPS

College & University Contact Information:

Davenport University

Karen Aune, karen.aune@davenport.edu
989-705-3720

Kirtland Community College

Judith Grenkowitz, grenkowj@kirtland.edu
989-275-5000, ext. 219
Don Dyer, dverd@kirtland.edu
989-275-5000, ext. 231

BACHELOR OF BUSINESS ADMINISTRATION DEGREE

Applied Business

Davenport University

This program is specifically designed for those who have already attained an applied associate's degree. The distinctive feature of this program is its recognition of the expertise evidenced by the associate's degree. This associate's degree may be obtained at any accredited community college, junior college, or other institution that grants associate's degrees. Credits earned toward the associate's degree will then be accepted at Davenport University under the following conditions:

1. The applied associate's degree must include at least 24 semester hours (36 quarter hours) in a suitable major area of study not currently offered at Davenport University.
2. The 24 semester hours (36 quarter hours) can only be used as transfer credits in the specialty area of the BBA major.
3. All credits toward an associate's degree up to 64 semester hours (96 quarter hours) will be accepted.
4. Semester hours beyond 64 (96 quarter hours) will be accepted only if
 - a. They are equivalent to a Foundations of Excellence requirement or elective at Davenport, or;
 - b. They are equivalent to Foundations of Business courses at Davenport or
 - c. They are an acceptable substitute, as determined by the Dean or Registrar, for either a Foundations of Excellence or Foundations of Business requirement.
5. Students must take a minimum of 30 semester hours at Davenport to fulfill residency requirements. This includes at least 15 semester hours of their Foundations of Business requirements and the BUSN495 Business Planning Capstone course at Davenport.

CRIMINAL JUSTICE DEGREE PARTNERSHIPS

POLICE ACADEMY

3 + 1 Transfer Agreement – Alpena Community College
3 + 1 Transfer Agreement – Mid Michigan Community College
3 + 1 Transfer Agreement – North Central Michigan College

PARTNERSHIP PROGRAM

Alpena Community College

Contact: Michael Roy
989-358-7208
roym@ns.alpena.cc.mi.us

Mid Michigan Community College

Contact: Barney Ledford
989-773-6622, ext. 230
bledford.@midmich.edu

North Central Michigan College

Contact: James Carter
Phone # 231-439-6379
jcart@ncmc.cc.mi.us

Kirtland Community College

Contact: Jerry Boerema or Shawn Ott
989-275-5000, extension 323
boeremaj@kirtland.edu

Articulation agreements allow criminal justice students at Alpena Community College, Mid Michigan Community College, and North Central Michigan College to complete their general education and prerequisites at any of the three schools and then transfer to Kirtland for the police academy program. Upon completion, the student's academy credits are transferred back to their home institution, which then issues the appropriate associate degree.

Benefits for the students include the following:

- Students in the Harrison/Mt. Pleasant, Alpena, and Petoskey areas may complete their general education and prerequisite courses in their home area.
- Alpena Community College, Mid Michigan Community College, and North Central Michigan College students who are accepted into the police academy will pay Kirtland's in-district tuition rates.

Students should contact those listed for specific program information.

BACHELOR OF BUSINESS ADMINISTRATION DEGREE

College & University Contact Information:

Davenport University

Karen Aune, karen.aune@davenport.edu
989-705-3720

Franklin University

Thom Leiter, leitert@franklin.edu
1-888-341-6237, ext. 6057

Madonna University

Barry Sherman, bsherman@madonna.edu
1-800-852-4951, ext. 5546

Kirtland Community College

Jerry Boerema, boeremaj@kirtland.edu
989-275-5000, ext. 323
Shawn Ott, otts@kirtland.edu
989-275-5000, ext. 283

Public Safety & Security Management

Davenport University

This program is specifically designed for students who have attained an applied associate's degree in the area of public safety or security administration. With the major courses of the associate's degree serving as the application-based area of expertise in such disciplines as criminal justice, corrections or private security, students enrolled in the BBA in Public Safety and Security Management gain skills in business fundamentals combined with specific areas of management study unique to the field of safety and security. The distinct feature of this program is the body of course work that aids in preparing individuals to assume leadership roles in the growing industry of public safety and private security. Contact the Counseling Office for additional information regarding available transfer guides for this program.

BACHELOR OF SCIENCE DEGREE

Criminal Justice

Madonna University/Gaylord

Madonna University and Kirtland Community College have agreed that any student who has earned an Associate in Applied Science degree in criminal justice administration, pre-service, or corrections may transfer the identified credits toward a Bachelor of Science degree at Madonna University in Criminal Justice. Graduation requirements for students who follow this articulation are as follows:

- A MACRAO Satisfied associate degree in criminal justice administration, pre-service or corrections
- Completion of a program of study at Madonna University which is coordinated with the program completed at KCC
- A grade of 2.00 or better is required of courses to transfer to Madonna University
- KCC students are required to complete a minimum of seven semester hours in general education at Madonna University through a religious studies course and an upper-division literature course. Students must also meet all other requirements needed for a Bachelor of Science in Criminal Justice from Madonna University.

Public Safety Management

Franklin University

Are you a public safety professional looking to take your career to the next level? If you have hands-on training as a police officer, firefighter, or EMT, Franklin University's Public Safety Management Major will give you the management skills needed to set your career in motion. This innovative major enables you to receive credit for your training and enhance your existing technical abilities by incorporating communication skills, management training, and business leadership practices.

- Use strategic planning techniques to streamline public safety agency operations
- Enhance leadership and management abilities
- Sharpen written and verbal communication skills
- Learn and apply accounting and fiscal management principles to public safety
- Develop and demonstrate analytical and critical-thinking skills

Career Options Include

- **Fire or Police Administrator**
- EMT/EMS Coordinator
- Safety Specialist
- Homeland Security Professional

EDUCATION DEGREE PARTNERSHIPS

College & University Contact Information:

Central Michigan University
Marcie Otteman, ottemlmm@cmich.edu
or Bob Garcia, gardi1r@cmich.edu
989-774-3076

Spring Arbor University—Gaylord
Alisa Sackett, asackett@arbor.edu
989-705-3740

Kirtland Community College
Denise Kemp, kempd@kirtland.edu
989-275-5000, ext. 391
Marcell Romancky, romanckm@kirtland.edu
989-275-5000, ext. 290

BACHELOR OF ARTS DEGREE

Elementary Education

Spring Arbor University

An articulation agreement with Spring Arbor University facilitates transfer of credits from Kirtland Community College to the SAU-Gaylord Elementary Education program. SAU classes are held in the evenings and student-teaching placements are in northern Michigan. After students have completed their Associate Degree, opportunities exist to take additional Kirtland credits in order to fulfill degree requirements at Spring Arbor University.

BACHELOR OF SCIENCE DEGREES

Elementary/Secondary Education

Central Michigan University

See Kirtland Education Advisor for program information.

HEALTH CAREER DEGREE PARTNERSHIPS

College & University Contact Information:

Davenport University Karen Aune, karen.aune@davenport.edu 989-705-3720 Franklin University Thom Leiter, leitert@franklin.edu 1-888-341-6237, ext. 6057 Mid Michigan Community College John Skinner, Program Director jskinner@midmich.cc.mi.us 989-386-6646	Kirtland Community College Don Dyer, dyerd@kirtland.edu 989-275-5000, extension 231
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ASSOCIATE IN APPLIED SCIENCE DEGREE

Radiography

Mid Michigan Community College

The Radiography program is a collaborative program offered by an agreement between Kirtland Community College and Mid Michigan Community College. The program is designed to prepare graduates to function as members of the health team in hospitals, clinics, government and military installations, industry, and public health. In addition to classroom instruction and experience in the laboratory, the student will receive on-the-job practical education in radiology departments of local hospitals participating in the program.

The prerequisite and general education courses are taken at Kirtland Community College and can be completed in one year. The second year will be taken at Mid Michigan Community College. The third year will be a clinical internship at area hospitals. Program graduates are eligible to take the American Registry of Radiologic Technologists certification examination. Mid Michigan Community College confers the associate degree.

The collaborative program has many benefits for students at Kirtland including the following:

- Most general education and prerequisite courses can be taken at Kirtland. HUM-200 must be taken at Mid Michigan Community College.
- Mid Michigan has a limited number of reserved seats for qualified Kirtland students ready to be admitted into the program.
- Kirtland students who are accepted into the program and transfer to Mid Michigan for their radiography courses will pay in-district tuition at Mid Michigan.
- Kirtland students who are in the program and ready for their clinical internship in a hospital will be assigned to an in-district hospital.

Students should contact those listed for specific program information

BACHELOR OF BUSINESS ADMINISTRATION DEGREE

Health Services Administration

Davenport University

The Health Services Administration program prepares the graduate for entry-level administrative positions in various health care settings or organizations. Health services administration careers can include, but are not limited to working in integrated health care systems, retirement and long term care facilities, physicians' practices, community health organizations, health care associations and insurance carriers-third party administrators. Specialties are designed to assist students needing or desiring a more focused area of interest. Upon completion of the long term care specialty, students may be eligible to sit for the Nursing Home Administrator Licensure Examination. In addition, this degree prepares individuals interested in pursuing Davenport University's MBA program.

Credits for previous Allied Health course work or an associate's degree with an Allied Health credential (i.e., Registered Nurse, Medical Assistant) that are not the exact equivalent of Davenport University courses may be awarded, following consultation with the Associate Dean of the School of Health Professions.

BACHELOR OF SCIENCE DEGREES

Healthcare Management

Franklin University

Are you a healthcare professional looking to take your career to the next level? If you have clinical training but need the management skills to receive that promotion, Franklin University's Healthcare Management Major will give you what you need to advance your career. This innovative major will build upon your previous experience in direct patient care and expose you to current trends in healthcare delivery. You'll develop the expertise and managerial skill to determine which healthcare systems most effectively meet patient needs.

- Apply organizational management theories to a healthcare organization
- Use financial information to guide decision making and programmatic planning
- Improve a healthcare facility's ability to provide services
- Learn to maximize patient benefits by improving the healthcare organization business model

Career Options Include: Healthcare Systems Manager, Healthcare Administrator, Health Services Manager, Hospital Administrator and Practice Manager.

Medical Case Management

Davenport University

This program is designed to prepare the individual who is interested in entering or advancing in the area of medical case management. The student will learn the components of case management including assessing, planning, implementing, coordinating, monitoring, and evaluating the care of a client across the continuum of care. The program is open to nurses and other health professionals, as well as those with no health-related background.

Potential employment for medical case managers may include working with insurance providers, third party administrators, integrated health care systems, physicians' practices, rehabilitation agencies, legal firms or attorneys practicing in worker compensation and personal injury, government agencies, self insured organizations or as an independent consultant.

Credits for previous Allied Health course work or an associate's degree with an Allied Health credential (i.e., Registered Nurse, Medical Assistant) that are not the exact equivalent of Davenport University courses may be awarded following consultation with the Associate Dean of the School of Health Professions. This curriculum can prepare students for entry into the Davenport University's MBA program.

NURSE BSN (COMPLETION PROGRAM)

This program is designed for currently licensed registered nurses who are seeking a bachelor's degree in nursing. This program has received candidacy status by the National League for Nursing Accrediting Commission, Inc. The purpose of the bachelor's degree nursing program at Davenport University is to prepare the graduates to advance in the nursing profession through the use of critical thinking, advanced assessment skills, communication, collaborating practices, applied research, self-directed learning, leadership and management skills. This program prepares registered nurses for nursing practice of patients and their support systems across the continuum of care and in communities.

Preadmission Requirements:

- Must possess a current active unencumbered and unrestricted Registered Nurse License
- Must have at least a cumulative G.P.A. of 2.5 from previous nursing program

Students with an associate's degree, nursing major and a current RN license will be granted **Advanced Standing** for health related classes, all required biology, anatomy and physiology, microbiology and all associate's degree nursing courses. Advanced Standing is equal to 64 credit hours. *The Bachelor of Science in Nursing degree requirements must be met based on the catalog year of acceptance to the BSN Completion Program.*

INDUSTRIAL TECHNOLOGIES DEGREE PARTNERSHIPS

College & University Contact Information:

Davenport University

Karen Aune, karen.aune@davenport.edu
989-705-3720

Ferris State University

Shari Chamberlain, chambers@ferris.edu
1-800-4FERRIS

Gary Ovans, Chair—Manufacturing Department
College of Technology ovansg@ferris.edu
231-591-2511

Rich Goosen, Chair—Mechanical Design Department
College of Technology goosenr@ferris.edu
231-591-2755

Jeff Carney, Chair—Welding Department
College of Technology carneyj@ferris.edu
231-591-2511

Kirtland Community College

Don Dyer, dyerd@kirtland.edu
989-275-5000, ext. 231

BACHELOR OF BUSINESS ADMINISTRATION DEGREE

Applied Business

Davenport University

This program is specifically designed for those who have already attained an applied associate's degree. The distinctive feature of this program is its recognition of the expertise evidenced by the associate's degree. This associate's degree may be obtained at any accredited community college, junior college, or other institution that grants associate's degrees. Credits earned toward the associate's degree will then be accepted at Davenport University under the following conditions:

1. The applied associate's degree must include at least 24 semester hours (36 quarter hours) in a suitable major area of study not currently offered at Davenport University.
2. The 24 semester hours (36 quarter hours) can only be used as transfer credits in the specialty area of the BBA major.
3. All credits toward an associate's degree up to 64 semester hours (96 quarter hours) will be accepted.
4. Semester hours beyond 64 (96 quarter hours) will be accepted only if
 - a. They are equivalent to a Foundations of Excellence requirement or elective at Davenport, or;
 - b. They are equivalent to Foundations of Business courses at Davenport or
 - c. They are an acceptable substitute, as determined by the Dean or Registrar, for either a Foundations of Excellence or Foundations of Business requirement.
5. Students must take a minimum of 30 semester hours at Davenport to fulfill residency requirements. This includes at least 15 semester hours of their Foundations of Business requirements and the BUSN495 Business Planning Capstone course at Davenport.

BACHELOR OF SCIENCE DEGREES

Applied Management

Franklin University

The Applied Management Degree is a collaborative program offered by an agreement between Kirtland Community College and Franklin University. The program is designed to prepare graduates to pursue careers in management, business, industry, government, and non-profit organizations. In addition to classroom instruction, the student will also have an option to receive on-the-job practical education through college-provided internships.

To enter the Kirtland Community College/Franklin University program, students must meet one of the following admissions criteria:

- Have earned an Associate in Business Administration or an Associate in Applied Science - Business Management
- Have earned any other Associate in Arts, Associate in Science, or Associate in Applied Science degree
- Have completed 60 semester/90 quarter credit hours and earned a 2.5 GPA

The final year of courses are taken online through Franklin University. Students need to work with a Franklin advisor to determine exactly what courses will be taken online.

The collaborative program has many benefits for students at Kirtland including the following:

- Students never have to leave home or northern Michigan because Franklin courses can be taken online. Many of the required Kirtland courses are also offered online. This is a great program for those that may find it difficult to travel.
- Advisors at both schools are well trained to assist students in planning their program.

Manufacturing Engineering Technology

Ferris State University

Good manufacturing engineers can determine how to make their company's products better, faster, safer, and less expensive than competitors can. These abilities are always in demand, and the MFGE program at Ferris gives you the skills to command an excellent starting salary. You will also get to work with state-of-the-art computers and equipment while you are taking classes, plus get more valuable team and project experience than almost anywhere else.

Admission Requirements for Transfer Students:

1. Associate degree in a Manufacturing based Technology
2. 2.75 GPA in major courses, or faculty approval
3. MTH 13000 & MTH 14000 required
4. PHY 20101 and 20102 required

It is recommended that students submit applications by January 15th prior to fall entry.

All students earning a B.S. degree at Ferris State University must complete the Ferris State University General Education Requirements, some of which may be completed as part of your associate degree or which can be completed after transferring to Ferris. It is suggested that you consult with your Ferris Faculty Advisor for academic advising prior to completing these courses.

Students must complete a minimum of 30 credit hours at Ferris to meet graduation requirements.

Product Design Engineering Technology

Ferris State University

A product designer begins with a concept and then transforms it into a working design that specifies the size, shape, style, dimensions, and materials needed. Because this skill is needed for the production of millions of industrial and consumer goods, designers are in great demand. Their knowledge of design, engineering analysis, manufacturing processes, and communication techniques are valued in industries across the United States.

Admission Requirements for Transfer Students:

1. Associate degree in Mechanical Engineering, CAD Drafting, Pre-Engineering or similar approved programs.
2. 2.75 GPA in major coursework
3. 2.5 GPA in math
4. MTH 13000 & MTH 14000 required
5. PHY 20101 and 20102 required

It is recommended that students submit applications by January 15th prior to fall entry.

All students earning a B.S. degree at Ferris State University must complete the Ferris State University General Education Requirements, some of which may be completed as part of your associate degree or which can be completed after transferring to Ferris. It is suggested that you consult with your Ferris Faculty Advisor for academic advising prior to completing these courses.

Students must complete a minimum of 30 credit hours at Ferris to meet graduation requirements.

Welding Engineering Technology

Ferris State University

The welding program is designed to produce plant-level welding engineering technology graduates who are involved in the concept, design, and engineering of weldments and implementation of welding process. This overall knowledge of weldments and the ability to engineer welding and joining systems produces graduates who are in great demand and highly compensated. It is recommended that students submit applications by January 15th prior to fall entry.

Admission Requirements for Transfer Students:

1. Associate degree in Welding Technology.
2. Minimum of 3.0 GPA 2.5 GPA in math
3. MTH 14000 required

All students earning a B.S. degree at Ferris State University must complete the Ferris State University General Education Requirements, some of which may be completed as part of your associate degree or which can be completed after transferring to Ferris. It is suggested that you consult with your Ferris Faculty Advisor for academic advising prior to completing these courses. Students must complete a minimum of 30 credit hours at Ferris to meet graduation requirements.

OFFICE INFORMATION SYSTEMS DEGREE PARTNERSHIPS

College & University Contact Information:

Davenport University

Karen Aune, karen.aune@davenport.edu
989-705-3720

Franklin University

Thom Leiter, leiter@franklin.edu
1-888-341-6237, ext. 6057

Kirtland Community College

Don Dyer, dyerd@kirtland.edu
989-275-5000, ext. 231

BACHELOR OF BUSINESS ADMINISTRATION DEGREES

Applied Business

Davenport University

This program is specifically designed for those who have already attained an applied associate's degree. The distinctive feature of this program is its recognition of the expertise evidenced by the associate's degree earned at Kirtland Community College. Contact your advisor for information on the transferability of credits from Kirtland to this Davenport University program. Students must take a minimum of 30 semester hours at Davenport to fulfill residency requirements, including at least 15 semester hours of their Foundations of Business requirements and the BUSN495 Business Planning Capstone course at Davenport.

Health Services Administration

Davenport University

The Health Services Administration program prepares the graduate for entry-level administrative positions in various health care settings or organizations. Health services administration careers can include, but are not limited to working in integrated health care systems, retirement and long term care facilities, physicians' practices, community health organizations, health care associations and insurance carriers-third party administrators. Specialties are designed to assist students needing or desiring a more focused area of interest. Upon completion of the long term care specialty, students may be eligible to sit for the Nursing Home Administrator Licensure Examination. In addition, this degree prepares individuals interested in pursuing Davenport University's MBA program.

Credits for previous Allied Health course work or an associate's degree with an Allied Health credential (i.e., Registered Nurse, Medical Assistant) that are not the exact equivalent of Davenport University courses may be awarded, following consultation with the Associate Dean of the School of Health Professions.

BACHELOR OF SCIENCE DEGREES

Applied Management

Franklin University

The Applied Management Degree is a collaborative program offered by an agreement between Kirtland Community College and Franklin University. The program is designed to prepare graduates to pursue careers in management, business, industry, government, and non-profit organizations. In addition to classroom instruction, the student will also have an option to receive on-the-job practical education through college-provided internships.

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- Students never have to leave home or northern Michigan because Franklin courses can be taken online. Many of the required Kirtland courses are also offered online. This is a great program for those that may find it difficult to travel.
- Advisors at both schools are well trained to assist students in planning their program.

Healthcare Management

Franklin University

Are you a healthcare professional looking to take your career to the next level? If you have clinical training but need the management skills to receive that promotion, Franklin University's Healthcare Management Major will give you what you need to advance your career. This innovative major will build upon your previous experience in direct patient care and expose you to current trends in healthcare delivery. You'll develop the expertise and managerial skill to determine which healthcare systems most effectively meet patient needs.

- Apply organizational management theories to a healthcare organization
- Use financial information to guide decision making and programmatic planning
- Improve a healthcare facility's ability to provide services
- Learn to maximize patient benefits by improving the healthcare organization business model

Career Options Include: Healthcare Systems Manager, Healthcare Administrator, Health Services Manager, Hospital Administrator and Practice Manager.

Medical Case Management

Davenport University

This program is designed to prepare the individual who is interested in entering or advancing in the area of medical case management. The student will learn the components of case management including assessing, planning, implementing, coordinating, monitoring, and evaluating the care of a client across the continuum of care. The program is open to nurses and other health professionals, as well as those with no health-related background.

Potential employment for medical case managers may include working with insurance providers, third party administrators, integrated health care systems, physicians' practices, rehabilitation agencies, legal firms or attorneys practicing in worker compensation and personal injury, government agencies, self insured organizations or as an independent consultant.

Credits for previous Allied Health course work or an associate's degree with an Allied Health credential (i.e., Registered Nurse, Medical Assistant) that are not the exact equivalent of Davenport University courses may be awarded following consultation with the Associate Dean of the School of Health Professions. This curriculum can prepare students for entry into the Davenport University's MBA program.

TECHNOLOGY MANAGEMENT DEGREE PARTNERSHIPS

College & University Contact Information:

Davenport University

Karen Aune, karen.aune@davenport.edu
989-705-3720

Kirtland Community College

Don Dyer, dyerd@kirtland.edu
989-275-5000, ext. 231

BACHELOR OF BUSINESS ADMINISTRATION DEGREE

Applied Business**Davenport University**

This program is specifically designed for those who have already attained an applied associate's degree. The distinctive feature of this program is its recognition of the expertise evidenced by the associate's degree earned at Kirtland Community College. Contact your advisor for information on the transferability of credits from Kirtland to this Davenport University program. Students must take a minimum of 30 semester hours at Davenport to fulfill residency requirements, including at least 15 semester hours of their Foundations of Business requirements and the BUSN495 Business Planning Capstone course at Davenport.

OTHER TRANSFER PARTNERSHIPS

Pre-Chiropractic

Palmer College of Chiropractic

College Contact Information:

Palmer College of Chiropractic 1000 Brady Street Davenport, IA 52803 (563)884-5704	Kirtland Community College Don Dyer, dyerd@kirtland.edu 989-275-5000, ext. 231
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For admissions to Palmer College of Chiropractic each student must:

1. Apply one year in advance of intended starting date.
2. The minimum cumulative grade point average in the prerequisite courses and the required 90 semester hours for entrance to Palmer College of Chiropractic is 2.50 on a 4.00 grading scale. Preference will be given to students earning a 2.75 or better. The lowest grade a student may earn in any of the required prerequisite courses is a "C" (2.00).
3. Complete at least eight courses at Kirtland Community College
4. Satisfy all other requirements as prescribed in the Palmer College of Chiropractic catalog.

Listed below is the recommended course of study to meet the prerequisite requirements needed to enter Palmer College of Chiropractic. Other course selections may be acceptable; however, please check with the admissions office before registering for classes other than those listed.

The courses listed below do not comprise a degree at Kirtland.

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Biology	8	• BIO-11500 – Anatomy and Physiology I (4) • BIO-11600 – Anatomy and Physiology II (4)
Chemistry	10	• CHE-10101/02 – General Chemistry I with Lab (4/1) • CHE-10201/02 – General Chemistry II with Lab (4/1) • CHE-20101/02 – Organic Chemistry I with Lab (4/1) • CHE-20201/02 – Organic Chemistry II with Lab (4/1)
Physics	10	• PHY-20101/02 –Physics I with Trigonometry and Lab (4/1) • PHY-20201/02 –Physics II with Trigonometry and Lab (4/1)
Communication/Writing/Speech	6	• Literature courses are not recommended (6 or more)
Humanities and Social Sciences	18	• Select courses from: Anthropology, Classics, Communications, Criminal Justice, Economics, Education, English, Fine Arts, Foreign Languages, Government, History, Psychology, Philosophy, Political Science, Religion, and Sociology

THIS PROGRAM IS SUBJECT TO REVISION DUE TO ADDITIONS AND/OR DELETIONS IN THE PALMER COLLEGE BULLETIN.

COURSE DESCRIPTIONS

This portion of the 2008-2009 College Catalog lists all courses offered by Kirtland Community College. Courses are separated into their respective subject areas. The following example displays how to properly interpret a course description:

EXAMPLE:

CHE-10003	Chemical Science Course description would be inserted here. Prerequisite: DEV-07300 or Corequisite: DEV-07300 <i>(Credit Type)</i>	(F,W)	4(3-2)
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Chemical Science presents the elementary principles of inorganic, physical, and organic chemistry. It is intended to introduce college chemistry, or to satisfy course requirements in technical fields such as nursing. **Prerequisite or corequisite:** DEV-07300.

1. **Course Number:** Composed of three letters and a number. The letters identify a course by subject area. In this case, CHE is for Chemistry.
2. **Course Title:** Identifies a course by name.
3. **Course Availability:** The letter code designates the semester in which the course is usually offered: **S** = Summer; **W** = Winter; **F** = Fall; and **V** = Variable (occasionally or on demand if sufficient enrollment develops).
4. **Credit Hours:** The number of credits a course is assigned toward graduation.
5. **Lecture-Laboratory Hours:** During a 15-week semester, the first number refers to the hours the student will spend per week in a classroom lecture. The second number refers to the instructional hours that a student will spend in a laboratory per week. Some clinical nursing classes list a third number that specifies the number of hours spent in a clinical setting each week. The addition of these figures will produce the total number of contact hours the student will spend per week in the class over a 15-week semester.
6. **Course Description:** An explanation of the knowledge and skills gained by successful completion of the course.
7. **Prerequisite:** Requirement(s) that must be met or course(s) that must be taken before enrolling in a specific course.
8. **Corequisite:** Course that must be taken at the same time as the desired course.
9. **Distribution:** Some programs require courses of a specific distribution type. The category in which a course may be used is listed in italics.

ACCOUNTING (ACC)

ACC 10600 Fund of Accounting (F) 4

This course is a study of the fundamental principles of accounting. Emphasis is placed on the accounting cycle from journal entries to the preparation of financial statements for both the service and merchandising firm, including payroll and accounting for cash.

ACC 12100 Accounting Principles I (F) 4 (4-0)

This course provides an introduction to fundamental accounting principles. The principles are applied to the recording of transactions as assets, liabilities, owner's equity, income and expenses. The recorded transactions are then used in the preparation of financial statements - balance sheet, income statement and statement of owner's equity for sole proprietorships and partnerships. Prerequisite: DEV-07300 or competency.

ACC 12200 Accounting Principles II (W) 4 (4-0)

This course builds on the fundamental accounting principles taught in Accounting 12100. The class covers the recording of corporate stock and dividend transactions and the proper presentation of the stockholder's equity section of the balance sheet. The course introduces management accounting concepts through analysis of financial statements, preparation of the statement of cash flows, the introduction to cost accounting concepts and an understanding of the need for and development of budgets. Prerequisite: ACC-12100.

ACC 12500 Computer Accounting w/QuickBooks (W) 4 (4-0)

This course is organized into three sections. The first section introduces students to the computer, Windows, and QuickBooks accounting for a service business. The second section focuses on merchandising businesses. The third section concentrates on payroll and creating a company using QuickBooks. Accounting concepts and their relationship to QuickBooks Pro 2000 are presented in each chapter. In addition to accounting concepts, students use a fictitious company and receive hands-on training in the use of QuickBooks Pro within each chapter.

ACC 13100 Bookkeeping (V) 4 (4-0)

This course provides an understanding of bookkeeping topics that include double-entry bookkeeping, business math, depreciation and inventory methods, payroll and payroll taxes, billing, and internal control. Prerequisite: Fundamentals of Accounting or Accounting 1 or permission of the instructor.

ALLIED HEALTH (ALH)

2 (2-0)

This course is a survey study in the word-building system for medical terms. It covers word roots, combining forms, prefixes, suffixes, and medical word-building and decoding. Emphasis is placed on the correct spelling of terms, as well as definition and usage according to medical specialties. This course can be utilized by students who are planning a health career.

6 (3-5)

This course will prepare students to provide competent, evidence-based assistive nursing care in a variety of healthcare settings, with primary focus on the elderly. Emphasis will be placed on effective communication and interpersonal skills; infection control measures; safety and emergency procedures; and the promotion of residents' independence and rights. Successful completion of this course will prepare students to be eligible for the state competency evaluation exam and placement on state Nurse Aide Registry. Prerequisite: Physical Examination, TB Test, Uniform, and clean criminal background.

3 (3-0)

This survey course focuses on basic diseases, components of diagnosis, etiology, common manifestations, and treatment. This course is utilized by students who are planning a health career. Prerequisite: ALH-10101 or permission of instructor, BIO-10701, and BIO- 10702.

1 (1-0)

This course provides an introduction to the health care professional's role, ethical dilemmas faced in the field, and legal responsibilities in individuals' roles and in society.

1 (0.5-0.5)

This course provides information and practice for appropriate response in the event of an emergency. Students will gain knowledge and practice in professional CPR (one-man, two- man, infant, child, AED, and choking victim) and basic first aid.

13 (11-2)

This course provides the foundation for the paramedic program and begins to prepare students to function in emergency medical care within the scope and responsibilities of the paramedic. Hands-on practical skills training is included. Prerequisite or corequisite: Licensed EMT or completion of EMT program and eligible for licensure.

10 (7-7)

This course prepares students to function in emergency medical services within the scope and responsibilities of a Basic EMT. Hands-on skills lab practice and structured clinical experiences at hospital emergency rooms and on ambulances is provided. Prerequisites: Valid driver's license, no felony convictions, completed health form, and immunizations prior to clinical.

13 (9-8)

This course is the second part of the paramedic program. Hands-on practical skills training is included. Prerequisite: ALH-21500.

16 (11-11)

This course is the third part of the paramedic program. It provides structured clinical experience in pre-hospital and hospital settings. Prerequisite: ALH-22500.

7 (0-7)

This course is the fourth part of the paramedic program. Further theory, hands-on training, and structured clinical experiences are included. Prerequisite: ALH-23500.

ART (ART)

ART 10000 Art History I (F) 3 (3-0)

This course surveys the major developments, movements, and philosophies of the visual arts from the Prehistoric to the Renaissance period by means of lecture, slides, and videos. (Humanities Credit)

ART 10103 Art History II (W) 3 (3-0)

This course provides a survey of the major developments, movements, and philosophies of the visual arts from the Renaissance period to the present, by means of lecture, slides, and videos. (Humanities Credit)

ART 10500 Intro to Design (F,W) 3 (0-4)

In this course, students will gain an understanding of the relationships between shape, form, pattern, texture, and color. By using computers, the student will create compositions dealing with biomorphic and rectilinear shapes. This course is intended to give the student a basic knowledge of the principles of composition and the elements of design and the role they play in the creative process. (Humanities Credit)

ART 10600 Fund of Drawing I (F,W) 3 (0-4)

This course will stress the process of drawing as an imitation of nature through eye-hand coordination. Drawings are generated exclusively from still lifes as subject matter. Emphasis is on linear construction with a concern for accurate proportion and simple positive-negative/figure-ground relationships. Value structure is introduced after an initial but solid understanding of sighting and measuring, composition, and spatial relationships has been developed. Media is limited to achromatic/monochromatic dry drawing materials. (Humanities Credit)

ART 10700 Painting I (F,W) 3 (0-4)

This course will stress the process of painting as an imitation of nature through eye-hand coordination. Paintings are generated from photographs and still lifes (observed objects) as subject matter. Emphasis is on the exploration of techniques with a concern for accurate proportion, simple positive-negative/figure-ground relationships, and color dynamics. Technical realism is introduced after an initial but solid understanding of color theory, compositions, and spatial relations has been developed. Media is limited to full-spectral wet oil materials. (Humanities Credit)

ART 10800 Ceramics I (F,W,S) 3 (0-4)

This course provides an introduction to clay and its characteristics as a creative medium in utilitarian and non-utilitarian forms through hand-built and wheel-thrown objects. (Humanities Credit)

ART 11000 Watercolors (S) 3 (0-4)

This course will stress the process of painting as an imitation of nature through eye-hand coordination. Paintings are generated from photographs and still lifes (observed objects) as subject matter. Emphasis is on the exploration of techniques with a concern for accurate proportion, simple positive-negative/figure-ground relationships, and color dynamics. Technical realism is introduced after an initial but solid understanding of color theory, compositions, and spatial relations has been developed. Media is limited to full-spectral wet watercolor materials. (Humanities Credit)

ART 11400 Sculpture I (F,W) 3 (0-4)

Students will explore the processes and materials of sculpture (clay, stone, wood, plaster, metals, and other media) with an emphasis on the concepts of three-dimensional form and space. (Humanities Credit)

ART 11500 Photography I (F,W) 3 (2-2)

This course offers an introduction to the basic technical skills of photography as a creative medium for personal expression. Students must provide a 35mm camera. (Humanities Credit)

ART 19000 Digital Communications I (F,W) 3 (1-3)

This course is designed to offer a thorough grounding in the language and process of graphic design, from comps to finished mechanicals, with an emphasis on fine typography and an understanding of Photoshop imaging techniques. (Humanities Credit)

- ART 20600 Drawing II (F,W) 3 (0-4)**
 This course stresses the process of drawing as an imitation of nature through eye-hand coordination. Drawings are generated from still life and photographs as subject matter. In Drawing I, emphasis is on linear construction with a concern for accurate proportion and simple positive-negative/figure-ground relationships. Emphasis in Drawing II is on value structure and the development of the realistic rendering techniques. Students should show a concentration in experimental media, techniques, spatial relationships, and conceptual processes of drawing. Prerequisite: ART-10600. (Humanities Credit)
- ART 20700 Painting II (F,W) 3 (0-4)**
 Painting II will continue to stress the process of painting as an imitation of nature through eye-hand coordination. Paintings are generated from photographs and still lifes as subject matter. Students embark on a wider exploration of techniques with a concern for accurate proportion, simple positive-negative/figure-ground relationships, and color dynamics. Technical realism is one approach used to develop a continuing understanding of color theory, composition, and spatial relationships. Emphasis is on the student's personal development and refinement of personal expression. Media is limited to full-spectral wet oil materials. Prerequisite: ART-10700. (Humanities Credit)
- ART 20800 Ceramics II (F,W,S) 3 (0-4)**
 This course offers advanced study of forms in clay with emphasis on wheel-thrown objects, glaze calculations, and kiln procedures. Prerequisite: ART-10800. (Humanities Credit)
- ART 21400 Sculpture II (F,W) 3 (0-4)**
 Students will be exposed to a broad variety of materials and techniques. Greater emphasis will be placed on scale and style. Prerequisite: ART-11400. (Humanities Credit)
- ART 21500 Photography II (F,W) 3 (2-2)**
 This course provides creative work for the advanced student in developing a photography portfolio. This course will expand upon the techniques and skills learned in Photography I. Students will explore a variety of films and specialized processing techniques, as well as creative darkroom printing procedures. Students must provide a 35mm camera. Prerequisite: ART-11500. (Humanities Credit)
- ART 21800 Ceramics (Studio Problems) (F,W,S) 3 (0-4)**
 Students will be expected to begin developing a style, concentrating their studies on specific forming techniques. A greater emphasis will be put on formulation of glazes and operating of kilns. Prerequisite: ART-20800. (Humanities Credit)
- ART 22400 Advanced Sculpture I (F,W) 3 (0-4)**
 This course will allow students to intensify their studies of techniques briefly touched on in Sculpture I and II. Each student will be encouraged to explore how personal issues influence the development of his/her own style. Prerequisite: ART-21400. (Humanities Credit)
- ART 22500 Intro to Color Photography (F,W) 3 (0-4)**
 By using color transparency film, computers, and/or color negative film, students will explore the use of color as a compositional element in photography. Prerequisite: ART-11500. (Humanities Credit)
- ART 22800 Ceramics (Studio Operations) (F,W,S) 3 (0-4)**
 This course will be devoted to polishing the students' skills in all areas. Great attention will be given to kiln operation, glazing techniques, mould making, and kiln and studio equipment fabrication. Prerequisite: ART-21800. (Humanities Credit)
- ART 23400 Advanced Sculpture II (F,W) 3 (0-4)**
 During this course, students will pursue their own particular interests. Students will be encouraged to experiment with different media and ideas. Prerequisite: ART-22400. (Humanities Credit)
- ART 23500 Digital Communications II (F,W) 3 (1-3)**
 Digital Communications II teaches advanced page layout using the industry standard software QuarkXPress. Specifically, XPress Tag (which allows the student to use a favorite word processor to completely format a QuarkXPress document), books and synchronization (which allows the student to split large Quark files into several smaller files), and indexing with an indexing Xtension. Prerequisite: ART-19000. (Humanities Credit)

ART 25000	Illustration I	(F,W)	3 (1-3)
This is an introductory course in the basic black, white, and color media illustration techniques with exploration in figurative drawing, media techniques, color and composition, spatial relationships, and conceptual progress of page layout. Illustration I will utilize the knowledge gained in Fundamentals of Drawing I to produce artwork that tells a story or expresses an idea. Artwork is generated by the media available to the student that best fits the idea, such as graphite, charcoal, ink, digital, photography, paint, colored pencil, etc. The ultimate goal in illustration is to create work that can be used for publication, whether magazine, book, brochure, etc. Prerequisite: ART-10600. (Humanities Credit)			
ART 26000	Illustration II	(F,W)	3 (1-3)
Emphasis will be placed on the exploration of color media and processes within specific illustration assignments. Problem-solving is encouraged through creative investigation. Prerequisite: ART-25000. (Humanities Credit)			
ART 27504	Advanced Drawing	(F,W)	3 (1-3)
This course continues the elements of Drawing II and emphasizes independent problem-solving, refinement of technical skills and the development of conceptualization processes. (Humanities Credit)			
ART 27531	Rendering	(F,W)	3
Course description not currently available. Please contact instructor for more information.			
ART 27532	Photo Studio Problems	(F,W)	3
Course description not currently available. Please contact instructor for more information.			
ART 27533	Watercolors II	(S)	3 (1-3)
An advanced course in the basic painting sequence, Watercolors II will continue to stress the process of painting as an imitation of nature through eye-hand coordination. Students embark on a wider exploration of techniques with a concern for accurate proportions, simple positive-negative/figure-ground relationships, and color dynamics. Technical realism is one approach to create with a continuing understanding of color theory, composition, and spatial relationships. Emphasis is on the student's personal development and refinement of personal expression. Media is limited to full-spectral watercolor materials. Prerequisite: ART-11000 (Humanities Credit)			
ART 27545	Computer Generated Images I	(F,W)	3 (1-3)
In this course, students will learn the fundamental concepts and features of Adobe Photoshop. These concepts include photo editing and retouching, color correction, layer basics, and special effects. (Humanities Credit)			
ART 27546	Computer Generated Images II	(F,W)	3 (1-3)
Building on the techniques learned in ART-27545, this course teaches advanced techniques used by professional graphic artists and photographers. Prerequisite: ART-27545. (Humanities Credit)			
ART 27550	Digital Darkroom	(F,W)	3 (1-3)
Through the use of conventional cameras/processes and their digital counterparts, students will learn to scan, edit, manipulate, and print photographic images. (Humanities Credit)			
ART 27553	Adv Black & White Photography	(F,W)	3 (1-3)
Students will draw on skills acquired in Photography I and II to develop and polish a personal style. Assignments will be developed to aid the student in pursuing their own unique goals. Prerequisite: ART-21500. (Humanities Credit)			
ART 27565	Comic Book Illustration	(F,W)	3 (1-3)
This course provides a basic introduction to comic book illustration, with exploration in figure drawing, media, techniques, spatial relationships, and the conceptual progress of page layout. (Humanities Credit)			
ART 27566	Computer Generated Images III	(F,W)	3 (1-3)
Building on the fundamentals learned in ART-27545 and ART-27546, this course explores the advanced type techniques and effects, layout, and design. Prerequisite: ART-27546. (Humanities Credit)			
ART 27571	Computer Animation I	(F,W)	3 (1-3)
Computer Animation I is an introductory study of the three-dimensional computer images and animation. The class will use 3D Studio to create three-dimensional imagery, apply texture maps, and lighting effects. Several animation techniques will also be studied. Students will meet in small groups to discuss lessons and activities. (Humanities Credit)			

ART 27573	Computer Animation II	(F,W)	3
This course further develops the student's skill in 3D Studio Max. It will emphasize 'realistic' rendering by means of developing the student's conceptual and technical understanding of effective texture and lighting.			
ART 27575	DS-Computer Animation III	(F,W)	3
This course focuses on advanced techniques for animators. Both classical animation and new digital skills and techniques will be covered with an emphasis on the situations that are best suited for the student's ultimate goal in their work.			
ART 27578	Computer Generated Images IV	(F,W)	3 (1-3)
This course continues the exploration of advanced type techniques and effects, layout, & design. Prerequisite: ART-27566 (Humanities Credit)			
ART 27581	Children's Book Illustration	(F,W)	3 (1-3)
This course provides a basic introduction to aesthetic principles, including color and composition, through a variety of materials, with emphasis on media and techniques for children's storybooks. (Humanities Credit)			
ART 27587	Painting IV	(F,W)	3 (1-3)
Emphasis will be placed on the student's ability to develop ideas, themes, and motifs of personal significance and the formal, technical skills to successfully execute his/her work. The course will also examine important theoretical and aesthetic issues related to art and will review major figures in contemporary painting. Prerequisite: ART-21600. (Humanities Credit)			
ART 27590	Watercolors III	(S)	3 (1-3)
An advanced course in the painting sequence, Watercolors III will emphasize individual development and refinement of personal expression in various approaches to painting. Students embark on a wider exploration of techniques with concern for accurate proportions, positive-negative/figure-ground relationships, and color dynamics while finding the artist within. Realism is only one approach to creating with a continuing understanding of color theory, composition, and spatial relationships. Prerequisite: ART-27533. (Humanities Credit)			
ART 27598	Portfolio II	(F,W)	3
This course continues the elements of Portfolio to develop a unified body of work.			
ART 27611	Rendering II	(F,W)	3 (1-3)
This course continues the elements of Rendering in superrealism. (Humanities Credit)			
ART 28000	Portfolio	(F,W)	3 (3-1)
This is an advanced course in portfolio preparation. It will stress the process of preparing an intensive portfolio for the artist's market. Résumés and artist's statements are written to develop an initial but solid understanding of the artist's work.			

ASTRONOMY (AST)

3 (0-3)

1 (0-2)

Introducing the techniques for mapping and measuring of the physical universe, and become familiar with the night and day skies. Develop understanding of the mechanisms of the universe. Corequisite: AST-10101. (Science credit)

AUTOMOTIVE (AUT)

AUT 16100	Engine Fundamentals & Overhaul	(W)	4 (3-3)
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This course provides an introduction to design, operation, troubleshooting, and service procedures of modern gasoline engines. The student will participate in disassembly, measurement, inspection, and reassembly of engine components. Use of technical data and service procedures will be stressed. Prerequisite: AUT-16302 or instructor's permission.

AUT 16201	Fuel Systems & Emission Control	(W)	4 (3-3)
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This lecture/lab course is designed to provide instruction in fundamentals, construction, operation, troubleshooting, and servicing of the components of the fuel and emission control systems. Students will participate in disassembly and reassembly of components and fuel systems and in emission control testing. Prerequisite: AUT-16401 or instructor's permission.

AUT 16302	Automotive Fundamentals	(F)	4 (2-3)
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This is a lecture/lab course designed to familiarize the student with the automotive unit, design, production, operating, testing, servicing, and job opportunities. Technician certification will be covered on the state and national levels. General ethics at school, on and off the job, along with sexual harassment education, will also be addressed.

AUT 16401	Basic Electricity	(F)	3 (2-2)
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This electrical course is designed as a prerequisite for automotive electrical classes. Areas of instruction will cover basic electricity, magnetism, fundamentals of batteries, starting motors, charging systems, ignition systems, electrical accessories, and basic wiring. Prerequisite: DEV-06300.

AUT 16801	Automotive Electrical Systems	(W)	4 (3-3)
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In this course, students will develop technical knowledge and skills necessary to service and diagnose modern electrical systems. Emphasis will be placed on electrical testing techniques and use of electrical testing equipment. Instruction and lab work will cover chassis wiring, electrical accessories, batteries, starters, charging systems, and ignition system service. Prerequisite: AUT-16401 or instructor's permission.

AUT 17200	Intro to Diesel Service	(F)	4 (3-3)
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This lecture/lab course is designed to teach students the fundamentals of Diesel Technology. The curriculum is currently geared toward instructing in the repair and maintenance of diesel engine powered vehicles (cars and light duty trucks) including preventative maintenance techniques; diagnosing/troubleshooting; assembly/disassembly of engines, electronic fuel systems, power trains; diagnostic and other essential skills to perform required tasks. Crossover opportunities exist in the automotive, passenger car and truck technician field for those who complete diesel technician training. Prerequisite: AUT 16302 or instructor's permission.

AUT 17703	Automotive Braking Systems	(F)	4 (3-3)
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This course is designed to provide instruction and skill development in automotive brake system theory and service. Students will develop skills and technical knowledge in the evolution of operation, theory, diagnosis, and repair of conventional and modern computer-controlled anti-lock braking systems. Corequisite: AUT-16302 or instructor's permission.

AUT 19100	Auto Body Internship I	(F)	5 (0-5)
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This is the first in a sequence of two courses required for completion of the Auto Body Specialist certificate program. The student is trained at an appropriate work site in the community. A tailored training plan for the student is designed by the program coordinator and is administered at the work site. Monitoring and evaluation of the student's progress is performed on a regular basis by the supervisor at the work site and the program coordinator. Prerequisite: Admission to Auto Body internship program. Corerequisite: 8-9 credits of appropriate electives and instructor permission.

AUT 19200	Auto Body Internship II	(W)	5 (0-5)
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This is the second in a sequence of two courses required for completion for the Auto Body Specialist program. The students receives advanced training at an appropriate work site in the community in accordance with the same requirements as AUT19100. Prerequisite: Successful completion of AUT1910 and instructor permission.

- AUT 20402 Intro to Auto Service Management (W) 2 (2-0)**
 This course is a study of facility licensing and management, with coverage of customer relations, promotional techniques, ethics, sexual harassment issues, job-seeking skills, and the laws of the State of Michigan as they apply to the automotive repair industry. The subjects of warranty processing, expense control, productivity, and time labor standards are defined and studied. Employee compensation and incentives, along with job opportunities and classifications, are also discussed and identified. Prerequisite: AUT-16302 or instructor permission.
- AUT 20403 Advanced Auto Service Management (W) 1**
 This course is a study of management techniques which are less tangible than previously covered in AUT-20402. It includes administrative leadership functions, stress management, the employee acquisition and dismissal process, and motivational techniques. Prerequisite: ENG10303. Prerequisite or corequisite: AUT20402.
- AUT 20404 Auto Service Management (W) 3 (3-0)**
 This course includes AUT-20402, Introduction to Automotive Service Management, and additionally studies management techniques, which are less tangible. It includes administrative leadership functions, stress management, the employee acquisition and dismissal process, and motivational techniques. Prerequisites: AUT-16302, and ENG-10303.
- AUT 21800 Automatic Transmissions (F) 4 (2-4)**
 In this lecture/lab course, students are prepared to service, diagnose, and overhaul commonly used automatic transmissions and transaxles. Emphasis will be placed on principles of operation, model variations, servicing techniques, and troubleshooting procedures. Prerequisite: AUT-16302 or instructor's permission.
- AUT 23101 Auto Service Area-Chassis (W) 4 (0-6)**
 This is a specialty service lab for students pursuing the Chassis Specialist certificate. Prerequisites: AUT-16201, AUT-16302, and AUT-17702. Corequisite: AUT-16500.
- AUT 23102 Auto Service Area-Powertrain (W) 4 (0-6)**
 This is a specialty service lab for students pursuing the Powertrain Specialist certificate. Prerequisites: AUT-17702 and 17901. Corequisite: AUT-16100.
- AUT 23103 Auto Service Area-Electrical (W) 4 (0-6)**
 This is a specialty service lab for students pursuing the Electrical Specialist certificate. Prerequisites: AUT-16201, AUT-16302, AUT-16401, AUT-16801, and AUT-26601.
- AUT 23104 Automotive Internship (W) 5 (0-5)**
 This internship offers supervised automotive repair experience at a selected automotive repair facility. Students accomplish the course objectives while employed in the automotive industry. This course is required for completion of the associate in applied science, and the master certificate program. Prerequisites: successful completion of automotive program curriculum. The student will complete 180 hours in this course. Corequisite: AUT-17901 or instructor permission.
- AUT 26500 Steering Suspension & Alignment (F) 4 (3-3)**
 This is a lecture/lab course covering nomenclature and operating principles of steering and suspension systems. Emphasis is on skill development in servicing power steering systems, replacement of suspension components, and four-wheel alignment. Prerequisite: AUT-16302 and AUT-17702 or instructor's permission.
- AUT 26601 Engine Performance & Diagnostics (F) 4 (3-3)**
 Through the study of theory and use of testing and diagnosis procedures for computerized engine controls, the student will develop the skills required of a diagnostic tune-up technician. Prerequisites: successful completion of first and second semester of automotive curriculum or instructor's permission and AUT-16201, AUT-16302, AUT-16401, and AUT-16801.
- AUT 26700 Diesel Eng Performance & Diagnostic (W) 4 (3-3)**
 This is a lecture/lab course designed to teach students performance and diagnostic procedures on modern passenger car and light duty truck diesel engines. Differences between diesel engine diagnostics and gasoline engines will be covered in great detail. Combustion chamber, fuel, cooling, and lubrication system designs are discussed. Maintenance requirements due to low sulfur fuel, particulate traps, air filter service and new engine oil configurations are all covered. Prerequisite: AUT17200 or instructor's permission.

AUT 27000 Heating & Air Conditioning

(F)

3

In this basic refrigeration and air conditioning course, students will gain skills in refrigeration tools and materials, basic refrigeration systems, compressors, refrigerant controls, electric circuit controls, refrigerants testing, and repair of air conditioning units. Prerequisite: AUT-16302 or instructor's permission.

AUT 27900 Manual Trans Drivelines/Rear Axles

(W)

4

This is a lecture/lab course in the function, construction, operation, servicing, and troubleshooting of conventional power transmission components used in passenger cars and light trucks; clutch, manual transmission/transaxel, propeller shafts, universal joints, and rear axles. The student is given experience in disassembly and reassembly of component parts.
Prerequisite: AUT-16302 or instructor permission.

AVIATION (AIR)

AIR 25000 Private Pilot Ground School

(W)

3 (3-0)

This is a beginning course for students engaged in primary flight instruction or interested in such instruction. Topics include introduction to airplanes, airplane systems, theory of flight, airports, communications, air traffic control, weight and balance, meteorology, Federal Aviation Regulations, Airmen's Information Manual, flight computer, basic navigation, performance factor, radio navigation, and medical factors of flight. Upon successful completion, the student will be qualified to take the Federal Aviation Administration written examination for private pilots.

BIOLOGY (BIO)

BIO 10100	General Biology	(F,W)	4 (3-2)
This is a lecture and laboratory course in the basic principles of life science; genetics, origin, and evolution of life, structure, function, and classification of organisms and interactions in the ecosystem are stressed. (Science Credit)			
BIO 10700	Essentials of Anatomy & Physiology	(F,W,S)	4
This course provides an abbreviated study of the gross and microscopic structures and functions of the systems, organs, and tissues of the human body. Terminology and common pathologies of each system will be introduced. This course includes two hours of laboratory.			
BIO 11500	Anatomy & Physiology I	(F,W)	4 (3-2)
The first of a two-semester sequence, the first semester covers the nature of life science, organization of the human body, cell chemistry and metabolism, the integumentary system, histology, the skeletal and muscular systems, and the nervous system. Prerequisite: high school chemistry with a minimum grade of "B" or CHE-10003 & CHE-10004 with a minimum grade of "C" or better in each. Students must have taken chemistry course within the past 10 years. (Science Credit, except for Associate in Science)			
BIO 11600	Anatomy & Physiology II	(F,W,S)	4 (3-2)
This is a continuation of BIO-11500 with emphasis on the sensory system, endocrine system, cardiovascular system, respiratory system, digestive system, urinary system, and reproductive system with an introduction to genetics. The course will conclude with a study of pregnancy and human growth and development. Prerequisite: BIO-11500 and High School Chemistry with a minimum grade of "B"; or permission of instructor. (Science Credit, except Associate in Science)			
BIO 20100	General Zoology	(F)	4 (3-2)
This course provides a lecture/laboratory survey of the major animal groups including internal and external structure; reproductive processes; behavior patterns; life history; and special features peculiar to each group. Some field work in identification of local animals is included. Prerequisite: BIO-10100 or permission of instructor. (Science Credit)			
BIO 20200	General Botany	(V)	4 (3-2)
This is a survey course in plant morphology. The structure, classification, and natural history of major plant groups is stressed, as well as extensive field work in the collection and identification of local plant species. (Science Credit)			
BIO 21000	Microbiology	(F)	4 (3-2)
This course provides a lecture/laboratory study of the major groups of microbes. The structure of the unicellular organism will be compared to the structure of multicellular organisms. Applications to medicine and ecology will be discussed. The course is designed for the liberal arts student as well as the health sciences student. Prerequisites: CHE-10003, CHE-10004, and BIO-10100, or permission of instructor. (Science Credit)			
BIO 21300	Nature Study	(F,W,S)	4 (3-2)
A lecture/laboratory and field course in the behavior, ecology, and classification of plants and animals, including recognition of local flora and fauna, the course is designed to give natural history background material to the liberal arts non-science major, to the non-specialists interested in outdoor life, to those interested in nature interpretation, and to elementary school teachers. (Science Credit)			
BIO 21500	Pathophysiology	(F,S)	4 (4-0)
Content of this course will examine the mechanism underlying disease processes and the subsequent adaptation and alterations in body function. Selective health problems will be emphasized throughout the course. Clinical application will be made in concurrent and subsequent nursing courses. Prerequisites: ALH-10101 and BIO-11600. (Science Credit, except for Associate in Science)			

BUSINESS & MARKETING (BUS)

BUS 10100 Intro to Business (F,W,S) 3 (3-0)

This course provides an orientation to characteristics and functions of business, business environment, opportunities, ownership, management, organization, marketing, physical plant, personnel, finance, ethics, law, and controls for decision making.

BUS 201-- Internship in Business & Marketing (F,W,S) 3-9

This course is designed to provide students with an opportunity to earn credit while obtaining meaningful discipline-related work experience outside the classroom setting. Students are expected to spend a minimum of 128 hours (3 credits) in an appropriate work setting. The course may be repeated for a maximum of nine credits. Prerequisite: 2.5 GPA, sophomore standing, employer and instructor approval, and submission to, and approval by, business department.

BUS 20200 Grant Writing (V) 3 (3-0)

This course is designed to give students experience in the research, writing, and planning skills involved in preparing grants. Emphasis is placed on writing grants for nonprofits.

BUS 21000 Prin of Management (W) 3 (3-0)

This course examines management as a basic process of organizing, directing, actualizing, and controlling the operation of a business enterprise. Prerequisite: BUS-10100 or permission of instructor.

BUS 21100 E-Commerce Management (W) 3 (3-0)

This course examines and integrates the three elements that are crucial to the success of any e-commerce operation, those being, internet technology, business models and marketing. It addresses how companies are using the Internet to add value using the six-C framework of commerce, content, communication, connectivity, community, and computing. E-commerce management rests on three pillars - Internet and related technologies, business models, and marketing. Future managers learn how the Internet and the Web are organized, how sites can be located and how sites relate to one another. Managers then learn how these technologies affect business variables such as sales, costs, revenues and marketing. Prerequisite: BUS-10100, or permission of instructor.

BUS 21500 Legal Environment of Business (F,W) 3 (3-0)

This course provides an introduction to the legal environment as it relates to business and society, to provide the student with a basic understanding of law as it pertains to business operations and their relationships with society.

BUS 24000 Financial Management (W) 3 (3-0)

This course is designed to provide a basic foundation in the major areas of finance, providing the necessary background for courses in business finance, financial management, monetary theory, banking problems, public finance, agricultural finance, security markets, and related courses. Prerequisite: ACC-12200 or permission of instructor.

BUS 24500 Personnel Management (F) 3 (3-0)

The object of this course is to acquaint students with the problems of personnel management. Personnel problems that deal directly with departmental organization, employment procedures, methods of testing, occupational descriptions, job evaluations, merit rating, wage plans, wage and salary control, aids to employees, safety, health and recreation, and employer-employee relations are covered.

CAREER & PERSONAL DEVELOPMENT (CAR)

CAR 10201 College Survival and Success I (F,W,S) 1 (1-0)

This course introduces skills necessary for early survival and success in college. It focuses on personal development, learning style analysis, time management, goal setting, and a thorough overview and orientation of Kirtland Community College programs, services, and resources.

CAR 10202 College Survival and Success II (F,W,S) 1 (1-0)

This course is designed to provide students with the opportunity to cultivate the academic skills necessary to become confident and capable learners. Students complete the college student inventory and discuss strategies. Topics include effective listening and reading strategies, concentration and memory, note taking, and test taking strategies.

CAR 10203 College Survival and Success III (F,W,S) 1 (1-0)

This course focuses on higher order skills such as creative and critical thinking, decision making, and communication. It also examines wealth and stress management and assists students in identifying career goals.

CAR 10204 College Success and Survival (F,W,S) 3 (3-0)

This course is designed to provide students with the opportunity to cultivate the skills, values, and attitudes necessary to become capable and confident learners. It introduces students to college resources, programs, and services and assists students in identifying career goals.

CAR 10300 Career Development Skills (F,W) 1 (1-0)

Career development skills are those abilities that allow students to be successful in all aspects of their careers. This course teaches career exploration, job search, employment correspondence, and interview and employability skills. Life skills such as time management, communications, and working cooperatively are emphasized. Students will engage in written, oral, and interpersonal activities to learn and demonstrate workplace skills.

CAR 12600 Service Learning Lab (V) 1 (99-99)

A service-learning project designed by an instructor to supplement course learning, this may be offered either as a required or optional lab.

CAR 200-- Service Learning Project (V) 1-5

An individual service-learning project will be designed under the supervision of the coordinator of service learning and appropriate faculty members. The student will design a community placement as the basis for academic learning. Prerequisite: permission of the service learning advisory committee.

CHEMISTRY (CHE)

CHE 10003	Chemical Science	(F,W)	3 (3-0)
Chemical Science presents the elementary principles of inorganic, physical, and organic chemistry. It is intended to introduce college chemistry, or to satisfy course requirements in technical fields such as nursing. Prerequisite: DEV-07300 or high school algebra. Corequisite: CHE-10004. (Science Credit)			
CHE 10004	Chemical Science Lab	(F,W)	1 (0-2)
This is a laboratory course to accompany CHE-10003. Corequisite: CHE-10003. (Science Credit)			
CHE 10101	Gen Chemistry I	(F)	4 (4-0)
General Chemistry I provides a thorough discussion of the topics of atomic structure, stoichiometry, solutions and pH, gas laws, electronic configuration and bonding theories, the periodic tables, and liquids and solids. Prerequisites: high school chemistry or CHE-10003 and CHE-10004 and one year of high school algebra. Prerequisite or corequisite: ENG-10303 or permission of instructor. Corequisite: CHE- 10102. (Science Credit)			
CHE 10102	Gen Chemistry Lab I	(F)	1 (0-3)
This is a laboratory course to accompany CHE-10101. Corequisite: CHE-10101. (Science Credit)			
CHE 10201	General Chemistry II	(W)	4 (4-0)
This is a continuation of General Chemistry I, concerned broadly with thermodynamics and kinetics. Topics discussed include kinetics data analysis and reaction mechanisms, chemical equilibrium, electrochemistry, chemical thermodynamics, nuclear chemistry, and some descriptive chemistry of the elements. Prerequisite: CHE-10101. Corequisite: CHE-10202. (Science Credit)			
CHE 10202	General Chemistry II Lab	(W)	1 (0-3)
This is a laboratory course to accompany CHE-10201. Corequisite: CHE-10201. (Science Credit)			
CHE 20101	Organic Chemistry I	(V)	4 (4-0)
Modern bonding theory in organic molecules, theory of reactions, stereochemical principles, chemistry of alkanes, cycloalkanes, alkenes, dienes, alkynes, aromatics, and alcohols, with special emphasis on reaction mechanisms. Prerequisite: CHE10200 General Chemistry II.			
CHE 20102	Organic Chemistry Lab I	(V)	1 (0-3)
Fundamental laboratory techniques and preparations. Prerequisite: CHE 10200 General Chemistry II.			
CHE 20201	Organic Chemistry II	(V)	4 (4-0)
Study of ethers and epoxides, carbonyl-containing compounds, aldehydes, ketones, carboxylic acids and their derivatives, carbanion chemistry, aliphatic and aromatic nitrogen-containing compounds, with special emphasis on bioorganic compounds, amino acids and polypeptides, carbohydrates and lipids. Prerequisite: CHE20101 Organic Chemistry I.			
CHE 20202	Organic Chemistry Lab II	(V)	1 (0-3)
Fundamental laboratory techniques and preparations. Prerequisite: CHE20101 Organic Chemistry I.			

COMPUTER INFORMATION SYSTEMS (CIS)

CIS 01000 Basic Computing (F,W) 2 (2-0)

This course is designed to help students learn about the fundamental aspects of using a computer. It is designed for beginners who have never used a computer or are afraid to use one. This course is slower paced and does not have the rigor of a transferable computer course. Students will learn about hardware components, Windows, word processing software, the Internet, and e-mail. This course does not transfer to other colleges or universities. No prerequisite.

CIS 10500 Intro to Computers (F,W,S) 3 (3-0)

Students will become familiar with hardware and software terminology/concepts, Windows operating system, word processing, spreadsheet, database management, presentation software, data communications, the Internet, and ethical/moral issues related to computing. Application software used is the current version of Microsoft Office Professional and the current version of the Internet Explorer. Keyboarding skills are required and necessary for successful completion of this course. Prerequisite: Keyboarding skills.

CIS 11700 Visual Basic I (W) 3 (1.5-1.5)

This course serves as an introduction to Visual Basic. The course introduces concepts concerning the design, creation, test, and execution of Visual Basic Applications. Prerequisite: CIS-10500 with a "B" or better, or demonstrated competency.

CIS 17001 Microsoft Office (F,W) 3 (3-0)

This course covers how to utilize and integrate all the applications contained within Microsoft Office. Exercises will involve business applications using the word processing, spreadsheet, database management, and presentation software components of Microsoft Office. Application software used Microsoft Office Professional which includes: Word, Excel, Access, and PowerPoint. Prerequisite: CIS-10500 or demonstrated competency.

CIS 17102 PowerPoint (V) 1 (1-0)

Students will create and modify slide show presentations using Microsoft PowerPoint. Emphasis will be placed on customizing slide shows by: a) changing colors, fonts, and styles; b) adding clip art or WordArt objects; c) embedding spreadsheets; and d) adding animation and transition effects. Students will learn how to present the show on a computer monitor and on the World Wide Web. Application software used is the current commercial version of Microsoft PowerPoint. Prerequisite: CIS-10500, or CIS-22302, or demonstrated competency.

CIS 17200 Publisher (V) 2 (2-0)

The student will learn desktop publishing concepts by working through hands-on projects that produce newsletters, brochures, web sites, business cards, letterheads, business forms, and specialty documents. Students will also learn how to customize publications and how to integrate other office objects (i.e., spreadsheets, charts, etc.) into a publication. Application software used is the current version of Microsoft Publisher. No prerequisite.

CIS 17300 Microsoft Access (V) 1 (1-0)

Students will learn how to create database tables, queries, reports and forms. Students will also learn how to develop relationships among the tables and how to publish database information to the internet. Application software used is Microsoft Access. Prerequisite: CIS-10500 or CIS-22302; or demonstrated competency.

CIS 19600 Hardware Certification (F) 3 (3-0)

This course will attempt to prepare students for the industry standard hardware certification exam. Topics will include major hardware components such as motherboards, processors, memory, storage, and peripheral devices. Operating System software from DOS up to the current Windows version will be covered. Techniques for troubleshooting problems and hands-on applications will be presented. Prerequisite: CIS-10500.

CIS 19700 OS Certification (F) 3 (1-2)

This course will help prepare students for the industry standard hardware certification exam with an emphasis on Operating System (OS) core components. Topics include Windows Operating System software and a review of major hardware components that address: motherboards, processors, memory, storage, and peripheral devices. Prerequisite: CIS-10500, or demonstrated competency.

CIS 21000	Internet & Web Page Development	(F)	3 (1-2)
Students will be given an overview of the Internet, WWW and Windows file management techniques. Students will learn how to design and create W3C compliant web pages using HTML, XHTML, and cascading style sheets (CSS). Areas covered include: css formatting, hyperlinks, images, image maps, tables, newsletter formats, forms, framed pages, multimedia files, and java applets. Students will also learn how to create their own graphical images for their pages using web-based sites and Photoshop. Completed pages will be uploaded to the student's Internet web site and debugged. Prerequisite: CIS-10500.			
CIS 21500	Web Animation & Multimedia	(W)	3 (3-0)
Students will create animated graphic content for websites using the current commercial version of Macromedia Flash. Prerequisite: CIS-10500 or demonstrated competency.			
CIS 21900	MacIntosh OS X	(F,W)	1 (1-0)
The student will learn functions and commands in the MacIntosh operating system. Specific topics to be covered in this course include working with windows and menus, customizing the desktop, managing files and folders, and running application programs that come with the operating system. This course will offer a brief exposure to internet and multimedia applications, and how they operate in the Mac OS environment.			
CIS 22302	Windows	(V)	1 (1-0)
The student will learn functions and commands in the Windows operating system. Specific topics to be covered in this course include working with windows and menus, customizing the windows environment, managing files and folders, running application programs that come with Windows, multitasking, exploring multimedia features, and investigating data communication features.			
CIS 22400	UNIX	(W)	2 (2-0)
Students will learn about the UNIX operating system environment. They will learn about the different UNIX shells and how to issue basic system commands. Students will explore the UNIX file system (partitions, directories, navigation, etc.). Other topics covered include the following: 1) using common editors; 2) basic and advanced file management commands; 3) creating simple and complex shell scripts; 4) using pine for e-mail; 5) using UNIX utilities; and 6) programming in a UNIX environment. System administration will also be covered. Prerequisite: CIS-10500 or demonstrated competency.			
CIS 22500	Spreadsheets	(W)	3 (3-0)
Students will learn how to build, save, format, print, and modify spreadsheets. Students will also learn how to develop formulas/functions, charts, link worksheets, link workbooks, utilize auditing features, use database features, and develop macros. Application software is the current commercial version of Microsoft Excel. Prerequisite: CIS-10500 or demonstrated competency.			
CIS 22702	Microsoft Excel	(V)	1 (1-0)
This course explores the use of Microsoft Excel in business-related applications. Students will learn how to build, save, print and modify spreadsheets as well as how to create formulas/functions and charts. Application software used is the current commercial version of Microsoft Excel. Prerequisite: CIS-10500, or CIS-22302, or demonstrated competency.			
CIS 23501	Database Design	(W)	3 (2-2)
Students will learn the theoretical knowledge necessary to design and implement effective information databases. Areas such as file layout, data structures, implementation methods, security, and web interfacing will be addressed. Students will work with a currently popular commercially available database management system. Prerequisite: CIS-10500 or demonstrated competency.			
CIS 24000	Technology in Education	(F)	3 (3-0)
Students will learn to operate a wide variety of technology-based equipment; select and assess instructional media materials, courseware, and software; and integrate technology and media into K-12 education. No Prerequisite.			

CIS 26000	Intro to Computer Networking	(F)	3 (3-0)
This course serves as an overview of digital data communications. The course addresses the following: data communications, digital and analog signals, communications media, multiplexers, data transmission, Protocols, Network concepts, WANs, MANs, LANs, communications services, the Internet, eBusiness, network security, and network management. Prerequisite: Keyboarding skills.			
CIS 26100	Internet	(V)	1 (1-0)
This course will investigate the resources of the Internet. Areas of exploration will be the World Wide Web, e-mail, Usenet newsgroups, FTP's and Telnet. This course will offer the students the ability to become comfortable finding and retrieving information from this network of networks. Prerequisite: CIS-10500 or demonstrated competency.			
CIS 26200	Web Pages	(V)	1 (1-0)
Students will design and create web pages using HTML. Once a page has been created, students will edit pages to include text formatting, hyperlinks, images, and tables. Pages will be uploaded to the Internet and debugged. Prerequisite: CIS-10500 or demonstrated competency.			
CIS 26300	Advanced Web Pages	(V)	1 (1-0)
Students will create a wide variety of web pages including forms, newsletters, and framed pages. They will also learn how to create and add multimedia files to web pages and how to add code for Java applets. Corequisite: CIS-26200 or demonstrated competency.			
CIS 26400	JavaScript	(W)	3
JavaScript is a programming language that resides inside HTML documents. It is used to create interactive web pages that incorporate banners, pop-up windows, calculations, interactive forms, dynamic images, etc., into web pages. JavaScript topics such as conditionals, functions, objects, properties, methods, event handlers, forms, and frames will be covered in this course. We will also cover ASP commands including database connectivity to give students exposure to serverside scripting. Prerequisite: CIS21000 or CIS26300 or demonstrated competency.			
CIS 27001	Programming I	(F)	3 (3-0)
This course investigates general methods of problem-solving, principles of structured programming, and algorithmic design. This includes data types and variable declarations, I/O (input and output), arithmetic operators, assignment and expressional operators, static and automatic variables, external declaration, functions and modular programming, array processing, pointers, record data structures, and file I/O. Programming language used is C. Corequisite: MTH-12000 or demonstrated competency AND CIS10500 or demonstrated competency.			
CIS 27101	Programming II	(W)	4 (4-0)
General methods of problem-solving, principles of algorithmic design, and object-oriented design are discussed. This includes data types, functions, arrays, pointers, objects, classes, class inheritance, polymorphism, exceptions, input, output, and file-handling techniques. Other topics introduced include linked lists, stacks, queues, recursion, and dynamic allocation. Programming language used is C++. Prerequisite: Grade of "C" or better in CIS-27001 or demonstrated competency.			
CIS 27201	Web Programming	(S)	3 (3-0)
Students will produce interactive, dynamic web-based applications using popular, marketable, web programming languages and tools. Server-side scripting and the .NET environment will be explored. Prerequisite: CIS-21000 (or CIS-26200 AND CIS-26300) or demonstrated competency.			
CIS 275--	Directed Study-Computer Information System	(V)	1-6
This is a course designed to meet special occupational needs for individual students. Prerequisite: advisor recommendation.			
CIS 280--	Internship in Computer Information Systems	(V)	3-9
This course is designed to provide students with an opportunity to earn credit while obtaining meaningful discipline-related work experience outside the classroom setting. Students are expected to spend a minimum of 128 hours (3 credits) in an appropriate work setting. The course may be repeated for a maximum of nine credits. Prerequisite: 2.5 G.P.A., sophomore standing, employer and instructor approval, and submission to, and approval by, the CIS department.			

COSMETOLOGY (COS)

COS 11200	Manicuring I	(F,W,S)	2.5 (0.51-4)
This course covers orientation and theory. Instruction and application include water manicure, hot oil manicure, and pedicure, along with sanitation of equipment and implements. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 11300	Manicuring II	(F,W,S)	2.5 (0.51-4)
This course covers theory and laboratory work on the public. Instruction and application include sculptured acrylic nails, overlays, and fill-ins. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-11200.			
COS 11400	Manicuring III	(F,W,S)	2.5 (0.51-4)
This course covers theory and laboratory work on the public. Instruction and application include nail tips (blended) and nail wraps. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-11300.			
COS 11500	Manicuring IV	(F,W,S)	2.5 (0.51-4)
This course covers theory and laboratory work on the public. Instruction and application include spa manicures, gel nails, and hand and feet paraffin. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-11400.			
COS 11600	Manicuring V	(F,W,S)	2.5 (0.51-4)
This course covers theory and laboratory work on the public. Instruction and application include nail art, air brushing, and Michigan state laws. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-11500.			
COS 11700	Manicuring VI	(F,W,S)	2.5 (0.51-4)
This course covers theory review, preparation for the final test, and practice of all curriculum in clinic or on a manikin hand. Students complete a final exam and a simulated state board exam. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-11600.			
COS 12100	Cosmetology I	(F,W,S)	2.5 (0.5-3.5)
This course covers orientation, career information, state laws and regulations, professional image, first aid, chemistry, electricity, job-seeking, and professional ethics. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 12200	Cosmetology II	(F,W,S)	2.5 (0.5-3.5)
This course covers health, public sanitation methods, chemical agents, types, classifications of bacterial growth, biology, infections, infection control, products, tools, equipment use and safety, bacteriology, and decontamination. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-12100.			
COS 12300	Cosmetology III	(F,W,S)	2.5 (0.5-3.5)
This course covers principles and techniques of treatment and disorders of the hair and scalp and related chemistry, shampoos, rinses, and scalp treatments. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-12200.			
COS 12400	Cosmetology IV	(F,W,S)	2.5 (0.5-3.5)
This course covers the principles and techniques of wet styling, blow dry and waving, finger waving, and hairdressing. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-12300.			
COS 12500	Cosmetology V	(F,W,S)	2.5 (0.5-3.5)
This course covers the principles and techniques of sectioning, removing length or bulk with a razor, scissors, clippers, or shears in haircutting. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-12400.			

COS 12600	Cosmetology VI	(F,W,S)	2.5 (0.5-3.5)
This course covers the principles and techniques of temporary, semi-permanent, deposit-only, and permanent colors, bleaching, tinting, toning, frosting, special effects, and problems in haircoloring. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-12500.			
COS 12700	Cosmetology VII	(F,W,S)	2.5 (0.5-3.5)
This course covers the principles and techniques of sectioning, wrapping, processing of chemicals, and rearranging the hair. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-12600.			
COS 12800	Cosmetology VIII	(F,W,S)	2.5 (0.5-3.5)
This course covers the principles and techniques of sectioning, curling, and relaxing hair as a texture service. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-12700.			
COS 12900	Cosmetology IX	(F,W,S)	2.5 (0.5-3.5)
This course covers the principles and techniques of advanced nails with nail art. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-12800.			
COS 13000	Cosmetology X	(F,W,S)	2.5 (0.5-3.5)
This course covers the principles and techniques of massage, manicuring, and pedicuring. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-12900.			
COS 13100	Cosmetology XI	(F,W,S)	2.5 (0.5-3.5)
This course covers the principles and techniques of skin chemical procedures, massage, and facial treatments. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-13000.			
COS 13200	Cosmetology XII	(F,W,S)	2.5 (0.5-3.5)
This course covers the principles and techniques of cosmetic application, artificial eyelashes, removal of unwanted hair, and lash and brow tinting. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-13100.			
COS 13300	Cosmetology XIII	(F,W,S)	2.5 (0.5-3.5)
This course covers the principles and techniques of light therapy. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-13200.			
COS 13400	Cosmetology XIV	(F,W,S)	2.5 (0.5-3.5)
This course covers the fundamentals of business management, opening a salon, and business plans. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-13300.			
COS 13500	Cosmetology XV	(F,W,S)	2.5 (0.5-3.5)
This course covers the principles and techniques of written agreements, licensing requirements and regulations, laws, salon operations, policies, practices, compensation packages, payroll deductions, telephone use, advertising, sales, communication, public/human relations, insurance, and salon safety. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-13400.			
COS 13600	Cosmetology XVI	(F,W,S)	2.5 (0-2.5)
This course covers theory review, preparation for the final test and practice of all curriculum, and a simulated state board exam. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-13500.			
COS 14100	Skin Care I	(F,W,S)	2.5 (0.51-4)
In this course, the student will learn how to have a professional image, the history of skin and its cells, and anatomy and physiology. Students will also learn bacteria classifications and safety procedures for a salon. Students must pass this course with a minimum grade of "C-" to advance to the next section.			

COS 14200	Skin Care II	(F,W,S)	2.5 (0.51-4)
In this course, the student will learn skin disorders, nutrition and health of the skin, chemistry and product ingredients, skin analysis and client consultation, and the proper draping of the client. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-14100.			
COS 14300	Skin Care III	(F,W,S)	2.5 (0.51-4)
In this course, the student will learn proper cleansing, massage and mask therapy, and how to do facials with and without the aid of machines. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-14200.			
COS 14400	Skin Care IV	(F,W,S)	2.5 (0.51-4)
In this course, the student will learn about removing unwanted hair, aging factors and cosmetic surgery effects, male skin care, aromatherapy, advanced topics, and working with a physician. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-14300.			
COS 14500	Skin Care V	(F,W,S)	2.5 (0.51-4)
In this course, the student will learn color therapy and professional makeup application techniques. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-14400.			
COS 14600	Skin Care VI	(F,W,S)	2.5 (0.51-4)
The student will learn the business part of managing a salon and the selling of products and services. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-14500.			
COS 15010	Natural Hair Cultivation I	(F,W,S)	2.5 (1-4)
The student will learn the ancient origins of hair braiding, traditional African braid styles, what certain braid styles communicate, and the African-American hair experience, with some braiding techniques. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 15020	Natural Hair Cultivation II	(F,W,S)	2.5 (1-4)
The student will learn the definition and types of bacteria, how bacteria grows and reproduces, the relationship of bacteria and the spread of disease, prevention and infection control, standard sanitation practices, and how to use antiseptics, disinfectants, and detergent, techniques of braiding. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 15030	Natural Hair Cultivation III	(F,W,S)	2.5 (1-4)
The student will learn how to build client trust, how to maintain a professional attitude, what particular services natural hair care specialist/braid designers offer clients, and how to nurture the client's total well-being, with some braiding techniques. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 15040	Natural Hair Cultivation IV	(F,W,S)	2.5 (1-4)
The student will learn how to conduct a professional consultation, what questions to ask a client, how to set up a client profile card, what to look for during a hair examination, how to identify facial structures and styles that fit them, and how to advise a client appropriately, as well as some braiding techniques. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 15050	Natural Hair Cultivation V	(F,W,S)	2.5 (1-4)
The student will learn nurturing shampoo techniques for textured hair, how to shampoo braids, how to remove braids before shampooing for touch-ups, the different types of shampoo, and types of herbal rinses and conditioners, as well as different braiding techniques. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 15060	Natural Hair Cultivation VI	(F,W,S)	2.5 (1-4)
The student will learn to identify hair crafters' tools and how to handle them to create braiding styles, how to brush and comb out textured hair safely, how to section hair to prepare for various braiding designs, Shampoo and massaging techniques, and how to apply various hair oils and conditioning preparations, as well as all the different braid techniques. Students must pass this course with a minimum grade of "C-" to advance to the next section.			

COS 17500	Salon Management	(F,W,S)	1 (1-0)
In this course, the student will study all aspects of salon business operations including physical plan, furnishings and supplies, systems, personnel, and the overall function in the business community. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 20200	Manicure Instructor I	(F,W,S)	2.5 (1-4)
This course offers orientation and review of all subjects in the cosmetology curriculum. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 20300	Manicure Instructor II	(F,W,S)	2.5 (1-4)
This course provides demonstration and theory in lesson plans. Students are required to do ten lesson plans. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 20400	Manicure Instructor III	(F,W,S)	2.5 (1-4)
This course provides demonstration and theory in course outlines. Students are required to do five course outlines. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 20500	Manicure Instructor IV	(F,W,S)	2.5 (1-4)
This course provides demonstration and theory in syllabi and exam questions. The student is required to do a cosmetology syllabus and a 500-question, multiple-choice exam for graduate testing. Students must pass this course with a minimum grade of C- to advance to the next section.			
COS 20600	Manicure Instructor V	(F,W,S)	2.5 (1-4)
This course provides demonstration and theory in teaching in a dynamic clinic, teaching to diverse learning styles. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 20700	Manicure Instructor VI	(F,W,S)	2.5 (1-4)
This course covers theory review, preparation for the final test and practice of all curriculum, and a simulated state board exam. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 21100	Cosmetology Seminar	(V)	1 (99-99)
This seminar provides brush-up for licensed cosmetologists. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 21300	Cosmetology Seminar	(V)	4 (99-99)
This seminar provides brush-up for licensed cosmetologists. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 21500	Dry Room Body Wraps	(F,W,S)	1 (1-0)
This course will provide instruction on three body wraps, which do not require removal of products. The Siddha Body Detoxification, Herbology Body Treatment, and the Aromatherapy Body wrap will be demonstrated, along with a scalp massage. Aromatherapy oils and gem stone therapy treatments will be explored. Prerequisite: Licensure as Cosmetologist or Esthetician, or current cosmetology student.			
COS 22100	Cosmetology Instructor I	(F,W,S)	2.5 (0.51-4)
This course offers orientation and review of all subjects in the cosmetology curriculum. Prerequisite: license in cosmetology from the State of Michigan. Students must pass this course with a minimum grade of "C-" to advance to the next section.			
COS 22200	Cosmetology Instructor II	(F,W,S)	2.5 (0.51-4)
This course provides demonstration and theory in lesson plans. Students are required to do ten lesson plans. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-22100.			
COS 22300	Cosmetology Instructor III	(F,W,S)	2.5 (0.51-4)
This course provides demonstration and theory in course outlines. Students are required to do five course outlines. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-22200.			

COS 22400	Cosmetology Instructor IV	(F,W,S)	2.5 (0.51-4)
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This course provides demonstration and theory in syllabi and exam questions. The student is required to do a cosmetology syllabus and a 500-question, multiple-choice exam for graduate testing. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-22300.

COS 22500	Cosmetology Instructor V	(F,W,S)	2.5 (0.51-4)
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This course provides demonstration and theory in teaching in a dynamic clinic, teaching to diverse learning styles. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-22400.

COS 22600	Cosmetology Instructor VI	(F,W,S)	2.5 (0.51-4)
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This course covers theory review, preparation for the final test and practice of all curriculum, and a simulated state board exam. Students must pass this course with a minimum grade of "C-" to advance to the next section. Prerequisite: COS-22500.

COS 24100	Skin Care Instructor I	(F,W,S)	2.5 (1-4)
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This course offers orientation and review of all subjects in the cosmetology curriculum. Students must pass this course with a minimum grade of “C-“ to advance to the next section.

COS 24200	Skin Care Instructor II	(F,W,S)	2.5 (1-4)
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This course provides demonstration and theory in lesson plans. Students are required to do ten lesson plans. Students must pass this course with a minimum grade of “C-“ to advance to the next section.

COS 24300	Skin Care Instructor III	(F,W,S)	2.5 (1-4)
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This course provides demonstration and theory in course outlines. Students are required to do five course outlines. Students must pass this course with a minimum grade of “C-“ to advance to the next section.

COS 24400	Skin Care Instructor IV	(F,W,S)	2.5 (1-4)
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This course provides demonstration and theory in syllabi and exam questions. The student is required to do a cosmetology syllabus and a 500-question, multiple-choice exam for graduate testing. Students must pass this course with a minimum grade of “C-“ to advance to the next section.

COS 24500	Skin Care Instructor V	(F,W,S)	2.5 (1-4)
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This course provides demonstration and theory in teaching in a dynamic clinic, teaching to diverse learning styles. Students must pass this course with a minimum grade of “C-“ to advance to the next section.

COS 24600	Skin Care Instructor VI	(F,W,S)	2.5 (1-4)
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This course covers theory review, preparation for the final test and practice of all curriculum, and a simulated state board exam.

COS 25010	Natural Hair Cultivation Instructor I	(F,W,S)	2.5 (1-4)
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This course offers orientation and review of all subjects in the cosmetology curriculum. Students must pass this course with a minimum grade of “C-“ to advance to the next section.

COS 25020	Natural Hair Cultivation Instructor II	(F,W,S)	2.5 (1-4)
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This course provides demonstration and theory in lesson plans. Students are required to do ten lesson plans. Students must pass this course with a minimum grade of “C-“ to advance to the next section.

COS 25030	Natural Hair Cultivation Instructor III	(F,W,S)	2.5 (1-4)
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This course provides demonstration and theory in course outlines. Students are required to do five course outlines. Students must pass this course with a minimum grade of “C-“ to advance to the next section.

COS 25040	Natural Hair Cultivation Instructor IV	(F,W,S)	2.5 (1-4)
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This course provides demonstration and theory in syllabi and exam questions. The student is required to do a cosmetology syllabus and a 500-question, multiple-choice exam for graduate testing. Students must pass this course with a minimum grade of "C-" to advance to the next section.

2.5 (1-4)

COS 25060 Natural Hair Cultivation Instructor VI

2.5 (1-4)

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CRIMINAL JUSTICE (CJS)

CJS 10000	Intro to Criminal Justice	(F)	3 (3-0)
This course covers the history and developing philosophy of law enforcement, including the police, courts, and corrections; present organization and jurisdiction of local, state, and federal agencies; and an introduction to the problems facing the criminal justice system today. Prerequisite: permission of criminal justice advisor.			
CJS 10200	Physical Training I	(F,W,S)	3 (4-0)
This course is designed for the criminal justice student to participate in the state's Physical Agility Test. The student will work at developing upper-body strength, stamina, and legwork as needed to pass the different stages of the examination. Prerequisite: permission from a criminal justice advisor.			
CJS 10201	Physical Training II	(F,W,S)	3 (4-0)
This course is a continuation of CJS-10200. It is designed to continue the preparation of the criminal justice student planning to participate in the state's Physical Agility Test. The student will continue working on developing upper-body strength, stamina, and legwork as needed to pass the different stages of the examination. Prerequisite: CJS-10200.			
CJS 10202	Physical Training III	(F,W,S)	3 (4-0)
This course is a continuation of CJS-10201. It is designed to continue the preparation of the criminal justice student planning to participate in the state's Physical Agility Test. The student will continue working on developing upper-body strength, stamina, and legwork as needed to pass the different stages of the examination. Prerequisite: CJS-10201.			
CJS 10800	Firearms	(F,W)	3 (1-2)
This is an eight-week course that covers orientation to firearms; policies, procedures, and liability of firearms; and use and hands-on firearms range techniques using targets approved by the Michigan Commission on Law Enforcement Standards (MCOLES). Prerequisite: employment as a peace officer or status as a criminal justice student.			
CJS 10900	Intro to Corrections	(F)	3 (3-0)
This course introduces the agencies and processes within the correctional system, beginning with ancient history through the modern era. Correctional legislation and the courts are examined, along with the integral parts they play in sentencing, parole, probation, community corrections, and the correctional officer's professional work ethics. Prerequisite: permission of criminal justice advisor.			
CJS 11000	Careers in Criminal Justice	(F)	1 (1-0)
The course is designed to acquaint the student with a variety of criminal justice occupations. Prerequisite: enrollment as a criminal justice student.			
CJS 11100	Legal Issues in Corrections	(F)	3 (3-0)
This course is a study of up-to-date constitutional law and its impact on correctional institutions, the correctional officer, and the inmate. The student will gain a basic understanding of how state and federal court decisions pertaining to inmate rights have affected the writing of policy and procedure within the correctional system. Prerequisite: permission of criminal justice advisor.			
CJS 11200	Client Growth & Development	(F,W,S)	3 (3-0)
This course is designed to assist the student in identifying behaviors and motivations of the inmate. Emphasis will be placed on the needs of the inmate and intervention strategies. Prerequisite: permission of criminal justice advisor.			
CJS 12300	Firearms-Concealed Weapon Program	(F)	2 (1-1)
This program is developed for the individual who is currently required by local gun boards to have training prior to the issuance of a concealed weapons permit. This course covers the dangers of owning and carrying a handgun, the laws of carrying, and use of the handgun (both civilly and criminally). The individual must demonstrate total understanding of the handgun owned and demonstrate proficient marksmanship qualities. Prerequisite: permission of criminal justice advisor.			

- CJS 12400 Firearms - Instructor Program (V) 3 (1-2)**
 This course is designed to instruct the student on how to become an effective firearms instructor. Topics such as the use of deadly force and the liabilities are covered, along with the five shooting fundamentals, multiple target shooting, training aids, building a proper shooting program, developing a departmental policy, positive teaching methods, use of tear gases and the dangers, as well as several other topics. Prerequisite: permission of criminal justice advisor.
- CJS 17000 Correctional Institution/Facilities (W) 3 (3-0)**
 Included in this course will be an overview of the different levels of security and their historical development within the correctional system. Facility design, organizational structure, custody, security, and inmate due process rights will be reviewed, as well as future projections for correctional facilities and personnel. Prerequisite: permission of criminal justice advisor.
- CJS 17103 Corr Officer Report Writing w/Comp (W) 1 (1-0)**
 The course is designed to develop and improve the student's report-writing skills that are needed in correctional institutions. The student will demonstrate the ability to communicate effectively in written form. This is an eight-week course that meets two hours per week. Students prepare their writing using microcomputers. Prerequisite: ENG-10303 or permission of the head of criminal justice.
- CJS 17200 Client Relations in Corrections (W) 3 (3-0)**
 This course is designed to give the student an understanding of culture and discrimination. Ethics, morals, and professionalism will be examined closely. Affirmative action, social attitudes, and how they affect the correctional systems will also be carefully scrutinized. Prerequisite: permission of criminal justice advisor.
- CJS 20100 Basic Investigative Techniques (F,W) 3 (2-1)**
 This course covers the basic skills necessary for modern criminal investigation, including the discovery, development, and lifting of latent fingerprints; the making of crime scene sketches; the use of plaster and silicone rubber for reproducing evidence at crime scenes; the use of modern investigative aids; and a grounding in the modern techniques of criminal interrogation. Prerequisite: permission of the head of criminal justice.
- CJS 208-- Criminal Justice Internship (F,W,S) 3-9**
 After successful completion of basic criminal justice courses, students may elect criminal justice internship. Students are placed in an approved training station, earn credits for satisfactory work performance, and may earn remuneration. Participation requires approval from the director of criminal justice. Students' occupational interests are considered with their background and related classes to determine employment arrangements. Flexibility of individual programs in any of the law enforcement occupations is accomplished through a practical training program developed in agreement with the training station supervisors and college coordinator. The director shall arrange objectives and assignments that are in accord with purposes of vocational education and maintain constant evaluation through coordination visits to training stations and weekly meetings with the students. Prerequisite: first year of program completed or permission of the head of criminal justice.
- CJS 21100 Narcotics Investigation (F) 3 (3-0)**
 This course will familiarize students with investigations involving dangerous drugs and will include history, sources, recognition, laws, and courtroom presentations. Prerequisite: permission of criminal justice advisor.
- CJS 22400 Advanced Firearms Training (F,W) 3 (1-2)**
 The course presents the concepts and techniques related to safely using a semiautomatic pistol. The policies, procedures, and liabilities concerning the use and care of the weapon will be demonstrated by each student. The student will also demonstrate his or her proficiency with weapons using a course and targets approved by MCOLES. This is an eight-week course of which 16 hours are lecture and 32 hours are range time. Prerequisite: CJS-10800 or permission of the head of criminal justice.
- CJS 24000 Criminology (W,S) 3 (3-0)**
 This course provides an analysis of crime, criminal behavior, and punishment through a variety of historical and contemporary theoretical perspectives. Prerequisite or corequisite: ENG-10303 or permission of instructor.

- CJS 24500 Social Deviant Behavior (W) 3 (3-0)**
 This course studies social deviant behavior, including social and ethnic bias, sociopaths, cult behavior, and ethical behaviors within the criminal justice process. Prerequisite: PSY-10100 or SOC-10100 and permission of criminal justice advisor.
- CJS 26007 Corrections Academy (F) 10 (0-160)**
 This course is a 160-hour Local Corrections Academy approved by the Michigan Correctional Officer's Training Council. The course will cover booking, intake and release, suicide awareness, report writing, prison behavior, correctional law, custody and security, PPCT defensive tactics, interpersonal communication, fire and safety, cultural diversity, sexual harassment, ethics, and stress management. Prerequisites: employment or sponsorship by a sheriff's department and approval of the head of criminal justice.
- CJS 26600 Police Academy (F,W) 21 (1-42)**
 This is a 17-week, Michigan Commission on Law Enforcement Standards (MCOLES)-approved, regional police academy. It will cover investigation, patrol procedures, detention and prosecution, police skills, traffic, and special operations. Prerequisite: degree in hand, enrollment in Kirtland's pre-service program, or sponsorship by a police organization, upon approval of the director of the academy.
- CJS 27000 Community Based Corrections (F) 3 (3-0)**
 This course surveys the history, development, techniques, and fundamentals of non-institutional correctional programs and services. Emphasis will be placed on the necessity of correctional programs to interact with other human services agencies within the community. Prerequisite: permission of criminal justice advisor.
- CJS 275-- Directed Study-Criminal Justice Administratio (V) 1-6**
 This course is designed to meet special occupational needs for individual students. Prerequisite: permission of the head of criminal justice.
- CJS 28001 Institutional Jail & Prison Admin (W) 3 (3-0)**
 This course provides a study of the total confinement process from arrest through administration of justice, probation, prison, and correctional institutions. Particular emphasis will be placed on coping with problems of custodial personnel in city and county jails. Prerequisite: permission of criminal justice advisor.

DEVELOPMENTAL (DEV)

DEV 06300 Basic Mathematics **(F,W,S)** **4 (4-0)**

Mathematical concepts involving whole numbers, fractions, decimals, percents, proportions, measurement, geometry, and elementary algebraic operations will be taught.

DEV 07300 Basic Algebra **(F,W,S)** **4 (4-0)**

The fundamental operation of algebra using integers and rational numbers, exponents, linear equations, word problems, special products, factoring, and graphing of straight lines will be taught. A graphing calculator is required. Prerequisite: DEV-06300 or required COMPASS test scores.

DEV 07400 Basic Algebra Lab **(F,W,S)** **1**

This course provides instructional support for Basic Algebra (DEV07300). Students will receive homework support and supplemental instruction. DEV07300 Basic Algebra is a corequisite of this course.

DEV 08000 Essential Language Skills **(F,W,S)** **3**

This course is designed to meet the needs of those students who have demonstrated very low reading and writing skills. Self-paced instruction and tutorial assistance provided.

DEV 08601 Basic Reading Skills **(F,W)** **3 (3-0)**

This course offers instruction in basic reading techniques to improve comprehension, vocabulary, and critical thinking skills.

DEV 088-- Writing Mechanics **(F,W)** **1-3**

This course provides individualized and/or small group instruction in basic writing skills. Prerequisite: permission of the instructor.

DEV 09000 Fund of English **(F,W,S)** **3 (3-0)**

This course provides instruction for freshmen who have demonstrated limited ability in communication skills. Content includes emphasis on grammar, word usage, mechanics, and basic expository writing. NOTE: Successful completion of this course is a prerequisite for ENG-10303 for students who have not demonstrated proficiency on the English placement test.

DEV 09301 Study Skills **(V)** **1 (1.5-0)**

This course will assess students' study habits. Students will learn note-taking, test-taking, memory improvement, time management, and how to reduce anxiety. Students will explore college life and methods to cope with it through group counseling activities.

DEV 09601 College Reading Skills **(F,W,S)** **3 (3-0)**

This course focuses on identifying each student's strengths and problems as a learner and using that information to improve reading and study skills. It also emphasizes goal setting, time management, critical reading/thinking, vocabulary building, and reading faster while understanding more.

ECONOMICS (ECO)

ECO 20100 Prin of Economics-MACRO (F) 3 (3-0)

This is a one-semester basic economics course emphasizing national income determination, monetary and fiscal policy, and international trade. (This course may be taken before or after ECO-20200.) Prerequisite: DEV-09601. Prerequisite or corequisite: ENG-10303. Recommended Prerequisite: Sophomore standing. (Social Science Credit)

ECO 20200 Prin of Economics-MICRO (W) 3 (3-0)

This is a one-semester course that concentrates on supply and demand analysis, theory of the firm, and the pricing of factors of production. (This course may be taken before or after ECO-20100.) Prerequisite: DEV-09601. Prerequisite or corequisite: ENG-10303. Recommended Prerequisite: Sophomore standing. (Social Science Credit)

EDUCATION (EDU)

3 (2-1)

This course explores teaching as a career. Along with understanding the requirements of obtaining a degree and a job in teaching, students will develop a knowledge of current issues and problems in education. Observation techniques will be presented that the student will apply to guided classroom observation and participation for each student in accordance with the student's schedule. Prerequisite or corequisite: ENG-10303.

3 (3-0)

This course focuses on child growth and development from birth to age 12 with emphasis on establishing a safe, healthy learning environment for children. Ways to support positive social development, teaching strategies for positive guidance, and establishing/maintaining a safe, healthy, appropriate learning environment will be provided.

3 (3-0)

This course will provide materials, knowledge, and hands-on experience in ways to nurture cognitive, motor, language, and creative process skills in children. Emphasis will be placed on advancing physical and intellectual development in young children. NOTE: A minimum of 25 hours of fieldwork required outside of class. Prerequisite or corequisite: EDU-11500.

3 (3-0)

This course is designed to provide students with a vehicle for attainment of the Child Development Associate Credential. Students will by the end of the course have demonstrated through practical application and written work, competencies in thirteen functional areas of Child Development. In addition they will have completed the observations, training, and professional documentation necessary for attainment of the Child Development Associate Credential. Prerequisite: advisor or instructor approval - NOTE: The following prerequisites are required by the CDA Council to apply for CDA Certification: Must be 18 years of age or older, must have High School Diploma or GED, must be currently employed in a child care setting and have spent a minimum of 480 hours caring for children in the last five years.

3 (3-0)

This course addresses program management, parent partnerships, and professionalism. Emphasis will be placed on positive and productive relations with families, ensuring a well-run and purposeful program responsive to needs and understanding professional commitment. Prerequisite: EDU-11500. Corerequisite: EDU-13000.

3 (3-0)

Students will learn to operate a wide variety of technology-based equipment; select and assess instructional media materials, courseware, and software; and integrate technology and media into K-12 education.

ENGINEERING DESIGN TECHNOLOGY (EDT)

EDT 10000	Engineering Graphics	(F)	3 (3-0)
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Engineering Graphics will introduce students to the manufacturing design language of our industrial world. Topics will include lettering, sketching, orthographic projection, auxiliaries, sections, and dimensioning layout. This class is intended for students who have no prior experience with drafting fundamentals.

EDT 11000	Detailing w/AutoCAD	(F,W)	3 (2-2)
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Detailing with AutoCAD is intended to instruct students in the fundamentals of two-dimensional, computer-aided drafting. Topic areas will include orthographic, auxiliary, and section view drawings with an emphasis on dimensioning techniques common to industry. Assignments will be completed on a computer using AutoCAD software. Prerequisite: EDT-10000, or permission of instructor.

EDT 12000	3D Parametric Solids w/Solidworks	(F)	3 (2-2)
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3D Parametric Solids is the creation of virtual parts within a three-dimensional computer-drafting program. Instructional emphasis will be placed on parametric model creation, associative assemblies, and drawing layout. Other topics will include Mechanisms and Gear Calculations. Assignments will be created using the Solidworks Software Program.

EDT 13000	Fundamentals of MasterCAM	(F,W)	3 (1.5-1.5)
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Fundamentals of MasterCAM is designed to give students a working knowledge of the MasterCAM software. Topics will include 2D and 3D line drawing, solids, and tool path geometry. Assignments will be completed on the MasterCAM computer-drafting program. Prerequisite: EDT-10000, or permission of instructor.

EDT 14000	Architectural Drafting/CAD	(W)	4 (2-2)
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In Architectural Drafting, students will prepare complete sets of residential and/or light commercial working drawings. Students will complete assignments with a computer-aided drafting system. Prerequisite: EDT-11000, or permission of instructor.

EDT 15000	Quality Assurance Methods	(F,W)	3 (3-0)
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Quality Assurance Methods is a study of the main quality methods used in problem solving for many commercial and industrial applications. Students will be introduced to the variety of uses of Statistical Process Control (S.P.C.), and Total Quality Management. Students will develop an understanding of the principles of S.P.C. and the ability to use S.P.C. through study materials, demonstrations, preparation of control charts, team assignments, and problem-solving exercises.

EDT 20500	Descriptive Geometry	(F)	3 (3-1)
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Descriptive Geometry is the study of graphic methods for solving mathematically based problems. Emphasis will be placed on: fundamental views of true length and point view of a line; edge view and true size/shape of a plane; and measurement of slope (dip) and bearing (strike). Additional topics will include: skewed lines; pierce points and plane intersections; perpendicular relationships; dihedral angles; revolution; intersection and developments; and topographic and civil drawings. Students will complete some assignments on a computer aided drafting system. Prerequisite: EDT-11000 or EDT-14000.

EDT 21000	Geometric Dimensioning/Tolerancing	(F)	3 (3-0)
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Geometric Dimensioning and Tolerancing (GD&T) is a study of the concepts adopted by the American National Standards Institute (ANSI) and published by The American Society of Mechanical Engineers (ASME) for engineering and related documentation practices. The standard is titled ASMEY14.5M-1994 Dimensioning and Tolerancing. This class can be considered as a source of formal training in the above standard. Prerequisite: EDT-11000 or EDT-12000, or permission of instructor.

EDT 21500	Tool Design Fundamentals	(W)	3 (3-0)
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Tool Design Fundamentals is the study of the equipment and processes that make our industrial system of mass production and interchangeability possible. Students will solve typical design problems in several areas of design. The principles learned here can be applied to larger and more complicated transfer, assembly, testing, and special machine tools in industry.

EDT 22000	Engineering Design Problems	(W)	3 (3-1)
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Engineering Design Problems will focus on the process of reverse engineering. Students will break down existing components, model all parts, re-assemble them, and create working drawings. Time will also be spent determining how designs can be improved. This class is designed to give students a large amount of experience creating models and related drawings. Teamwork and leadership skills will also be emphasized through a class wide project. This class is intended to be taken in the final year of the students program. Prerequisites: EDT-11000 and EDT-12000, or permission of instructor.

EDT 24000	Architectural Drafting/CAD II	(W)	4 (2-2)
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This course will require each student to develop CAD drawings for residential construction of a multi-story dwelling. The student will explain the calculations for beams, trusses, floors, walls, and ceilings. The dwelling will have complex roof pitches. A presentation of the final project will be made to the other students in the course. Prerequisite: EDT-14000.

EDT 25000	Statistical Proc Control Problems	(W)	2 (2-1)
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Statistical Process Control Problems is an advanced study of uses of Statistical Process Control (S.P.C.) and Total Quality Management. Students will use the principles of S.P.C. through study materials, demonstrations, preparation of control charts, team assignments, and problem-solving exercises. Advanced studies will include attribute charts and process capability studies. Other current trends in industry will also be discussed. Prerequisite: EDT-15000 or permission of instructor.

EDT 275-- Directed Study-Engineering Design Technology (V) 1-6 (-)

This course is designed to meet special occupational needs for individual students. Prerequisite: permission of instructor.

ENGLISH & LITERATURE (ENG)

ENG 10000 Writing Lab (F,W,S) 1 (1-1)

This course provides personalized, competency-paced instruction in writing skills. Because this is part of the English composition requirement, most students will take this course while enrolled in ENG-10303. (Communication)

ENG 10303 English Composition I w/Computers (F,W,S) 3 (3-0)

This course is a study, through extensive practice, of various modes of expression, organization, and development in expository essays, designed to develop the student's ability to think critically and write effectively. Students prepare their writing using microcomputers. Prerequisite: DEV-09000 or a satisfactory writing sample, and DEV-09601 or a satisfactory reading placement. (Communication)

ENG 10403 English Composition II w/Computers (F,W,S) 3 (3-0)

A continuation of English Composition I, this course emphasizes writing analytical, critical, and argumentative essays and developing effective thinking skills. The course provides practice in library methods, research techniques, and the documented research essay. Students prepare their writing using microcomputers. Prerequisite: Satisfactory (C- or above) completion of ENG-10303. (Communication)

ENG 10602 Technical Writing w/Computers (W) 3 (3-0)

Students will learn techniques for collecting and presenting technical data through preparation of informal and formal reports and technical papers and through the study of forms and procedures to establish a general pattern for all technical reports. Students prepare their writing using microcomputers. Prerequisite: Satisfactory (C- or above) completion of ENG-10303.

ENG 12000 Journalism I (F,W) 3 (3-0)

This introduction to journalism includes techniques of news gathering and news writing as well as issues such as accuracy, fairness, laws, and ethics. Current newspaper, radio, television, and Internet news sources are also examined. Prerequisite: Satisfactory (C- or above) completion of ENG-10303 or permission of instructor. (Humanities Credit - Journalism)

ENG 12100 Journalism II (F,W) 3 (3-0)

This course provides an in-depth look at journalistic news gathering and news writing. Special areas studied include police and courtroom news, sports reporting, environmental news, and opinion columns. Prerequisite: Satisfactory (C- or above) completion of ENG-10303 or permission of instructor. (Humanities Credit - Journalism)

ENG 125-- Journalism Practicum (F,W) 1-4

Students work with the advisor as staff members of the college news magazine in one area of reporting, editing, photography, desktop publishing, advertising sales, or a combination of these areas. The course may be repeated up to a maximum of four credit hours. Prerequisites: ENG-12000 and ENG-12100 or permission of instructor. (Humanities Credit - Journalism)

ENG 21400 Intro to Literature (W) 3 (3-0)

This course considers the expression in literature of such universal themes in human experience as the loss of innocence, the search for identity, the desire for happiness, and the confrontation with death through the study of selected essays, fiction, poetry, and drama. Prerequisite: Satisfactory (C- or above) completion of ENG-10303 or permission of instructor. (Humanities Credit - Literature)

ENG 21500 Creative Writing (F,W) 3 (3-0)

This course provides study and practice of imaginative writing in poetry, fiction, and personal essay. Half the class time will be used in workshop format, sharing work for group comment and critique. The other half of class time will be used to discuss contemporary creative works and essays by writers. Prerequisite or corequisite: ENG-10303 or permission of instructor. (Humanities Credit - Creative Writing)

ENG 22500 Contemporary Literature (S) 3 (3-0)

Students will study works of selected authors of the 20th century. Prerequisite: Satisfactory (C- or above) completion of ENG-10303 or permission of instructor. (Humanities Credit - Literature)

- ENG 22800 Mythology (F) 3 (3-0)**
 A cross-cultural and historical survey of the world's myths, the class will also consider such questions as the meaning of myth, the purposes and functions of myth, theories of how myths originate, and ways that myths have been analyzed and interpreted. Prerequisite: Satisfactory (C- or above) completion of ENG-10303. (Humanities Credit - Literature)
- ENG 23000 American Literature Before 1865 (F) 3 (3-0)**
 This course surveys the growth and development of America's literature from its beginnings to the Civil War. Representative authors may include Bradstreet, Franklin, Irving, Cooper, Poe, Hawthorne, Thoreau, Melville, Whitman, and others. Prerequisite: Satisfactory (C- or above) completion of ENG-10303 or permission of instructor. (Humanities Credit - Literature)
- ENG 23100 American Literature After 1865 (W) 3 (3-0)**
 This course is a survey of the growth and development of America's literature from the Civil War to the present day. Representative authors may include Twain, James, Frost, Eliot, O'Neill, Hemingway, Faulkner, Welty, Bellow, and others. Prerequisite: Satisfactory (C- or above) completion of ENG-10303 or permission of instructor. (Humanities Credit - Literature)
- ENG 23200 English Literature (F) 3 (3-0)**
 This course will cover the major periods in English literature: Old English, Middle English, Sixteenth Century, Seventeenth Century, Restoration and Eighteenth Century, the Romantic Period, the Victorian Age, and the Modern Age. This course is designed for non-English majors, relying on class discussion with instructor lectures. Prerequisite: Satisfactory (C- or above) completion of ENG-10303 or permission of instructor. (Humanities Credit - Literature)
- ENG 251-- Topics in Literature (W) 3 (3-0)**
 This course is a study of a significant literary topic and may cover genres, literary figures, subjects, or themes. The class may be repeated for credit if the topics are different. Prerequisite: Satisfactory (C- or above) completion of ENG-10303 or permission of instructor. (Humanities Credit - Literature)
- ENG 29100 Poetry Workshop I (W) 3 (3-0)**
 This course is a workshop-oriented class for advanced poetry writing. Students will be expected to write poems in a variety of forms, discuss each other's work intelligently, and read contemporary poetry. Students are also expected to develop a manuscript of finished poems and work on Controlled Burn. Prerequisite: ENG-21500. (Humanities Credit - Creative Writing)
- ENG 29200 Fiction Workshop I (W) 3 (3-0)**
 This course is a workshop-oriented class for advanced fiction writing. Students will be expected to write three to five stories in various voices or work on a novel, discuss each other's work intelligently, and read contemporary fiction. Students are also expected to develop a manuscript of fiction and work on Controlled Burn. Prerequisite: ENG-21500. (Humanities Credit - Creative Writing)
- ENG 29300 Poetry Workshop II (W) 3 (3-0)**
 This course furthers students' pursuits in the study of poetry through workshop and in individual conferences with the instructor. Prerequisite: ENG-29100. (Humanities Credit - Creative Writing)
- ENG 29400 Fiction Workshop II (W) 3 (3-0)**
 This course is designed to allow students to develop their craft in fiction writing through workshop and individual conferences. Prerequisite: ENG-29200. (Humanities Credit - Creative Writing)

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL 01000 Eng as a 2nd Lang/Beginning

(F,W)

3 (3-0)

This self-instructional course addresses the needs of an international student who is minimally conversant in English. The course concentrates mainly on oral communication. The class involves independent listening to audiotapes and language practice with a native-speaking tutor/trainer for three hours per week. A minimal amount of grammar and textbook reading may also be introduced. Prerequisite: approval of instructor, based on a personal interview and/or writing sample.

ESL 05000 Eng as a 2nd Lang/Intermediate

(F,W)

3 (3-0)

This course addresses the needs of an international student who can converse and read in English. The class combines two-page readings, discussion, vocabulary and grammar practice, as well as sentence and paragraph writing. Prerequisite: approval of instructor, based on a personal interview and/or writing sample.

ESL 06000 Eng as a 2nd Lang/High Intermediate

(F,W)

3 (3-0)

This course addresses the needs of an international student who can converse, read, and write short paragraphs in English. The class focuses mainly on the writing of 200-400 word essays. This course prepares the student to take ENG-10303. Prerequisite: ESL-05000 or permission of instructor, based on a personal interview and a writing sample (placement test).

GEOGRAPHY (GEO)

GEO 10000 World Geography

(W,S)

4 (4-0)

This course provides description and analysis of basic geographic concepts as they relate to the major world regions, and the distribution patterns of various social, economic, and cultural activities of man. Prerequisite or corequisite: ENG-10303. (Social Science Credit)

GEOLOGY (GEL)

GEL 10500 Physical Geology

(F)

4 (3-2)

This lecture and laboratory course examines earth materials and the internal and external processes acting on them. Among the topics to be discussed are rocks and minerals, vulcanism, accretion, and the agents of erosion. Laboratory studies include rock and mineral identification and interpretation of topographic maps, geologic maps, and aerial photographs. (Science Credit)

HISTORY (HIS)

HIS 10500 History of World Societies to 1500 (F) 3 (3-0)

This course provides a historical survey of the origins and development of human communities from their prehistoric origins to the 16th century. Emphasis is given to similarities, differences, and interrelationships among selected societies, cultures, and civilizations. Prerequisite or corequisite: ENG-10303. (History Credit)

HIS 10600 Hist of World Societies Since 1500 (W) 3 (3-0)

This course is a historical survey of the human community from approximately 1500 to the present. Emphasis is given to the nature, cause, and consequences of the current phase of global integration. Prerequisite or corequisite: ENG-10303. (History Credit)

HIS 20100 United States History to 1865 (F) 3 (3-0)

This course is a survey of the history of the United States from its European background through the Civil War, with special emphasis on the colonial period and the Revolution, the rise of the federal system of government, the growth of democracy, territorial expansion, sectionalism and the Civil War. Prerequisite: sophomore standing. Prerequisite or corequisite: ENG-10303. (History Credit)

HIS 20200 United States History Since 1865 (W) 3 (3-0)

A continuation of HIS-20100, this is a survey of United States history from 1865 to the present, starting with the aftermath of the Civil War, emphasizing industrial growth, social changes, and reforms, 20th-century political trends, international commitments, and leadership. Recommended prerequisite: HIS-20100. Prerequisite or corequisite: ENG-10303. (History Credit)

HIS 20300 Michigan History (F) 3 (3-0)

This course provides a survey of the history of Michigan from the coming of the white man. The history of the state is placed in its regional and national setting. Prerequisite or corequisite: ENG-10303 or permission of instructor. (History Credit)

HIS 20400 The American Civil War (W) 3 (3-0)

This course examines the origins and outcomes of the sectional conflict that split the United States in two from 1861 to 1865. Emphasis is given to social, political, and military events from the 1840s to the end of Reconstruction. Prerequisite or corequisite: ENG-10303. (History Credit)

HONORS (HON)

HON 225-- Honors Project**(V)****1-3**

A significant project over and above the typical course requirements which may be undertaken in connection with any regular Kirtland course, the Honors project may involve the student in primary or secondary research, writing, internship, service-learning opportunities, or other possible activities. All proposed honors projects must be approved by the Honors Program committee. Projects may earn from one to three credits. Students may achieve more than three credits in honors projects, but no more than three credits may be applied toward the honors degree. Prerequisites: admission to the Honors Program; permission of the instructor and the Honors Program committee.

HON 250-- Honors Colloquium**(W)****3 (3-0)**

This is an interdisciplinary course that examines a significant topic or theme. Through such activities as reading, discussion, research, writing, and speaking, students will explore this topic from a variety of academic perspectives. Prerequisites: admission to the Honors Program and sophomore standing, or permission of instructor and the Honors Program committee.

HUMANITIES (HUM)

HUM 20500 The Individual and Society

(F,W)

3 (3-0)

This course examines the perspectives of many social sciences and cultures in order to appreciate the mosaic of American and other societies from a variety of points of view. As several key current social issues and controversies are studied, students will work to illuminate an understanding of their own place in their communities, the larger society, and the modern world. Prerequisite or corequisite: ENG-10303. (Humanities Credit)

MANUFACTURING TECHNOLOGY (MPT)

MPT 10272	Machine Tool Safety	0.17
Safety is the most important concern in the machine shop. This course will give you an overview of safe work practices, safe clothing, personal safety, fire prevention in the shop, hand tool safety, and machinery safety.		
MPT 10273	Identifying Surface Finishes	0.08
This course gives consideration to surface smoothness wherever two machined surfaces come into contact with each other. This packet will help the learner identify factors which contribute to the quality of surface finish and give the learner practice in identifying surface finishes.		
MPT 10274	Shop Math - Speeds and Feeds	0.21
This course will teach the learner how to accurately calculate cutting speeds, RPM, and feeds for the purpose of cutting metal.		
MPT 10275	Sharpening Drill Bits	0.25
In this course the learner will learn how to sharpen a drill bit by hand.		
MPT 10276	Drilling on a Press	0.17
In this course the learner will be taught how to drill holes in a work piece on the drill press.		
MPT 10277	Power Tap on the Drill Press	0.25
In this course the learner will be taught the proper steps and how to power tap on the drill press.		
MPT 10278	Drill Press Project	0.58
In this course the learner will use several drilling operations to complete a drill vise to print specifications.		
MPT 10279	Band Saw Blade Welding	0.25
In this course the learner will develop the skill of welding a band saw blade.		
MPT 10280	Vertical Band Saw Project	0.25
In this course the learner will be taught how to select, mount, cut and weld band saw blades. The student will also learn how to saw pieces to meet specifications.		
MPT 10281	Maintaining the Lathe	0.17
In this course the student will be introduced to the lathe, its basic parts and accessories. The student will also learn lathe safety procedures and maintenance.		
MPT 10282	Grinding Lathe Tools	0.25
In this course the student will learn how to sharpen lathe tools.		
MPT 10283	Facing on the Lathe	0.21
In this course the student will learn how to face the ends of a work piece to a specified length.		
MPT 10284	Aligning Lathe Centers	0.17
In this course the student will learn how to align the centers of the lathe using the trial cut method.		
MPT 10285	Cutting External Threads	0.5
In this course the student will learn about threads and thread forms and how to chase an external thread.		
MPT 10286	Dial In Vise/Tram in Head	0.21
In this course the student will learn the processes of a milling machine.		
MPT 10287	Fly Cutter & End Mill/Square Block	0.21
In this course the student will learn how to square a block of material on all 6 sides.		
MPT 10288	Digital Read/Drill, Tap, & Ream	0.25
This course will teach the learner how to use the digital readout to locate part coordinates to the print specifications.		

MPT 10289	Parallel Turning on the Lathe	0.21
This course will instruct the learner in turning work on the lathe to "rough" and "finish" quality.		
MPT 10290	Groove and Part on the Lathe	0.13
This course will teach the student to cut grooves and cut off stock on the lathe.		
MPT 10291	Cutting Internal Threads	0.42
This course will instruct the student in how to cut internal screw threads.		
MPT 10292	Knurling on the Lathe	0.13
In this course the student will learn how to knurl on the lathe.		
MPT 10293	Sharpen End Mills (End)	1
This student will gain an understanding of the principles of sharpening the ends (of faces) of end milling cutters. This skill will be developed through reading and hands-on practice on a Cutter and Tool Grinding Machine using the associated tools and fixtures.		
MPT 10295	Tilt Head and Turn Vise/Cut "V"	0.5
This course will instruct the learner how to turn the swivel vise to cut a 30 degree "V" with a .250 radius and then tilt the head to cut a 90 degree "V" in a block of C.R.S. (Cold Rolled Steel), also referred to as "Mild Steel" or "Machine Steel."		
MPT 10296	Turntable/Cut Radii	0.33
This course will show the student how to "set-up" the turntable and cut radii.		
MPT 10297	Sine Plate/Cut Angles	0.33
This course will show the student how to use the sine plate accessory to cut angles on a piece of steel using the vertical milling machine.		
MPT 10298	Boring Head/Bore 4 Holes	0.33
This course will show how to use the boring head to bore holes into a piece of steel using the lay-out drilling machine (also called a "Jig Borer").		
MPT 10299	Indexing Head/Key Ways	0.17
This course will show the student how to use the indexing head to cut keyways and keyseats with a vertical milling machine. The indexing head locks in increments of 15 degrees with the locating pin, but can be set and locked at any degree with the lever lock.		
MPT 10302	Square and Block (6 Sides)	0.25
This course will teach the student safety precautions pertaining to grinders; how to select a grinding wheel, how to care for a grinding wheel; how to dress a grinding wheel; how to grind a magnetic chuck; how to grind a block square to print tolerances.		
MPT 10303	Grind Angles and Radii	0.5
This course will teach the student how to grind angles on a part by using a sine bar/sine plate; how to grind angles on a part by forming the grinding wheel; how to grind internal and external radii on a part by forming the grinding wheel with a radius dresser.		
MPT 10304	Parallel Grind to Print	1
This course will teach the student the proper way to parallel grind (on cylindrical grinders) by completing projects to print specifications.		
MPT 10305	External/Internal Tapers	0.5
This course will teach the student the proper way to grind external and internal tapers on a cylindrical grinder by completing two projects to print specifications within tolerance.		
MPT 10306	CNC Fundamentals	0.83
This module will provide the learner with knowledge of Computer Numerical Control (CNC) terminology and concepts.		

MPT 10307	Geometric Dimensioning & Tolerance	0.33
This module will help the student to build the ability to read and interpret GD&T symbols which provide increased information about the function and relationship of part features.		
MPT 10308	Micrometer	0.13
This course will teach the student how to read micrometers, care for micrometers, name the parts which make up micrometers, know the different types of micrometers, and know the "feel" involved when using contact measuring tools.		
MPT 10309	Calipers: Digital, Vernier, Dial	0.17
This course will teach the student how to read calipers, how to care for calipers, the names for parts which make up callipers, and the "feel" involved when using contact measuring tools.		
MPT 10310	Telescoping Gage	0.13
This course will teach the learner the proper way to accurately measure holes using a telescoping gage.		
MPT 10311	Depth Micrometer	0.13
This course will teach the student to measure the depths of holes and steps with a depth micrometer within +/- .001.		
MPT 10312	Dial Indicators	0.13
This course will teach the student to use the dial indicator correctly in a machining environment.		
MPT 10313	Gage Blocks	0.13
This course will introduce the learner to and help use gage blocks.		
MPT 10314	Machine Shop Trigonometry	0.67
This course will instruct the learner in identifying different math procedures and calculations using trigonometry to solve problems.		
MPT 10315	Height Gage	0.17
This course will provide the learner with practice using a height gage.		
MPT 10316	Sine Bar	0.17
The sine bar is used to establish or check angles when an accuracy of 5 minutes or less is required. This course will teach the learner to use the sine bar for precision measurement of angles.		
MPT 10317	CMM Fundamentals	0.25
The student will gain an understanding of coordinate measuring machine applications and measuring techniques used in manufacturing and quality environments. The student will solve problems pertaining to coordinate systems, geometric elements, alignments, probe styles, coordinate measuring machine construction, and trends in metrology.		
MPT 10318	CMM Part Inspection	0.67
The student will gain an understanding of coordinate measuring machine applications and measuring techniques by performing inspections on various parts using the coordinate measuring machine, and will document dimensions of various part features. Student will practice and demonstrate measuring techniques on a manual CMM to identify numerous part geometries. Student will work with coordinate systems, geometric elements, alignments, touch probes, and CMM software.		
MPT 10364	Cut Radius and External Tapers	0.5
The student will learn to machine an external taper using the taper attachment.		
MPT 10408	Math for Dividing Head	0.17
This course will show the learner how to calculate simple and direct indexing.		
MPT 10409	Dividing Head/Cut Gear	0.42
This course will teach the student how to use the Dividing Head to cut a gear after preparing the work piece on the lathe and broach a keyway to fit an arbor.		

MPT 20319	Prop of Metals/Physical Metallurgy	0.13
This course will instruct the learner in examining and identifying the different properties of metals and their applications for different jobs.		
MPT 20320	Constitution of Alloys	0.17
This course will instruct the learner in examining and studying the purpose of alloys in a given material.		
MPT 20321	Carbon and Alloy Steels	0.13
This course will teach the student the range of possible types of steels, their properties, and their uses.		
MPT 20322	Heat and Surface Treat for Steel	0.13
This course will instruct the learner in examining and studying the heat treat process and what it does to metals properties.		
MPT 20323	Cast Irons	0.13
This course will instruct the learner in examining and identifying what makes cast iron desirable for machining and construction purposes.		
MPT 20324	Light Metals and Alloys	0.13
This course will provide the learner with knowledge of light metals and alloys and their applications.		
MPT 20325	Lead, Tin, and Zinc	0.13
This course will provide the learner with knowledge of lead, tin, and zinc, their properties, and their applications.		
MPT 20326	Introduction to Metallurgy	0.46
This course will assist the welding student in developing a solid background in metallurgy.		
MPT 20327	Examining and Identifying Metals	0.13
This course will provide information that the learner may use to examine and identify the metal being welded.		
MPT 20328	Fund of Welding & Brazing/Casting	0.13
This course will provide information that the student may use to examine and identify cast iron.		
MPT 20329	Fund of Welding Stainless Steel	0.13
This course will provide information that the student may use to examine and identify stainless steel.		
MPT 20330	Testing Metals	0.42
This course will instruct the student in examining and identifying different inspection methods and metal processes.		
MPT 20331	Machinery Handbook	0.17
This module will familiarize the learner with the Machinery's Handbook.		
MPT 20332	Machine Tool Blueprint Reading	0.83
This module will introduce the learner to blueprints and drawing techniques which will be built upon with further modules in the program.		
MPT 20333	Basic Shop Math	0.67
This module will instruct the student in whole numbers, fractions, decimals, inch/millimeter conversions, and percentages.		
MPT 20334	Machine Tool Math	0.75
This course covers equations and formulas, exponents and roots, lines and angles, triangles, quadrilaterals, hexagons, circles, right triangles, special applications of trigonometry functions, and oblique triangles.		
MPT 20335	Machinist Scale	0.08
In this course the learner will develop skill in the use of the machinist's scale (rule) used for rough measurements and laying out work pieces for machining.		

MPT 20336 Dividers	0.08
The dividers are a measuring device even though they have no scales to read. One of the important uses of the dividers is transferring measurements from a drawing to the work piece. Because of the methods used to reproduce drawings, you cannot use a machinist's scale or the dividers directly on the drawing. In this course, the learner will learn to transfer measurements from the scale to the work piece.	
MPT 20337 Spring Calipers	0.08
In this course, the learner will learn how to use the two common types of calipers, inside and outside calipers.	
MPT 20338 Combination Square	0.08
This course will instruct the learner in drawing angles and lines on a piece of metal and how to layout the center of a piece of round stock. The learner will use a set of tools called the combination square set to scribe angles and straight lines.	
MPT 20339 Legged Calipers (Hermaphrodite)	0.08
This course will teach the learner how to use the hermaphrodite caliper to scribe parallel lines and find the center of round stock.	
MPT 20340 Surface Gage	0.08
This course will instruct the learner in scribing lines on a vertical surface with a surface gauge.	
MPT 20366 EDM Fundamentals	0.29
This course examines and identifies the EDM process, applications, theory and various tooling components.	
MPT 20367 EDM Project	0.5
The student will design and build an electrode. After machining the electrode, the student will complete a project (using the electrode) in the EDM machine.	
MPT 20368 Universal Indexing Head	0.5
The milling machine has many accessories. This module will show you how to use the Universal Indexing Head. This Head can be turned 180 degrees around in increments of 15 degrees and from horizontal to perpendicular in increments of one degree.	
MPT 20369 CNC Turning	1.67
Upon completion of this module, you will be able to demonstrate competency in the following skills: safety with CNC lathes, CNC Lathe machine components, functions and operations, coordinate systems, axis addresses & positioning, tooling identification, work holding, tool offsets, tool life data, operator controls, loading and editing part programs, establishing program zero, establishing the safe index point, reference point return, machine zero, machine set-up, machine start up, machine home, programming methods, modal and non-modal codes, on-line and off-line programming, reading and writing EIA/ISO part programs, reading and writing conversational part programs, cutter diameter compensation, canned cycles, circular interpolations, writing various programs and producing quality parts.	
MPT 20370 CNC Milling	1.67
Upon completion of this module, you will be able to demonstrate competency in the following skills: safety with CNC Mills, CNC Mill machine components, functions and operations, coordinate systems, axis addresses & positioning, tooling identification, work holding, tool offsets, tool life data, operator controls, loading and editing part programs, establishing program zero, establishing the safe index point, reference point return, machine zero, machine set-up, machine start up, machine home, programming methods, modal and non-modal codes, on-line and off-line programming, reading and writing EIA/ISO part programs, reading and writing conversational part programs, cutter diameter compensation, canned cycles, circular interpolations, writing various programs and producing quality parts.	
MPT 20371 Precision Vise	2.08
This course will prepare you to demonstrate all of the machining skills needed to produce a precision vise that meets print specifications.	
MPT 20372 1-2-3 Blocks	1
This module will instruct the learner in all of the machining skills needed to produce 1-2-3 blocks.	

MPT 20373	Tool Makers V-Blocks	1.67
This module will instruct the learner in all of the machining skills needed to produce Toolmakers V-Blocks.		
MPT 20374	Transformation of American Ind. #1	0.33
In this course the student will gain an understanding of the principles of Statistical Process Control (SPC).		
MPT 20375	Deming on Quality & Productivity #2	0.33
In this course the student will gain an understanding of Deming's principles on quality and productivity.		
MPT 20376	Model for Quality/Product Impvmt #3	0.33
In this course the student will gain an understanding of the principles of a model for quality/productivity improvement.		
MPT 20377	Project Selection #4	0.33
In this course the student will gain an understanding of some of the principles used in project selection.		
MPT 20378	Data Gathering & Problem Solving #5	0.33
In this course the student will gain an understanding of the principles of data gathering and problem solving.		
MPT 20379	Data Analysis and Interpretation #6	0.33
In this course the student will gain an understanding of data analysis and interpretation.		
MPT 20380	Process Control X-Bar & R-Charts #7	0.33
In this course the student will gain an understanding of process control x-bar and r charts.		
MPT 20381	Process Capability #8	0.33
In this course the student will gain an understanding of the project implementation: process capability.		
MPT 20382	Median and Individual Charts #9	0.33
In this course the student will gain an understanding of the proper use of median and individual charts.		
MPT 20383	Attribute Charts #10	0.33
In this course the student will gain an understanding of the proper use of attribute charts.		
MPT 20384	Project Evaluation #11	0.33
In this course the student will gain an understanding of the principles of the project evaluation format.		
MPT 20385	Continuing Improvement Strategy #12	0.33
In this course the student will gain an understanding of some continuing improvement strategies.		
MPT 20386	Reaming on the Drill Press	0.13
This course will teach the learner to ream holes using a drill press and reamer.		
MPT 20387	Counterbore/Sink, Spot-Face	0.21
In this course, the learner will receive instruction in counterboring and spot facing.		
MPT 20388	Hand Tap on the Drill Press	0.21
In this course the learner will receive instruction on hand tapping on the drill press.		
MPT 20389	Boring Internal Tapers	0.67
In this course the learner will be instructed on how to bore and cut a tapered hole on the lathe.		
MPT 20390	Lathe Project	1.25
In this course, the learner will have an opportunity to apply the skills in lathe operation gained in previous lathe modules.		
MPT 20391	Horizontal Milling/Saw Slot	0.17
This course will show the learner how to set-up the horizontal attachment on a vertical milling machine and saw a slot in a piece of steel using the horizontal milling method.		

MPT 20392	5C Collet Holders/Cut Square & Hex	0.33
This course will instruct the learner in machining a set of T-bolts to print specifications.		
MPT 20393	Make Dove Tails	0.67
This course will help you learn to machine external and internal dovetails.		
MPT 20394	Mill Project	1.25
This course will provide the learner with an opportunity to perform a variety of milling machine operations on a work piece.		
MPT 20395	Complete Two Projects to Print	1.58
In this course the learner will develop the skills necessary to grind complex parts to print specifications using various machines, tooling and fixturing.		
MPT 20397	Sine Bar Project	0.83
Upon completion of this course the learner will be able to demonstrate all of the machining skills needed to produce a Sine Bar.		
MPT 20398	CNC Advanced Programming	2.08
This course will instruct the learner in the proper way to successfully program a CNC machine.		
MPT 20399	Sharpen End Mills (Sides)	1
In this course the student will gain an understanding of the principles of sharpening the sides (or periphery) of end milling cutters.		

MARKETING (MKT)

MKT 11000 Prin of Selling (F) 3 (3-0)

This course covers principles and techniques employed by successful salesmen, with emphasis on how to sell rather than how to manage.

MKT 11500 Customer Relations (W) 3 (3-0)

This course examines the role of Customer Relations in the economy with emphasis on customer relations in business and organizations that have considerable dealings with the public. The class addresses the four C's of excellent customer service, dealing with difficult people, handling angry customers, developing service strategies, customer service habits to develop, do's and don'ts of customer service, customer service on the web, and culminates with the student's development of a customer relations policy and program for their 'chosen' organization.

MKT 20000 Principles of Marketing (F) 3 (3-0)

This course covers the managerial approach to the marketing process. This includes marketing and business management, the role of the consumer, marketing structure, merchandising, support functions, and product flow.

MKT 20100 Prin of Retailing (F) 3 (3-0)

This course emphasizes the theory of retailing and its application to business problems. The course covers retail structure, consumer analysis, store operation (organization, management, and control), personnel, merchandising, and sales promotion. Students are required to complete a retail store plan.

MKT 20200 Internet Marketing (W) 3 (3-0)

This course focuses on marketing in electronic environments primarily on the Internet, on one or more of its services (WWW, email), or offline by enterprises that produce and sell Internet-related products. The focus is on the synergy created when traditional marketing is performed in electronic environments that greatly reduce or eliminate time and space constraints, facilitate personalization and customization and allow the interoperability of computers and other devices. Prerequisite: CIS-10500, or equivalent, or permission of instructor; and MKT-20000, or equivalent, or permission of instructor.

MKT 20400 Advertising (W) 3 (3-0)

This course addresses the social value of advertising and its role in marketing. Analysis of behavioral scientists' findings in regard to customer appeals and motivations, window display techniques, and principles of advertising copy and layout are conducted.

MASSAGE THERAPY (MAS)

MAS 10000	Intro to Massage Therapy	(F,W)	1 (1-0)
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This introductory course provides the student with a basic overview of massage therapy. Through lecture, discussion, demonstration, and hands-on practice, the student will learn the benefits of massage, basic massage strokes, contraindications, and an overview of different bodywork systems. Time will also be devoted to the history and trends of massage therapy.

MAS 10200	Intro to Clinic Operations	(W)	1 (1-0)
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This course will prepare the student to practice in the KCC Clinic as both a massage therapist and as a receptionist. Upon completion of this course, the students will demonstrate the physical, bookkeeping, time management, client processing, and sanitation and hygiene requirements of the KCC clinic operation.

MAS 10300	Swedish Massage I	(W)	2 (1.5-1.5)
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Swedish massage is considered to be the foundation of most modern massage techniques. This course focuses on applying the anatomy and physiology knowledge gained in BIO-10701 and BIO-10702, as well as building skills in manipulations and the necessary support skills. These include body mechanics; positioning and draping; communication; hygiene, safety, and sanitation; sequence and flow; range of motion; and preparation for the Kirtland clinic experience. Prerequisite: BIO-10701 and BIO-10702.

MAS 10400	Swedish Massage II	(S)	2 (1.5-1.5)
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Swedish Massage II is a continuation of Swedish Massage I. This course is designed to build skills in manipulation and necessary support skills as described in Swedish I. This course focuses on applying the anatomy and physiology knowledge gained in ALH-12401, BIO-10701, BIO-10702, and MAS-10300 in building skills in manipulations and the necessary support skills, including body mechanics; positioning and draping; communication; hygiene, safety, and sanitation; sequence and flow; range of motion; and preparation for the KCC clinic experience.

MAS 11000	Massage Skills Lab	(W)	1 (0-1)
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This is a massage laboratory course designed to enable the student to practice massage skills and meet the requirements for graduation. The modular approach allows for individualized self-paced instruction. Corequisite: MAS-10300.

MAS 12200	Clinic I	(S)	2 (0-2)
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This laboratory experience enables the student to practice Swedish and structural-based techniques in a supervised setting. Prerequisite: MAS-10200 and MAS-12300.

MAS 12300	Structural Based Bodywork I	(W)	1 (1-0)
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This course will introduce the massage therapist to one of the most popular and versatile techniques—on-site, or chair, massage. Topics will include benefits of this type of massage, common conditions, special equipment and its use, techniques, managing the on-site environment, and business development. This course is recommended to professional massage therapists and individuals who have completed at least 100 hours of training. Corequisite: MAS-10200.

MAS 12401	Structural Based Bodywork II	(S)	3 (3-0)
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This course will introduce students to the specialty of sports/performance massage. Topics will include the benefits of sports massage, basic applications, specific techniques, and common conditions and injuries. Participation includes providing massage at the AuSable Canoe marathon. This course is recommended to professional massage therapists and individuals who have completed at least 100 hours of training. Prerequisite: MAS-12300.

MAS 12500	Structural Based Bodywork III	(F)	1 (1-0)
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Participants will learn patterns of body movement that promote grace and ease of movement, as well as the reduction of body stress. Prerequisite: MAS-12401.

MAS 12600	Energy Based Bodywork I	(F)	2 (1-1)
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This course introduces the student to energy-based bodywork techniques and their applications. Students will have an opportunity to explore systems such as reflexology, shiatsu, acupressure, therapeutic touch, and healing touch.
Prerequisite: MAS-10200.

- MAS 12700 Energy Based Bodywork II (F) 2 (1-1)**
 This course further develops the student's skill in using and integrating energy-based systems. The course includes an introduction to cranio-sacral techniques, as well as lecture, demonstration, and hands-on practice. The student will be assigned a client for a case study. Corequisite: MAS-12600.
- MAS 12801 Integrated Structural Dynamics (W) 2 (1-1)**
 This course is designed to assist the student in gaining greater knowledge of the human musculoskeletal systems via muscle identification, palpation, and assessment of movement. The material will be integrated into the coursework throughout the program. Prerequisites: ALH-10101, BIO-10701, and BIO-10702.
- MAS 13004 Topics I (W) 1 (1-0)**
 This course examines the issues of special populations served by the massage therapist (the elderly, the pregnant, infants, children, the disabled, survivors of abuse). Topics include appropriate techniques, common conditions, contraindications, marketing and professional development, identifying the special needs of the various populations, and practical experience under supervision.
- MAS 13005 Topics II (F) 1 (1-0)**
 This course will familiarize the student with modalities that can be integrated into the massage treatment. Students will explore the use of aromatherapy, hot and cold treatments, hydrotherapy, and specific techniques for specific conditions. Prerequisite: MAS-10400.
- MAS 13100 Clinic II (F) 2 (0-2)**
 This advanced laboratory experience provides an opportunity for the student to practice Swedish, structural, and energy-based massage techniques in a supervised environment. Prerequisite: MAS-12200.
- MAS 13500 Massage Practice (F) 1.5 (1.5-0)**
 This course examines career choices as a massage therapist. Topics include employment options, client retention, record keeping, marketing, and community education.
- MAS 27500 DS-Massage Therapy I (V) 2 (2-0)**
 This course enables the student to focus on his or her individual area of interest. Specialized areas of study and methods of study must be approved by the instructor. Prerequisite: MAS-10400 or permission of instructor.

MATHEMATICS (MTH)

MTH 11700 Mathematics / Elementary Teachers I (F) 3 (3-0)

A Mathematical course designed for prospective elementary teachers and for non-mathematics majors in the liberal arts curriculum. The course covers the modern concepts of mathematics taught in grades K-8. It places emphasis on set theory, problem-solving, numeration systems, operations on natural numbers and rational numbers, elementary number theory, and exercises using manipulatives. Prerequisite: ENG-10303. Corequisite: MTH12000. (Math Credit)

MTH 12000 Intermediate Algebra (F,W,S) 4 (4-0)

This course includes the study of the properties of real numbers, basic concepts of algebraic operations, solving and graphing linear and nonlinear functions, systems of equations, complex numbers, quadratic functions, factoring, rational expressions, and basic interpretations of tables and graphs of data. A graphing calculator is required. Prerequisite: requisite COMPASS test scores or MTH-10100. (Math Credit)

MTH 13000 College Algebra (F,W) 4 (4-0)

This is a one semester course designed to prepare students for the study of calculus. The topics to be covered include review of the fundamentals of algebra, relations, functions, solutions, of first- and second degree equations and inequalities, systems of equations, determinants, binomial theorem, mathematical induction, polynomial functions and theory of equations, analytic geometry and conic sections, geometric and arithmetical sequences and series, and miscellaneous topics. Calculators will be used for selected topics. Prerequisite: MTH-12000 or requisite COMPASS test scores. (Math Credit)

MTH 14000 Trigonometry (F,W) 3 (3-0)

This course includes the study of functions and their graphs, trigonometric functions, analytic trigonometry, applications of trigonometric functions, parametric and polar functions, vectors, and analytic geometry. Prerequisite: MTH-12000. (Math Credit)

MTH 20600 Application in Statistics (F,W) 4 (4-0)

This is an introductory course in statistics for any field in which the collection, analysis, interpretation, and presentation of numerical data are important. Topics include organization of data, types of distributions (binomial, normal, student t, chi-square), sampling, testing of hypotheses, confidence intervals, correlation, and regression. Additionally, the students will choose a project that will allow them to gain experience and demonstrate understanding of some of the statistical techniques or methods. A calculator is required. Computer software will be utilized. Prerequisite: MTH-12000 or higher. (Math Credit)

MTH 21700 Mathematics/Elementary Teachers II (W) 3 (3-0)

The second mathematical course designed for prospective elementary teachers and for non-math majors in the liberal arts curriculum. The course covers Decimals, percent, ratio/proportions, geometry (concepts and measurement), probability, statistics, introduction to Algebra, and exercises using manipulatives. Prerequisites: ENG-10303 and MTH-12000.

MTH 22002 Calculus I (F) 4 (4-0)

This is the first of a three-semester sequential course in analytic geometry and calculus. Topics include functions, limits, continuity, derivatives, integrals, and their applications. A graphing calculator is required. Prerequisite: MTH-13000 and MTH-14000; or requisite COMPASS test scores. (Math Credit)

MTH 22102 Calculus II (W) 4 (4-0)

This course is a continuation of MTH-22002. Topics include applications of integration, techniques of integration, L'Hopital's Rule, improper integrals, infinite series, conic section, plane curves, parametric equations, and polar coordinates. A graphing calculator is required. Prerequisite: MTH- 22002. (Math Credit)

MTH 22202 Calculus III (V) 4 (4-0)

This course is a continuation of MTH-22102. Topics include vector-valued functions, functions of several variables, multiple integration, and vector analysis. A graphing calculator is required. Prerequisite: MTH-22102. (Math Credit)

MTH 23000 Differential Equations**(V)****4 (4-0)**

This course includes the study of exact solutions of common types of first-order ordinary differential equations, linear equations of higher order, power series solutions, Laplace transforms, linear systems including matrix methods, graphical and numerical techniques, and applications of differential equations. Prerequisite: MTH-22102. (Math Credit)

MUSIC (MUS)

MUS 10100 Music History & Appreciation (F) 3 (3-0)

This course is a guide to listening, with emphasis on understanding and experiencing the fundamentals of music to increase the enjoyment and knowledge of music and to cultivate the art of intelligent and perceptive listening. Prerequisite or corequisite: ENG-10303. (Humanities Credit)

MUS 10400 Piano I (W) 3 (1.5-1.5)

This course is designed for group instruction on electronic piano. It will develop proficiency in piano playing in students who have had no experience at the keyboard. Other musical experience such as MUS-10100 is helpful but not essential. (Humanities Credit)

MUS 10802 Contemp Acoustic Guitar Styles I (F) 2 (1-1)

This class will teach beginners in an ensemble setting the basics of guitar styles used by today's musicians. Students will learn strumming and picking techniques along with simple major, minor and 7th chords that will allow them to accompany themselves and/or others. (Humanities Credit)

MUS 10901 Contemp Acoustic Guitar Styles II (F) 2 (1-1)

This class is a continuation of MUS-10802 and will teach more advanced chords, strumming and picking techniques, along with more complex chord progressions. Both rhythm and lead techniques are taught in an ensemble setting. Prerequisite: MUS-10802 or permission of instructor. (Humanities Credit)

MUS 11500 Beginning Voice (F) 3 (3-0)

This course provides classroom instruction in singing and vocal technique, including posture breathing, tone, song preparation, and performance. Some individual instruction, choral training, and general musicianship are also provided. The course is required of all students seeking a concentration in acting. (Humanities Credit)

MUS 12300 Jazz History & Appreciation (W) 3

This course is an in-depth study of America's only original art form through a historical and social perspective beginning with Blues and including Dixieland, swing, BeBop, and modern jazz. (Humanities credit)

MUS 27503 DS-Intermediate Voice (F) 3 (3-0)

This course is a continuation of MUS-11500. It provides classroom instruction in singing and vocal technique, including articulation, resonance, vocal health, vocal problem-solving, and performance. Some individual instruction, choral training, and general musicianship are also provided. Prerequisite: MUS-11500 or permission of instructor. (Humanities Credit)

NURSING (NUR)

NUR 10300 Nursing Essentials (V) 2 (2-0)

A course designed to facilitate student success and progression in the nursing program and prepare Level I Nursing students for success in the pharmacology course. Prerequisite: admission into the Level I nursing program.

NUR 10502 Foundations of Nursing (V) 3 (3-0)

This is the basic course in the nursing curriculum, which provides the foundation upon which other courses will build and expand. It is designed to introduce the beginning nursing student to the philosophy and objectives of practical nursing. Content includes the scientific principles and skills concerned with basic nursing practice, with emphasis on areas of nursing skills in respect to safety, comfort, coping, and adaptation. The student is introduced to the nursing process, basic communication skills, general assessment, death and dying, and spiritual and transcultural issues. Prerequisite: admission into the nursing program.

NUR 10700 Mental Health Concepts (V) 1 (1-0)

This course is designed to assist the student nurse to develop knowledge and skills in providing basic psychiatric nursing care. The student will achieve psychosocial adaptation competencies in assisting the client with an acute or chronic mental illness, substance abuse issue, or crisis/violence need. Students will apply scientific process to problem solve client's needs. Prerequisite: admission into the nursing program.

NUR 10803 Nursing Practice Lab (V) 3 (0-4)

This course consists of guided learning lab practice. The focus is acquisition of basic nursing skills. Prerequisite: admission into the nursing program.

NUR 10804 Nursing Clinical I (V) 2 (0-6)

This course consists of guided learning clinical experience in selected health care facilities/settings. Emphasis is placed on the principles and activities concerned with basic nursing techniques that are common to the client within the health care facility. Prerequisite: admission into the nursing program.

NUR 10900 Pharmacology I (V) 2 (2-0)

A course designed to introduce the nurse to advanced concepts of drug therapy, principles and methods of drug administration and related nursing activities and responsibilities. The course is based on the pharmaco/physiological concept. Continual association to clinical experience and physiology principles serve as the foundation of the course. Prerequisite: Admission into the Nursing program. Corerequisite or Prerequisite: NUR10300 Nursing Essentials.

NUR 12304 Nursing Clinical II (V) 5 (0-15)

This is a clinical course designed to introduce the student to basic concepts of using the nursing process to deliver care to adults with well-defined nursing diagnoses. Safe administration of medications will be integrated. Medical, surgical, and physiology principles serve as the foundation for the course. Application will occur in selected acute care and community sites. Prerequisite: admission into the nursing program.

NUR 12503 Adult Medical-Surgical Nursing (V) 4 (4-0)

This course introduces students to concepts focusing on how the adult responds to alterations in health. Emphasis is placed on using the nursing process as the student explores disease entities and the physiological responses of the body to these problems. This course presumes a basic understanding of normal anatomy and physiology, nutrition, and nursing foundations. Prerequisite: admission into the nursing program.

NUR 12800 Maternal-Child Nursing Care (V) 2 (2-0)

This course is designed to introduce the student to the concepts of obstetrical/pediatric nursing care. The course will include the health concerns confronting the following populations: women, pregnant client, the infant, child, and adolescent and their families, caretakers, and the community. The course presumes a basic understanding of normal anatomy and physiology. Basic concepts and principles of growth and development from conception through infancy, childhood and adolescence will be integrated throughout. Nutritional needs of these client groups and variations of diet therapy will be included. Prerequisite: admission into the nursing program. Corequisite: NUR-12304.

- NUR 13302 Current Issues in Nursing (V) 1 (1-0)**
 This is a course designed to emphasize the responsibilities and concerns associated with a graduate practical nurse. The course will focus on employment opportunities, continuing education, professional issues, and role. Prerequisite: admission into the nursing program.
- NUR 13402 Nursing Clinical III (V) 2 (0-6)**
 This course consists of guided learning clinical experience in selected health care facilities. Continued emphasis is placed on meeting the biopsychosocial developmental needs of the client. Role transition to graduate status is fostered. Prerequisite: admission into the nursing program.
- NUR 20900 Pharmacology II (V) 2 (2-0)**
 A course designed to introduce the nurse to advanced concepts of drug therapy, principles and methods of drug administration and related nursing activities and responsibilities. The course is based on the pharmaco/physiological concept. Continual association to clinical experience and physiology cellular principles will be emphasized through the course. This course is designed to continue the concepts of Pharmacology I. Prerequisite: Pharmacology I.
- NUR 21400 Nursing Pharmacology (V) 2 (2-0)**
 This course is designed to introduce the nurse to advanced concepts of drug therapy, principles and methods of drug administration, and related nursing activities and responsibilities. The course is based on the pharmaco/physiological concept. Continual association to clinical experience and physiology cellular principles will be emphasized throughout the course. Prerequisite: admission into the Level II nursing program, or permission of department.
- NUR 22001 Nursing Assessment (V) 3 (3-0)**
 This course is designed to explore the nursing process in depth as a foundation for professional nursing practice. Methods for eliciting a sound health history and techniques for physical assessment will be introduced as a means of providing essential information for care planning. This course is designed to build on previous knowledge of the body's anatomy and physiology. Prerequisite: admission into the Level II nursing program, or permission of department.
- NUR 22201 Critical Thinking in Adult Care (V) 5 (5-0)**
 This is a critical thinking course designed to aid the students in the use of the nursing process as it relates to adult clients with acute, chronic, and multiple health care problems. Emphasis is on a holistic approach that focuses on the adaptation of clients and significant others to alterations in the wellness-illness continuum and nursing's role in this process. Prerequisite: admission into the Level II nursing program, or permission of department.
- NUR 22300 Adult Nursing Clinical (V) 5 (0-15)**
 This course provides the student with clinical experiences that emphasize care for adult clients with acute and chronic health care problems. Nursing interventions focus on meeting the needs of clients with multiple health problems from a holistic perspective-wellness to illness. Application of theory to practice is critical to the learning process of students in this course. Prerequisite: admission into the Level II nursing program, or permission of department.
- NUR 23200 Family Centered Pediatrics (V) 2 (2-0)**
 This is a lecture course regarding applying the nursing process to pediatric clients and their families. The student will learn to facilitate the child and family in building, mobilizing, and using their resources in health promotion and maintenance, and managing illness. Prerequisite: admission into the Level II nursing program, or permission of department.
- NUR 24201 Community Mental Health Nursing (V) 2 (2-0)**
 This is a course designed to develop knowledge to provide psychiatric nursing care to select clients in the hospital or community who demonstrate patterns of maladaptive behavior. The student will explore methods of prevention, maintenance, and treatment of individuals with a mental illness. Prerequisite: admission into the Level II nursing program, or permission of department.
- NUR 24302 Community Mental Health Clinical (V) 1.5 (0-4.5)**
 Hospital and community clinical experiences are utilized to provide students opportunities to apply the nursing process to clients with maladaptive behavior. The focus is on one-to-one interpersonal relationships through which the nursing process is applied and analyzed. Prerequisite: admission into the Level II nursing program, or permission of department.

- NUR 24600 Nursing Care of Women & Families (V) 2 (2-0)**
 This course is designed to assist the student in applying the nursing process in giving care to women, newborns, and their families, primarily during the period of childbearing. This course focuses on home care, complications of childbearing, and reproductive health. Emphasis is placed on the nurse's role in disease prevention, health promotion and maintenance, and teaching. Prerequisite: admission into the Level II nursing program, or permission of department.
- NUR 24900 Pediatric/Women's Health Clinical (V) 1.5 (0-4.5)**
 The focus of this clinical course is to aid the student in applying the nursing process to the needs of obstetrical, female, newborn, and pediatric families. Nursing intervention in assisting the client and family to promote maximum holistic health through continuous adaptation, growth, and development in their responses to illness and stress is demonstrated. Emphasis is placed on the nurse's role of nurturing and facilitating the obstetrical, female, newborn, child, and families in building, mobilizing and using their resources in health promotion, health maintenance and managing illness. This course presumes the student has previously attained a basic level of clinical experience in obstetrical, female, newborn, and pediatric nursing and is designed to build upon that experience base. Application of obstetrical, female, newborn and family-centered pediatrics nursing care will occur in selected hospital or community based settings. Prerequisite: admission into the Level II nursing program. Corequisite: NUR23200 and NUR24600.
- NUR 25201 Professional Practice (V) 2 (2-0)**
 This course is designed to assist the transition of the student nurse to graduate nurse. Professional nursing behaviors and attitudes are explored. Health care systems, nursing personnel and roles, staffing, and other professional issues are examined and evaluated. Prerequisite: admission into the Level II nursing program, or permission of department.
- NUR 26001 Nursing Care of Adults (V) 8 (8-0)**
 This course is designed to facilitate the student in using the nursing process to give care to adults who are acutely or chronically ill or who have multiple health problems. Nursing interventions to assist the client and family in their holistic adaptive responses to illness and stress are discussed. Emphasis is placed on the nurse's role in health care management (disease prevention, health promotion and maintenance, and teaching). Information is designed to build upon the theory learned in all completed coursework and will enable the student to apply previously learned knowledge and skills. Prerequisite: admission into program.
- NUR 27200 Nursing Care of Special Pops - OB (V) 2 (2-0)**
 This is a course designed to facilitate the student in using the nursing process to give care to special populations (mental illness, childbearing family, and childrearing family). Nursing interventions to assist the client and family in their holistic adaptive responses to growth and development, illness, and stress are discussed. Emphasis is placed on the nurse's role in health care management (disease prevention, health promotion and maintenance, and teaching). Knowledge is demonstrated by the safe and effective clinical care to clients in various settings. Prerequisite: admission into program and PSY-10100.
- NUR 27400 Nursing Care of Special Pops - Peds (V) 2**
 This is a course designed to facilitate the student in using the nursing process to give care to special populations (mental illness, childbearing family, and childrearing family). Nursing interventions to assist the client and family in their holistic adaptive responses to growth and development, illness, and stress are discussed. Emphasis is placed on the nurse's role in health care management (disease prevention, health promotion and maintenance, and teaching). Knowledge is demonstrated by the safe and effective clinical care to clients in various settings. Prerequisite: admission into program and PSY-10100.
- NUR 27600 Nursing - Special Pops/Mental Hlth (V) 4**
 This is a course designed to facilitate the student in using the nursing process to give care to special populations (mental illness, childbearing family, and childrearing family). Nursing interventions to assist the client and family in their holistic adaptive responses to growth and development, illness, and stress are discussed. Emphasis is placed on the nurse's role in health care management (disease prevention, health promotion and maintenance, and teaching). Knowledge is demonstrated by the safe and effective clinical care to clients in various settings. Prerequisite: admission into program and PSY-10100.

NUR 28000 Clinical Application / Nursing Care

(V)

8 (8-0)

This is a clinical course that focuses on the practice of nursing in selected settings (in-patient, out-patient, and community settings) and with varying client populations. Students apply nursing process to assist clients and families to achieve maximum holistic health through continuous adaptation and growth and development. Students will manage care for increasing numbers of clients within selected settings. Communication skills with clients, peers, and the health care team are emphasized, as are professional nursing behaviors. Knowledge is demonstrated by the safe and effective clinical care to clients in the mental health, childbearing, childrearing, and medical-surgical settings over 15 weeks of clinical experience. Prerequisites: NUR-22001, NUR-26001, NUR-27000, and Nursing Leadership (NURS 290.L1)

NUR 29000 Nursing Leadership

(W)

3 (3-0)

This course explores the professional nurse's role in management including priority setting, delegation, supervision, and resource management in the health care setting. Content includes leadership issues, career development, and current health care trends. Prerequisites: NUR26001 & NUR22001. Corequisites: NUR27200, NUR27400, and NUR27600.

OFFICE INFORMATION SYSTEMS (OIS)

OIS 10100	Basic Keyboarding	(F,W,S)	1
This course is for those who have not had any previous keyboarding instruction.			
OIS 10401	Keyboarding I-A	(F,W,S)	1
Students will be using a microcomputer and appropriate software to develop touch-type operation of the keyboard and drill work to develop their keyboarding skills.			
OIS 10402	Keyboarding I-B	(F,W,S)	1
Students will be using a microcomputer and appropriate software to develop touch-type operation and basic skills in keyboarding, including the numeric keypad and the ability to prepare memorandums and business letters. Review and drill work are also incorporated into the course.			
OIS 10403	Keyboarding I-C	(F,W,S)	1
Students will be using a microcomputer and appropriate software to develop basic skills in keyboarding, including touch-type operation of the keyboard, and the ability to prepare simple business letters, reports, manuscripts, and outlines. Review and drill work are available for those students who have previously developed some keyboarding skill.			
OIS 10500	Business Correspondence	(F,W,S)	3
Detailed examination of methods of communication in business. Instruction and practice in writing and constructing rough drafts, finished letters and forms used in business. Includes grammatical and mechanical foundation for preparing business correspondence with emphasis on successful human relations. Employability skill, including letters of appreciation, application forms, and interview techniques are presented. The course also includes a documented research paper. Prerequisite: ENG-10303.			
OIS 10600	Intro to Health Information Systems	(F,W,S)	3
This course is designed to introduce the student to health information systems from a broad view of the health care industry to the basic elements of health information technology, through the physician's office, acute care setting, and other health care environments. A complete integration of computer-based terminology and concepts will be addressed as it relates to health information technology. The course includes the practical application of various health information functions.			
OIS 10701	Medical Office Transcription-A	(F,W,S)	1
This introductory course is designed to expose the student to the beginning stages of medical transcription. The student will learn the different tools of transcription, how to operate the different types of dictation and transcription equipment, how to use the reference materials in terms of punctuation and transcribing numbers. Basic transcription will be introduced. Corequisites: ALH-10101; OIS-11401 or OIS-18201 or equivalent; or permission of advisor.			
OIS 10702	Medical Office Transcription-B	(F,W,S)	1
This course is designed to expose the student to formatting transcription letters and to developing proofreading skills. Guidelines will be introduced for style, grammar, and specific medical transcription mechanics such as editing, spelling, and formatting of medical reports. Intermediate transcription skills will be developed upon completion of this course. Prerequisites: OIS-10701.			
OIS 10703	Medical Office Transcription-C	(F,W,S)	1
This course exposes the student to identifying the various mechanical formats used to prepare the diverse medical reports used in transcribing. Upon completion of this course, the student will be typing reports, memos, minutes, and agendas. Advanced transcription skills will be developed upon completion of this course. Prerequisites: OIS-10702 or equivalent.			
OIS 10800	Medical Transcription I	(F,W,S)	3
Transcription of authentic physician-dictated reports organized by body systems or medical specialties. Emphasis on development of accuracy, speed, and medical knowledge for transcription of letters, chart notes, history and physical examination reports, consultations, emergency room reports, operative reports, discharge summaries, laboratory reports, diagnostic studies, radiology and pathology reports. Using reference materials and other resources efficiently. Editing and proofreading techniques. Grammar and punctuation review. Prerequisites: ENG-10303, and OIS-10703 or equivalent.			

OIS 11201	Business Calculations	(F,W,S)	3
The student will learn how to add, subtract, multiply, and divide to complete various business application problems using an electronic calculator and the microcomputer ten-key pad.			
OIS 11300	Medical Coding I	(F,W)	3
This course includes the study and practical application of coding medical diagnoses and procedures from medical record documentation using CPT-4 coding systems. The student will review medical records to identify the key components of documentation that are used in the coding and documentation process. Prerequisite: ALH-10101.			
OIS 11401	Keyboarding II-A	(F,W,S)	1
This course is designed to increase speed and accuracy in the preparation of keyed projects. The student will be introduced to memorandums and e-mail, personal and business letters, and tables. Prerequisite: OIS-10403 or equivalent, or permission of advisor.			
OIS 11402	Keyboarding II-B	(F,W,S)	1
This course is designed to increase speed and accuracy in the preparation of business reports and letters. The student will be introduced to various letter styles, forms, manuscripts, and tabulation problems. Prerequisite: OIS-11401 or equivalent.			
OIS 11403	Keyboarding II-C	(F,W,S)	1
This course is designed to increase speed and accuracy in the preparation of business reports and letters. The student will be introduced to various letter styles, forms, manuscripts, and tabulation problems. Prerequisite: OIS-11402 or equivalent.			
OIS 11500	Medical Billing & Coding	(F,W)	3
This course provides students with the knowledge and skills necessary to perform the duties of an Insurance Billing Specialist. This includes reviewing and completing health insurance forms properly and accurately abstracting with the appropriate diagnoses and procedure codes. Students will prepare and organize patient charts, bills, ledgers, and encounter forms. Prerequisite: ALH-10101 or permission of advisor.			
OIS 17000	Legal Terminology & Transcription	(F,W)	3
This course is designed to give the student a background in basic legal terminology including spelling, pronunciation, and meaning. The student will develop transcription skills by transcribing from taped dictation documents dealing with the courts, legal systems, and litigation procedures. Prerequisites: ENG-10303 and OIS-10403. Corequisites: OIS11401 or higher.			
OIS 18201	Word Processing I-Word-A	(F,W,S)	1
This course is designed to provide students with a knowledge of word processing concepts, equipment, and the ability to perform word processing operations using a word processing system. The student will perform basic word processing functions including inputting, formatting, editing, and printing.			
OIS 18202	Word Processing I-Word-B	(F,W,S)	1
This course is designed to provide students with a knowledge of word processing concepts, equipment, and the ability to perform word processing operations using a word processing system. The student will perform basic word processing functions including inputting, formatting, editing, saving, retrieving, creating, printing, maintaining files, using writing tools, using tabs, and manipulating text. Prerequisite: OIS-18201.			
OIS 18203	Word Processing I-Word-C	(F,W,S)	1
This course is designed to provide students with a knowledge of word processing concepts, equipment, and the ability to perform word processing operations using a word processing system. The student will perform basic word processing functions including inputting, formatting, editing, printing, maintaining files, using writing tools, using tabs, and manipulating text. Prerequisite: OIS-18202.			
OIS 19001	Machine Transcription-A	(F,W,S)	1
This is an introductory course, which teaches the basic skills needed to operate a transcribing machine. Emphasis is placed on listening skills, proofreading, and applying the principles of correct grammar to the transcription of letters and memorandums. Prerequisites: ENG-10303; OIS-11401 or OIS-18201 or equivalent. Corequisites: OIS11401 or OIS18201.			

OIS 19002	Machine Transcription-B	(F,W,S)	1
This intermediate course introduces dictation of documents requiring document-formatting decisions. Emphasis continues to be placed on listening skills, use of proper punctuation, and accurate proofreading techniques. Prerequisites: OIS-19001 or equivalent.			
OIS 19003	Machine Transcription-C	(F,W,S)	1
This course requires the student to apply the basic skills acquired in OIS-19001 and OIS-19002 to dictation of increasing difficulty. Grammar, spelling, formatting, and editing decisions will be more challenging. Prerequisites: OIS-19002 or equivalent.			
OIS 20501	Records Management-A	(F,W,S)	1
This course is an introduction to the basic principles, procedures, and methods of records storage, control, retrieval, and management. Practical applications of manual filing are utilized to assist students in mastering the rules and principles of alphabetic filing.			
OIS 20502	Records Management-B	(F,W,S)	1
This course expands on the introductory course by reviewing the basics of alphabetic filing through additional practical applications. Emphasis is placed on procedures for efficient records retention, retrieval, and transfer procedures. Prerequisite: OIS-20501.			
OIS 20503	Records Management-C	(F,W,S)	1
This course provides the student with advanced training in records management, which includes principles and practical applications of subject, numeric, and geographic filing. For enhancement of records management techniques, an interview with a records manager in an off-campus business will be conducted by the student. Prerequisite: OIS-20502.			
OIS 20600	Medical Transcription II	(F,W,S)	3
This course will expand the transcription skills of the student by the use of dictation in the specialty areas of medicine and will include dictation by heavily accented English-speaking people. The students will further develop their skill in efficient usage of reference materials.			
OIS 20700	Medical Transcription III	(F,W,S)	3
This machine transcription course will required the student to develop an employable production speed while transcribing a variety of medical documents dealing with the specialty areas of medicine and advanced terminology. Dictation by persons with foreign accents will be incorporated into this class.			
OIS 21000	Office Procedures	(F,W,S)	3
This course provides the application and combination of previously learned skills. It introduces the application of standard office procedures and practices. Emphasis is on the production of quality materials suitable for actual use, with further emphasis on the development of acceptable personal attitudes and personality. The course also includes a review of employability skills. Prerequisites: ENG-10303; and OIS-11403 and OIS-18203 and OIS-19003, or equivalent.			
OIS 21100	Medical Office Procedures	(F,W,S)	3
This course is a concentrated application of various tasks that a medical clerk/secretary performs, including administrative responsibilities, preparing and organizing patient charts, medical ethics and law, Internet projects, telephone procedures, appointments, and records management. The use of the computer is emphasized in each of these applications. Prerequisites: ALH-10101 and ENG-10303; or equivalent.			
OIS 21300	Medical Coding II	(F,W,S)	3
This course includes the advanced study and practical application of coding medical diagnoses and procedures from medical record documentation using ICD-9-CM and CPT-4. The student will achieve a thorough understanding of the impact of coding on all aspects of the reimbursement process. Prerequisite: OIS-11300.			
OIS 21400	Keyboarding III	(F,W,S)	3
This course provides application and study in the preparation of common and specialized letters, business forms, legal papers, and correct office methods and procedures. Also, typing of specialized forms in accounting, government, and professional and technical fields is taught. Prerequisite: OIS-11403 and OIS-18203, or equivalent.			

OIS 21500	Desktop Publishing for the Office	(F,W,S)	3
This is a course designed to study the technology of desktop publishing. A word processing program will be used to create documents such as reports, brochures, advertisements, newsletters, flyers, and correspondence. Advanced features will also be taught; therefore, the student will acquire a skill that is valuable in both small and large offices. Prerequisites: CIS-10500 and OIS-22200 or equivalent; or permission of advisor. Corequisites: OIS11403.			
OIS 22100	Office Pharmacology	(W)	2
This course is designed for the medical secretary or transcriptionist and will focus on drugs prescribed and/or dispensed in the office setting, patient instructions, reporting reactions, and storage. Emphasis will be placed on correct spelling and transcription of prescribed medications. Prerequisites: ALH-10101, BIO-10701, and BIO-10702, or permission of advisor. Prerequisite or corequisite: ALH-11201.			
OIS 22200	Word Processing II-Word	(F,W,S)	3
This course is designed to provide advanced applications of the word processing system and program used in OIS-18203. The student will demonstrate proficiency in advanced word processing applications including power typing, creation of documents, and enhancement to promote efficiency. Prerequisite: OIS-18203.			
OIS 22500	Legal Office Procedures	(F,W)	3
This course is designed to provide students with fundamental concepts of American jurisprudence, and practical application of tasks that will be required in a legal office setting. Prerequisites: BUS-10100, BUS-21500, and OIS-17000 with a grade of "C" or better. Corequisites: OIS11403.			
OIS 24101	Internship-Administrative Asst	(F,W,S)	3
The externship consists of 128 hours of directed office work experience consisting of supervised secretarial duties in a suitable office facility either on or off campus. Prerequisites: completion of all courses required for program, a GPA of 2.0 or better, and permission of advisor.			
OIS 24102	Internship-Legal Secretary	(F,W,S)	3
The externship consists of 128 hours of directed office work experience consisting of supervised legal secretarial duties in a suitable legal office. Prerequisites: completion of all courses required for program, a GPA of 2.0 or better, and permission of advisor.			
OIS 24103	Internship-Medical Secretary	(F,W,S)	3
The externship consists of 128 hours of directed office work experience consisting of supervised medical secretarial duties in a suitable medical facility. Prerequisites: completion of all courses required for program, a GPA of 2.0 or better, and permission of advisor.			
OIS 24106	Internship-Medical Transcription	(F,W,S)	4
This externship consists of coordinated, directed, on-site training under the supervision of a qualified medical record administrator in an office specializing in medical transcription. The externship will involve 144 hours of work experience transcribing the basic four reports (history and physical, consultation, operative report, and discharge summary), as well as other specialty area transcription. A transcription project will be developed along with a transcription procedures manual. Prerequisites: completion of all courses required for program, a GPA of 2.0 or better, and permission of advisor.			
OIS 24107	Internship-Adv Word Processing Spec	(F,W,S)	3
The externship consists of 128 hours of directed office work experience consisting of supervised advanced word processing duties in a suitable facility. Prerequisite: completion of all courses required for program, a GPA of 2.0 or better, and permission of advisor.			
OIS 24108	Internship-Medical Clerk	(F,W,S)	3
The externship consists of 128 hours of directed office work experience consisting of supervised medical office assistant duties in a suitable medical facility. Prerequisite: completion of all courses required for program, a GPA of 2.0 or better, and permission of advisor.			
OIS 24109	Internship-Medical Billing/Coding	(F,W,S)	4
The externship consists of 144 hours of directed office work experience consisting of supervised billing and coding duties in a suitable medical facility. Prerequisite: completion of all courses required for program, a GPA of 2.0 or better, and permission of advisor.			

OUTDOOR POWER ENGINES (OPE)

OPE 10001	Two & Four Cycle Engines Level 1	(F,W)	3 (1-3)
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Students will be able to identify basic engine parts as single components or as assemblies. Students also will explain the overall function of the engine including components, function, identification, and purpose. The class also includes hand tool identification, measurement tools functions, and minor removal and installation of certain components on the engine.

OPE 11032	Two & Four Cycle Engines Level 2	(F,W)	3 (1-3)
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Students will be able to identify basic engine problems, diagnose or troubleshoot and correct or repair. Students will also perform preventative maintenance measured on engines and tune-up engines, gearboxes, and transaxles before failure occurs in these components. Prerequisite: OPE-10001.

OPE 14000	Small Engine Electricity	(F,W,S)	3 (2-2)
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This electrical course is designed to teach students basic electrical theory, fundamentals of batteries, electrical components, wiring systems, and the use of electrical test equipment. Prerequisites: DEV06300 or attainment of level 4 score on the Work Keys math assessment test.

OPE 20100	Outdoor Power Engines Capstone	(F,W,S)	3 (1-3)
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This is a project based course that applies both the theory and practical hands-on content that was covered in the two previous courses (OPE Level 1 and Level 2). The students will apply those skills learned in the previous two classes, while they troubleshoot and service equipment. Students will repair a multitude of minor issues that could include mechanical, electrical, or fuel-related problems, either internal or exterior to the engine or equipment it is mounted to. Prerequisite: OPE10001 & OPE11032.

OPE 20310	Power Sports Equipment	(F)	3 (4-0)
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Students who take this course will diagnose and troubleshoot the complex systems that exist in motorcycles, all-terrain vehicles and/or snowmobiles. These systems include, but are not limited to, electronic ignition systems, power drive systems, fuel-injection systems, braking systems, emission control systems, cruise control systems, suspension systems, and conventional design features (frame structures). Prerequisites: OPE10001 & OPE11032.

OPE 20510	Watercraft I	(W)	3 (2-2)
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Students who take this course will learn to diagnose and troubleshoot the complex systems that exist in outboard engines. This class is designed to help the student maintain, repair and diagnose running problems with the outboard engine. Personal watercraft (jet skis, etc.) will also be discussed and covered to a certain degree, as equipment becomes available. Prerequisites: OPE10001 & OPE11302.

PHILOSOPHY (PHL)

PHL 20100 Intro to Philosophy

(F)

3 (3-0)

An introduction to not only the study of philosophy, but also its active and systematic practice. While the course explores such topics as the origin and development of philosophy, the ideas of major philosophers, and significant philosophical issues and problems, students are encouraged, above all, to practice the methods of philosophy as a life skill. Prerequisite or corequisite: ENG-10303 or permission of instructor. (Humanities Credit)

PHL 21000 Intro to Ethics-Hist/Appl Approach

(W)

3 (3-0)

An introduction to the study of moral philosophy. Through reading, writing, and discussion, students will explore moral values and the major ethical theories, practice effective moral reasoning, and apply ethical thinking to issues and problems in various fields and their own lives. Prerequisite or corequisite: ENG-10303 or permission of instructor. (Humanities Credit)

PHYSICS (PHY)

3 (3-0)

1 (0-2)

4 (4-0)

1 (0-3)

4 (4-0)

1 (0-3)

4 (4-0)

1 (0-3)

4 (4-0)

1 (0-3)

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POLITICAL SCIENCE (POL)

POL 10100	Intro to American Government	(F,W,S)	3 (3-0)
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3 (3-0)

A study of the processes and functions of national government, this course includes a study of federalism, political parties, constitutional principles, and the role of the citizen. Prerequisite or corequisite: ENG-10303.

POL 20000	International Relations	(F)	3 (3-0)
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3 (3-0)

This is a study of the nature of relations among nations with particular reference to the basic principles of international politics, including foreign policy, cooperation, conflict, and the role of international organizations. Special focus will be on global issues such as political and economic development, human rights, population growth, food and energy policies, and conservation. Prerequisite: POL-10100. (Social Science Credit)

POL 20100	Comparative Government	(F)	3 (3-0)
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3 (3-0)

This course surveys the government and political institutions in selected Western European democracies, communist systems, and third world countries, emphasizing political socialization, participation, political parties, interest groups, policy making, and governmental structures. The student will come to understand the differences between the American political system and other democratic and non-democratic systems. In addition, the course considers cultural, economic, and social differences. Prerequisite: POL-10100. (Social Science Credit)

PSYCHOLOGY (PSY)

3 (3-0)

This course is a study of human and animal behavior with reference to perception, learning memory, thinking, emotions, intelligence, aptitude, and personality. The need for scientific investigation of behavior is stressed throughout the course. In addition, the behavioral neuroscience, psychodynamic, social/behavioral, cognitive, and humanistic viewpoints are considered for analysis of psychological phenomena. Prerequisite or corequisite: ENG-10303. (Social Science Credit)

3 (3-0)

Abnormal psychology provides examination of the main psychological disorders manifested by individuals across the life span. This includes a descriptive and theoretical survey of the major forms of psychopathology in children, adolescents, and adults, and will also explore current trends and research in the fields of mental health and psychopathology. The course will provide an historical overview of mental illness followed by exploration into the eating disorders, schizophrenia, mood disorders, suicide, anxiety disorders, dissociative disorders, sexual and gender identity disorders and the insanity defense. Prerequisite: PSY-10100. (Social Science Credit)

3 (3-0)

This is a course designed to introduce the basic principles of developmental psychology from conception to death (life-span). The course, while pursuing a chronological approach (life-stages) and examining basic developmental tasks appropriate to each stage, will explore the factors that influence growth and development. Prerequisite: PSY-10100 or permission of instructor. (Social Science Credit)

3 (3-0)

This course will examine the effect of human sexuality and sex roles upon human behavior. Additionally, findings in contemporary sexual research and therapy will be emphasized. Prerequisite: PSY-10100 or SOC-10100. (Social Science Credit)

SOCIOLOGY (SOC)

3 (3-0)

3 (3-0)

3 (3-0)

3 (3-0)

SONOGRAPHY (SON)

SON 10000	Intro to Sonography Patient Care	(F,W,S)	3 (2-2)
This course consists of theory and guided learning lab practice. Focus is acquisition of basic skills and an understanding of cardiac medical terminology, pharmacology, and monitoring along with the basics of IV therapy, vital signs, patient transfer, O2 maintenance and medical ethics (including HIPPA).			
SON 10500	Cardiac Anatomy & Physiology	(F, W)	3 (3-0)
A complete study and explanation of the heart and its associated structures. This class is vital to an understanding of the anatomy and fuction of the heart, as well as the basic cardiac physiology as it relates to cardiac anatomy and function.			
SON 11000	Ultrasound Physics	(F,W)	3 (3-0)
This course is designed to teach the fundamentals of Ultrasound Physics and instrumentation. This includes review of different transducer models, the propagation of sound waves, and the Ultrasound's effect on the body.			
SON 11500	Cardiac Principles and Lab I	(F,W)	4 (1-6)
This course applies knowledge of cardiovascular anatomy and physiology to the fundamentals of ultrasound imaging and assists the student to acquire the knowledge, skills, and attitude necessary to obtain the standard basic views required for an Echocardiographic examination.			
SON 12500	Echo I	(W,S)	4 (4-0)
This course presents cardiovascular related conditions and diseases. Their etiology and symptoms are discussed and correlated to cardiovascular imaging and techniques required to assist the physician in diagnosis of these conditions. Prerequisite: program progression.			
SON 13000	Cardiac Principles & Lab II	(W)	4 (1-6)
This course furthers the knowledge of cardiac anatomy and physiology to the principles of cardiac imaging techniques and procedures, and integrates knowledge of cardiac anatomy and hemodynamics into the clinical setting as students demonstrate an increasing degree of skill in the performance of cardiac procedures. Prerequisite: program progression.			
SON 13500	Clinical Practice I	(W,S)	2 (0-6)
This course is an arranged off campus clinical experience at a variety of facilities. Prerequisite: program progression.			
SON 15000	Echo II	(F,S)	4 (4-0)
This course relates further knowledge of cardiac anatomy and physiology and cardiac pathology and abnormalities that may be encountered in a clinical setting.			
SON 15500	Cardiac Principles and Lab III	(F,W)	4 (1-6)
This course focuses on the skills necessary to perform complete cardiac exams and correlate cardiac disease processes and pathology that may be present in order to aid the physician in the appropriate disease diagnosis. Students increase in knowledge and skills as this course integrates advanced cardiovascular imaging techniques to investigate various cardiac disease states.			
SON 16000	Clinical Practice II	(F,W)	2 (0-6)
This course is an arranged off-campus clinical experience at a variety of facilities. Prerequisite: program progression.			
SON 22000	Externship	(W)	15.5 (0-15.5)
Students will be assigned to an off campus, remote site in order to complete 697.5 clock hours of practice with a preceptor. Prerequisite: program progression.			

SPEECH (SPE)

SPE 10500 Fund of Speech (F,W) 3 (3-0)

Fundamentals of Speech addresses the basic principles of speech construction and delivery. During the course, the student will give various kinds of speeches, including impromptu and extemporaneous. (Communication)

SPE 11400 Intro to Interpersonal/Public Comm (F,W,S) 3 (3-0)

Introduction to Interpersonal and Public Communication is a course aimed at understanding and applying communication theory. Communication skills will be developed through small group activities, public speaking, and personal assessment assignments. (Communication)

THEATRE (THE)

- THE 12000 Intro to Theatre (F) 3 (3-0)**
This course is a survey of the evolution of world theatre forms, from the cave drawings of prehistoric man to the most recent shows on the Broadway stage. Classroom discussions will cover the major producers, playwrights, performers, directors, and designers of each era covered, as well as the body of literature that has come to represent that era. Classroom sessions will be augmented by readings from these periods. (Humanities Credit)
- THE 121-- Theatre Workshop I (F,W) 1-3**
The workshop provides practical experience in mounting a theatrical production. The student will gain familiarity with one or more of the following areas: acting, directing, costuming, scenery construction, properties, lighting and sound, and stage management. A weekly time commitment will be a requirement during the semester. The student will be required to work 30 hours or more for one credit hour, 60 hours or more for two credit hours, and 90 hours or more for three credit hours. (Humanities Credit)
- THE 12200 Stagecraft I (W) 3 (3-0)**
This course studies and applies the basic techniques of set construction, theatrical lighting, sound technology, stage rigging, and backstage organization. This "basics" course will introduce the student to the various technical elements that make a theatre run. The class will cover various theatre disciplines outlined above and provide actual hands-on experience with theatre lighting and sound equipment, maneuvering theatre catwalks, and building basic theatrical scenery. This course is required for admission to upper-level design and technology courses. (Humanities Credit)
- THE 12300 Acting I (F) 3 (3-0)**
This class is an introduction to the art of acting. The student walks the path of the actor from developing an acting technique to the performance of short scenes. The actor learns to get beyond the limits of self and explore the freedom of creating a character. Along the way, time will be spent exploring the creative process and developing an ensemble approach to acting. Acting I can work in conjunction with the semester's theatrical production. (Humanities Credit)
- THE 21000 Theatre Makeup (W) 3 (3-0)**
The student will become familiar with the art and profession of stage makeup. This course will involve hands-on experience in the principles of the art and technique of designing and applying theatrical makeup. Makeup textbooks will be provided as reference material. The course will cover character analysis, facial anatomy, makeup supplies, and professional makeup application. (Humanities Credit)
- THE 221-- Theatre Workshop II (F,W) 1-3**
This course is a continuation of Theatre Workshop I. Students concentrate their efforts in different areas than they did in Workshop I. A weekly time commitment will be a requirement during the semester. The student will be required to work 45 hours or more for one credit hour, 90 hours or more for two credit hours, and 135 hours or more for three credit hours. Prerequisite: THE-12100 or permission of instructor. (Humanities Credit)
- THE 27000 Audition/Resume Workshop (W) 3 (3-0)**
This course prepares the student to audition and/or interview for professional employment in theatre or for admission into a B.F.A. training program. Students will develop theatrical résumés, portfolios, and/or audition books specific to the field they wish to pursue. Students will also learn how to modify and update their audition/interview materials as changes in their circumstances dictate. Prerequisites: sophomore status, successful completion of THE-12000 or permission of instructor. (Humanities Credit)

WELDING (WLD)

WLD 10120 Welding Safety	(F,W,S)	0.13 (0-3)
Safe working conditions and job performances happen as a result of knowledgeable workers with positive attitudes. A safe worker knows the safety regulations are important to his or her employment. He/she uses the safeguards, personal protection devices, and other equipment required for safe working conditions for all employees. Students will demonstrate and practice the safety guidelines of the welding lab.		
WLD 10121 AWS Joints/Positions/Welds/Symbols	(F,W,S)	0.13 (0-3)
In all welding processes there are several types of joints, welds and positions. Metal preparation varies as well as the technique of making a weld. The welder should know the differences and be able to identify these variables by using the American Welding Society numbering system. Given the necessary materials and equipment the student will demonstrate the ability to read and measure with basic types of rules.		
WLD 10122 OAW Terms & Equipment Setup	(F,W,S)	0.17 (0-4)
In this module the student will learn oxyacetylene welding, safety terms and definitions acceptable to American Welding Society standards and how to effectively set-up and shut-down an oxyacetylene welding station properly. In order to safely begin oxyacetylene welding, it is first necessary to know how to set the equipment up in a safe and proper manner. Setting up and shutting down of an oxyacetylene welding station improperly could cause serious damage or injury to yourself, the people working near you, and the equipment.		
WLD 10123 OAW Stringer Beads & Joints IG-IF	(F,W,S)	0.36 (0-9)
The welder does more work in the flat position than in any other position. Welding the various joints in the flat position is the basis for all other welding procedures. In this module, the student will demonstrate how to run stringer beads with and without a filler rod, in the flat position.		
WLD 10124 BW Stringer Beads & Joints	(F,W,S)	0.29 (0-7)
Brazing and braze welding are two non-fusion metal joining processes that require much less heat than any of the fusion welding processes. In brazing, you coat the surface of the base metal with a brazing alloy. This process is called adhesion. In this module, the student will demonstrate how to braze the basic joints in the flat position.		
WLD 10125 Cutting OA/Plasma Cutting/Carbn Arc	(F,W,S)	0.45 (0-11)
Cutting metal is a very common occurrence among welders. There are many ways to accomplish this. The oxyacetylene torch and plasma are two ways to do this. Plasma arc cutting can cut different metals, such as stainless, aluminum, and other hard to cut alloy steels. In this module, the student will demonstrate how to cut both ferrous and non-ferrous metals by manual and automatic means by using Plasma and Oxyacetylene. Air carbon arc cutting is a method of removing unsatisfactory welds in a short period of time. In this module the student will identify terms and definitions of the process, as well as utilize the process to remove an unacceptable weld from metal.		
WLD 10126 Identifying Good Welds per AWS	(F,W,S)	0.13 (0-3)
To produce good welds you must not only know how to manipulate the electrode, but you must know certain weld characteristics, types of electrode characteristics, and types of machines and their settings. Knowledge of what constitutes an acceptable weld and what constitutes an unacceptable weld is also important. In this module the student will explain the difference between good weld characteristics and bad.		
WLD 10127 SMAW Terms/Identify Electrodes	(F,W,S)	0.17 (0-4)
With any trade, there is a language which relates only to that trade and has special meaning for persons involved with that occupation. This module contains the most common terms important to arc welding. Also S.M.A.W. electrodes have a core of metal to supply filler metal to the weld. They also have a covering of flux that is burned to supply a gas shield around the arc and slag over the molten puddle. In this module the student will explain some of the American Welding Society (A.W.S.) terms and what the electrode numbering system means for identifying the different covered electrodes.		
WLD 10128 SMAW Set-up & Weld Stringer Beads	(F,W,S)	0.42 (0-10)
Learning to stick weld involves mastery of a specific series of operations. Skill in performing these operations requires a lot of practice. Once this skill has been acquired, the operations can be applied on any welding job. In this module, the student will demonstrate how to strike and maintain an arc to run stringer beads on a plate of metal.		

WLD 10129 SMAW Welding Joints/Flat Pos/1G-1F	(F,W,S)	0.33 (0-8)
In this module the student will demonstrate how to effectively weld joints in the flat position (1G & 1F) using the S.M.A.W. process on a base metal, according to American Welding Society Standards.		
WLD 10130 GMAW Set-up & Weld Stringer Beads	(F,W,S)	0.42 (0-10)
The gas metal arc welding process (abbreviated G.M.A.W.) uses a continuously fed wire for the electrode and filler metal. G.M.A.W. is a semiautomatic welding operation that is especially useful where making long, continuous welds and fast welding speeds are required. In this module the student will explain the general principles of G.M.A.W., some of the advantages and disadvantages of G.M.A.W., and how the wire electrode is applied or transferred to the parent metal being welded. Also in this module the student will demonstrate how to actually establish the arc and make weld beads using the G.M.A.W. equipment correctly.		
WLD 10131 GMAW Welding Joints/Flat Pos/1G-1F	(F,W,S)	0.29 (0-7)
In this module the student will demonstrate how to effectively weld joints in the flat position (1G & 1F) using the G.M.A.W. process on a base metal, according to American Welding Society Standards.		
WLD 10132 FCAW Set-up & Weld Stringer Beads	(F,W,S)	0.42 (0-10)
The flux cored arc welding process (abbreviated F.C.A.W.) uses a continuously fed wire for the electrode that has a flux coating and filler metal. F.C.A.W. is a semiautomatic welding operation that is especially useful where making long, continuous welds and fast welding speeds are required and where more weld strength and/or penetration is required. In this module the student will explain the general principles of F.C.A.W., some of the advantages and disadvantages of F.C.A.W., and how the wire electrode is applied or transferred to the parent metal being welded. Also in this module the student will demonstrate how to actually establish the arc and make weld beads using the F.C.A.W. equipment correctly.		
WLD 10133 FCAW Welding Joints/Flat Pos/1G-1F	(F,W,S)	0.29 (0-7)
In this module the student will demonstrate how to effectively weld joints in the flat position (1G & 1F) using the F.C.A.W. process on a base metal, according to American Welding Society Standards.		
WLD 10240 GMAW Welding Joints/Hor Pos/2G-2F	(F,W,S)	0.17 (0-4)
In this module the student will demonstrate how to effectively weld joints in the horizontal position (2G & 2F) using the G.M.A.W. process on a base metal, according to American Welding Society Standards.		
WLD 10241 FCAW Welding Joints/Hor Pos/2G-2F	(F,W,S)	0.17 (0-4)
In this module the student will demonstrate how to effectively weld joints in the horizontal position (2G & 2F) using the F.C.A.W. process on a base metal, according to American Welding Society Standards.		
WLD 10242 GMAW Welding Joints/Ver Pos/3G-3F	(F,W,S)	0.17 (0-4)
In this module the student will demonstrate how to effectively weld joints in the vertical position (3G & 3F) using the G.M.A.W. process on a base metal, according to American Welding Society Standards.		
WLD 10243 FCAW Welding Joints/Ver Pos/3G-3F	(F,W,S)	0.17 (0-4)
In this module the student will demonstrate how to effectively weld joints in the vertical position (3G & 3F) using the F.C.A.W. process on a base metal, according to American Welding Society Standards.		
WLD 10244 GMAW Welding Joints/Ovhd Pos/4G-4F	(F,W,S)	0.21 (0-5)
In this module the student will demonstrate how to effectively weld joints in the overhead position (4G & 4F) using the G.M.A.W. process on a base metal, according to American Welding Society Standards.		
WLD 10245 FCAW Welding Joints/Ovhd Pos/4G-4F	(F,W,S)	0.21 (0-5)
In this module the student will demonstrate how to effectively weld joints in the overhead position (4G & 4F) using the F.C.A.W. process on a base metal, according to American Welding Society Standards.		
WLD 10246 GMAW Pulse Arc/Flat Pos/1G-1F	(F,W,S)	0.17 (0-4)
In this module the student will demonstrate how to effectively weld joints in the flat position (1G & 1F) using the G.M.A.W. Pulse Arc process on a base metal, according to American Welding Society Standards.		

WLD 10247	GMAW Metal Core Arc Wld/Flat/1G-1F	(F,W,S)	0.17 (0-4)
In this module the student will demonstrate how to effectively weld joints in the flat position (1G & 1F) using the G.M.A.W. Pulse Arc process on a base metal, according to American Welding Society Standards.			
WLD 10248	GMAW Welding Joints Aluminum/All Ps	(F,W,S)	0.33 (0-8)
In this module the student will demonstrate how to effectively weld joints in all positions (flat, horizontal, vertical & overhead) using the G.M.A.W. process with a Aluminum wire, on a base metal, according to American Welding Society Standards.			
WLD 10249	Welding Blueprint Reading	(F,W,S)	0.17 (0-4)
Practically all welding blueprints are incorporated with weld symbols and notations to give the welder needed information to complete a job. A welder must know how to use these symbols and notations to assure that welded assemblies meet design requirements. In this module the student will be able to identify different American Welding Society welding symbols.			
WLD 10250	Fab. Project Using GMAW or FCAW	(F,W,S)	0.5 (0-12)
In this module the student will fabricate a project using the G.M.A.W. or F.C.A.W. process, from a set of prints provided from the instructor. The prints will include a cut list, dimensions, and the appropriate American Welding Society welding symbols needed to complete the project. The instructor must approve all projects before they are started.			
WLD 10251	SMAW Multi-Pass Stringer/Flat/1F	(F,W,S)	0.42 (0-10)
In this module the student will demonstrate how to effectively run stringer beads in the flat position (1G & 1F) using the S.M.A.W. process on a base metal, according to American Welding Society Standards.			
WLD 10252	SMAW Multi-Pass Weave/Flat/1F	(F,W,S)	0.42 (0-10)
In this module the student will demonstrate how to effectively run stringer beads in the flat position (1G & 1F) using the S.M.A.W. process and weave technique, on a base metal, according to American Welding Society Standards.			
WLD 10253	SMAW Welding Joints/Hor Pos/2G-2F	(F,W,S)	0.36 (0-9)
In this module the student will demonstrate how to effectively run stringer beads in the horizontal position (2G & 2F) using the S.M.A.W. process on a base metal, according to American Welding Society Standards.			
WLD 10254	SMAW Welding Joints/Ver Pos/3G-3F	(F,W,S)	0.36 (0-9)
In this module the student will demonstrate how to effectively run stringer beads in the vertical position (3G & 3F) using the S.M.A.W. process on a base metal, according to American Welding Society Standards.			
WLD 10351	Braze Welding V-Groove Butt Joint		0.21
This course will teach the learner the proper way to braze a V-groove butt joint using oxyacetylene.			
WLD 10370	SMAW Welding Joints/Ovhd Pos/4G-4F	(F,W,S)	0.5 (0-12)
In this module the student will demonstrate how to effectively run stringer beads in the overhead position (4G & 4F) using the S.M.A.W. process on a base metal, according to American Welding Society Standards.			
WLD 10371	Fabricate Project Using SMAW	(F,W,S)	0.5 (0-12)
In this module the student will fabricate a project using the S.M.A.W. process, from a set of prints provided from the instructor. The prints will include a cut list, dimensions, and the appropriate American Welding Society welding symbols needed to complete the project. The instructor must approve all projects before they are started.			
WLD 10372	Welding Metallurgy	(F,W,S)	0.9 (0-22)
In this module the student will be able to explain the effects welding has on different metals and what takes place on a molecular level to the different metals when welding is performed on these metals. The student will perform micro-etch inspections to weld joints to identify and measure, penetration, weld size and the heat affected zone, on a variety of different welds performed in several different welding positions and processes.			

WLD 10373	GTAW Setup & Weld Stringer Beads	(F,W,S)	0.42 (0-10)
The gas tungsten arc welding process (abbreviated G.T.A.W.) uses a tungsten electrode and shielding gas for welding metal. In the G.T.A.W. process the weld is produced by the arc maintained between the end of a metal (tungsten) electrode and the part to be welded. In this module the student will demonstrate how to actually establish the arc and make weld beads using the G.T.A.W. equipment correctly.			
WLD 10374	GTAW Weld Joints/Steel/Flat/1G-1F	(F,W,S)	0.42 (0-10)
In this module the student will demonstrate how to effectively weld joints in the flat position (1G & 1F) using the G.T.A.W. process on steel, according to American Welding Society Standards.			
WLD 10375	GTAW Weld Jts/StainSteel/Flat/1G-1F	(F,W,S)	0.42 (0-10)
In this module the student will demonstrate how to effectively weld joints in the flat position (1G & 1F) using the G.T.A.W. process on stainless steel, according to American Welding Society Standards.			
WLD 10376	GTAW Weld Joints/Alum/Flat/1G-1F	(F,W,S)	0.42 (0-10)
In this module the student will demonstrate how to effectively weld joints in the flat position (1G & 1F) using the G.T.A.W. process on aluminum, according to American Welding Society Standards.			
WLD 10377	GTAW Weld Joints/Steel/Hor/2G-2F	(F,W,S)	0.42 (0-10)
In this module the student will demonstrate how to effectively weld joints in the horizontal position (2G & 2F) using the G.T.A.W. process on steel, according to American Welding Society Standards.			
WLD 20450	GTAW Weld Jts/Stain Steel/Hor/2G-2F	(F,W,S)	0.5 (0-12)
In this module the student will demonstrate how to effectively weld joints in the horizontal position (2G & 2F) using the G.T.A.W. process on stainless steel, according to American Welding Society Standards.			
WLD 20451	GTAW Weld Joints/Alum/Hor/2G-2F	(F,W,S)	0.5 (0-12)
In this module the student will demonstrate how to effectively weld joints in the horizontal position (2G & 2F) using the G.T.A.W. process on aluminum, according to American Welding Society Standards.			
WLD 20452	GTAW Weld Joints/Steel/Ver/3G-3F	(F,W,S)	0.5 (0-12)
In this module the student will demonstrate how to effectively weld joints in the vertical position (3G & 3F) using the G.T.A.W. process on steel, according to American Welding Society Standards.			
WLD 20453	GTAW Weld Jts/Stain Steel/Ver/3G-3F	(F,W,S)	0.5 (0-12)
In this module the student will demonstrate how to effectively weld joints in the vertical position (3G & 3F) using the G.T.A.W. process on stainless steel, according to American Welding Society Standards.			
WLD 20454	GTAW Weld Joints/Alum/Ver/3G-3F	(F,W,S)	0.5 (0-12)
In this module the student will demonstrate how to effectively weld joints in the vertical position (3G & 3F) using the G.T.A.W. process on aluminum, according to American Welding Society Standards.			
WLD 20455	GTAW Weld Joints/Steel/Ovhd/4G-4F	(F,W,S)	0.5 (0-12)
In this module the student will demonstrate how to effectively weld joints in the overhead position (4G & 4F) using the G.T.A.W. process on steel, according to American Welding Society Standards.			
WLD 20456	GTAW Weld Jts/StainSteel/Ovhd/4G-4F	(F,W,S)	0.5 (0-12)
In this module the student will demonstrate how to effectively weld joints in the overhead position (4G & 4F) using the G.T.A.W. process on stainless steel, according to American Welding Society Standards.			
WLD 20457	GTAW Weld Joints/Alum/Ovhd/4G-4F	(F,W,S)	0.5 (0-12)
In this module the student will demonstrate how to effectively weld joints in the overhead position (4G & 4F) using the G.M.A.W. process on aluminum, according to American Welding Society Standards.			

WLD 20510	Introduction to Pipe Welding	(F,W,S)	0.21 (0-5)
Pipe welding has much in common with welding plate, sheet metal, or castings. They are made from the same metals, and the metals have the same welding characteristics and welding processes. In this module the student will describe some of the codes governing pipe welding, and the tests you must take to qualify those welds. The student will also explain pipe joint design criteria, edge preparation, welding methods, and accessories needed for pipe welding.			
WLD 20511	Pipe Welding 2G Fixed Position	(F,W,S)	0.67 (0-16)
In this module the student will demonstrate how to effectively weld joints in the 2G Fixed position using multiple processes, on different pipe metals, according to American Welding Society Standards.			
WLD 20512	Pipe Welding 5G Fixed Pos/Vert Up	(F,W,S)	1.04 (0-25)
In this module the student will demonstrate how to effectively weld joints in the 5G Fixed position, vertical up, using multiple processes, on different pipe metals, according to American Welding Society Standards.			
WLD 20513	Pipe Welding 5G Fixed Pos/Vert Down	(F,W,S)	1.04 (0-25)
In this module the student will demonstrate how to effectively weld joints in the 5G Fixed position, vertical down, using multiple processes, on different pipe metals, according to American Welding Society Standards.			
WLD 20514	Pipe Welding 6G Fixed Position	(F,W,S)	1.04 (0-25)
In this module the student will demonstrate how to effectively weld joints in the 6G Fixed position, using multiple processes, on different pipe metals, according to American Welding Society Standards.			
WLD 20606	6 Welder Qualifications & Projects	(F,W,S)	4 (0-96)
In this module the student will demonstrate the ability to pass up to 6 welding qualifications according to the American Welding Society Standards, including all necessary documentation such as WPS, PQR & WPQR's and complete designated projects with the Instructor's approval.			
WLD 207--	Directed Study-Welding Techniques	(V)	1-4
This course is designed to meet special occupational needs for the individual student. Prerequisite: recommendation of an advisor. All proposals designed for purposes of directed study must be approved by the Welding instructor prior to starting.			

WORLD LANGUAGES (LAN)

FRE 11000 French I **(F,W)** **4 (4-0)**

This course concentrates on functional communication. Communication is a primary goal with grammar to support this goal. This course will also introduce the student to the cultures associated with the language. (Humanities Credit)

FRE 12000 French II **(W)** **4 (4-0)**

A continuation of Language I with further development of oral and written skills. The goal is to increase confidence and comfort with the cultures and language. Prerequisite: FRE-11000 or permission of instructor - NOTE: Students who have taken French in high school are encouraged to contact the instructor for permission to take this level II course. (Humanities Credit)

SGN 10200 Fingerspelling **(W)** **2**

Students will learn the use of hand shapes to represent letters of the alphabet used in American Sign Language. The course will focus on reading "words" and not letters. (Humanities Credit)

SGN 11000 American Sign Language I **(F)** **4**

This course covers the beginning level of the native language of the deaf. Students will develop receptive and expressive skills in fingerspelling, vocabulary, and short sentences. Objectives are met through use of drills, videos, and occasional guests who are deaf. NOTE: There is no prerequisite, but prior knowledge of ASL is helpful. (Humanities Credit)

SGN 12000 American Sign Language II **(W)** **4**

This course is a continuation of American Sign Language I. Prerequisite: SGN-10000 or permission of instructor. (Humanities Credit)

SGN 13000 American Sign Language III **(V)** **4**

This course is a continuation of American Sign Language II. Prerequisite: SGN-10100. (Humanities Credit)

SPN 11000 Spanish I **(F)** **4 (4-0)**

This course concentrates on functional communication. Communication is a primary goal with grammar to support this goal. This course will also introduce the student to the cultures associated with the language. (Humanities Credit)

SPN 12000 Spanish II **(W)** **4 (4-0)**

A continuation of Language I with further development of oral and written skills. The goal is to increase confidence and comfort with the cultures and language. Prerequisite: SPN-11000 or permission of instructor - NOTE: Students who have taken Spanish in high school are encouraged to contact the instructor for permission to take this level II course. (Humanities Credit)

PERSONNEL

KIRTLAND COMMUNITY COLLEGE ADMINISTRATION

Thomas Quinn, President

B.A. University of Minnesota
M.A. University of Northern Iowa
Ed.S. Winona State University
Ph.D. University of South Dakota

Stacey Barnes, Dean of Student Services

B.S. Ferris State University
M.A. Central Michigan University

Jerry Boerema, Associate Dean of Instruction

A.A.S. West Shore Community College
B.A. Central Michigan University
M.S.A. Central Michigan University

JoAnn Comerford, Director of Facilities

A.A.S. Kirtland Community College
B.B.A. Northwood University

Mary Ann Frick, Associate Dean for Health Sciences

B.S.N. Niagara University
M.S.N. Michigan State University

Edmund Koliba, Chief Business and Financial Officer

B.S. Oakland University
M.B.A. Saginaw Valley State University

Kathy Marsh, Dean of Instruction

B.S. Lake Superior State College
M.S. George Washington University

Timothy Scherer, Director of Institutional Services

A.A.S. Community College of the Air Force
B.S. Park College

Dale Shantz, Director of Human Resources

B.A. University of Michigan
M.A. Michigan State University

FULL-TIME FACULTY AND COUNSELORS

James Backlund, Instructor: Psychology/Sociology

B.S. Northern Michigan University
M.A. Western Michigan University

Lisa Balbach, Instructor: Computer Information Systems/Faculty Chair

B.S. University of Minnesota
M.A. University of Minnesota

Kevin Baughn, Instructor: Mathematics

A.A.S. Sinclair Community College
B.S. Wright State University
M.A. Wright State University

Richard Bonk, Instructor: Automotive Technology

A.A.S. Kirtland Community College
B.A. Spring Arbor University

Scott Cochran, Instructor: Physical Science

B.S. Michigan State University
B.S. Eastern Michigan University
M.S. University of Michigan

Joseph Donna, Instructor: Art

B.F.A. Michigan State University
M.F.A. Michigan State University

Donald Dyer, Director of Counseling

B.A. Syracuse University
M.S. State University College at Oneonta

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B.A. University of Windsor
M.S. Wayne State University
Ph.D. Michigan State University

Carol Finke, Instructor: English

B.A. University of Michigan
M.A. Iowa State University

Eugene Frazier, Instructor: Computer Information Systems

A.A.S. Palomar College
B.A. Temple University
M.S. National University
M.S. University of Southern California

Frederic Giacobazzi, Instructor: English/Faculty Chair

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M.A. Wayne State University

Katherine Girard, Instructor: Health Careers

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M.S.N. Saginaw Valley State University

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B.S. Ferris State University
M.B.A. University of Detroit
Ed.D. Northern Illinois University

Kerry Harwood, Instructor: Outdoor Power Engines and Industrial Technologies, M-TEC
 A.A.S. Kirtland Community College
 B.S. Ferris State University
 M.A. Central Michigan University

Anne Hauser, Instructor: Science/Faculty Chair
 A.A.S. Cayuga Community College
 B.S. State Univ. of NY College at Cortland
 M.S.E. State Univ. of NY College at Cortland

Wendy Hillman, Instructor: Nursing
 B.S.N. Mercy College of Detroit
 M.S.N. Wayne State University

Charles Hinman, Instructor: Criminal Justice
 A.A.S. Mid Michigan Community College
 B.S. Saginaw Valley State University

Nicholas Holton, Instructor: Mathematics
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 B.S. Grand Valley State University
 M.S. Western Michigan University

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Jane Lange, Instructor
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 B.A. Spring Arbor University
 M.B.A. Walden University

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 A.A.S. Macomb Community College
 B.S. Central Michigan University
 M.A. Spring Arbor University

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 B.A. Spring Arbor College
 M.S. University of Vermont

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 M.A. Central Michigan University
 M.S.N. Grand Valley State University

Susan Owens, Instructor: Health Careers
 B.S.N. Hope College
 M.S.N. Northern Michigan University

Nancy Pavelek, Instructor: Health Careers
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 B.S.N. University of Michigan
 M.S.N. Michigan State University

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 M.A. Central Michigan University

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 B.S. Central Michigan University
 M.A. Central Michigan University

Jacquelyn Smith, Instructor: Nursing
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 M.S.N. Wayne State University

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 M.A. Central Michigan University
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Ginna Wenger, Instructor: English
 B.A. Central Michigan University
 M.A. Central Michigan University
 Ph.D. Andrews University

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Members as of April 2008

C. A. Pepper Karstendiek, President William Curnalia, Vice President Ruggero Dozzi, Treasurer Thomas Quinn, Secretary

Pauline Cournyer

Ruth Ferguson

Bill Gannon

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Teresa Money

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Alan Mabarak	Eric Moore	Kevin Wescott

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Dave Dagen	Jerome Newton	Lee Teschendorf
David Deeter	Robert Lancaster	James Twarog
Douglas Dosson	Barney Ledford	Gary Van Riper
Justin Eastman	Andrea Martin	Russell Wayne
Scott Feldhauser	Matthew Nowicki	Greg Wood

Cosmetology

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Ann Colcanclasure	Teresa Henry	Mary Rom
Roxie Fernelius	Nancy Magdama	Wendy Sheldon
Billie Grezeszak	Carmen Miller	Robin Winton
Patrick Hanafin		

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Carl Bourdelais	Eric Johnson	Miriam Stoloche
Lois Byrd	Jane Lange	Handrich
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	Steve Leonard	

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Linda Coffell	Jane Korthase	Coleen Smith
Noreen Connelly	Della Lambert	Jackie Smith
Melody Culey	Diane Larson	Mary Steel
Sheryl Dana	Jeri Liphard	Lisa Stier
Kathy Dankert	Sue Lovelace	Paula Stopjik
Gleniss Daversa	Sue Lucksted	Pam Swantek
Anne Essmaker	Julie McClure	Dana Sylvester
Mark Eubank	Tana McKulsky	Cincy Tallent
Karen Farley	Beth Mogle	Lori Taylor
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Linda Cunningham	Lisa Lashley	Sarah Schmidt
Linda Curtis	Leann Leach	Christine Sneden
Mary Dasho	Alishia Lynd	Leah Sutherby
Monica Durango	Jeannie McCans	Kathy Taylor
Rhoda Emerick	Cindy Miller	Peggy Thurnham
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Outdoor Power Engines (M-TEC)

Kerry Harwood	Don Lash	Bob Sussman
Jim Lappan, Jr.	Mark McCully	Mike Zipster

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Don Dyer	Tim Scherer	

Kerry Harwood, Instructor: Outdoor Power Engines and Industrial Technologies, M-TEC
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 B.S. Ferris State University
 M.A. Central Michigan University

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 B.S. State Univ. of NY College at Cortland
 M.S.E. State Univ. of NY College at Cortland

Wendy Hillman, Instructor: Nursing
 B.S.N. Mercy College of Detroit
 M.S.N. Wayne State University

Charles Hinman, Instructor: Criminal Justice
 A.A.S. Mid Michigan Community College
 B.S. Saginaw Valley State University

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 M.A. Central Michigan University

Kate Jakobson, Director of Tutoring and Student Success
 B.S. Grand Valley State University
 M.S. Western Michigan University

Matt Kearis, Instructor: English
 B.S. Eastern Michigan University
 M.A. Eastern Michigan University

Denise Kemp, Instructor: Life Science
 B.S. Saginaw Valley State University
 M.S. Central Michigan University

Jane Lange, Instructor
 B.S. Ferris State University
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Lisa Lashley, Instructor: Office Information Systems
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Alan Mabarak, Instructor: Construction Trades, M-TEC
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Douglas Mace, Instructor: Mathematics
 B.A. Spring Arbor College
 M.S. University of Vermont

Beth Mogle, Instructor: Nursing
 B.S.N. Oakland University
 M.A. Central Michigan University
 M.S.N. Grand Valley State University

Susan Owens, Instructor: Health Careers
 B.S.N. Hope College
 M.S.N. Northern Michigan University

Nancy Pavelek, Instructor: Health Careers
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 B.S.N. University of Michigan
 M.S.N. Michigan State University

Jason Prout, Instructor: Engineering Design Technology
 B.S. Central Michigan University
 M.A. Central Michigan University

Scott Rice, Instructor: Art
 B.F.A. Ferris State University
 M.F.A. Central Michigan University

Marcell Romancky, Instructor: Mathematics/Faculty Chair
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 B.S. Central Michigan University
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Jacquelyn Smith, Instructor: Nursing
 B.S.N. Northern Michigan University
 M.S.N. Wayne State University

John Thiel, Instructor: History/Faculty Chair
 B.A. Michigan State University
 M.A. Michigan State University

Jon Thompson, Instructor: English
 B.A. Alma College
 M.A. Central Michigan University
 Ph.D. Central Michigan University

Sinan Toprak, Instructor: Political Science
 B.A. University of Bursa
 M.A. Western Michigan University

Shannon Weaver, Instructor: Cosmetology
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