

# Kirtland Community College



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# WELCOME

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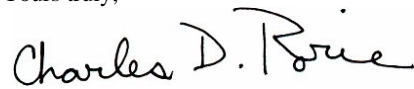
## A MESSAGE FROM THE PRESIDENT

Welcome to the “college in the woods!” Your success is our business. Call on us for whatever you need. Let us help you plan and prepare for your life’s careers. We are delighted to have you join the Kirtland family.

While you are at KCC, you should also take advantage of our intercollegiate athletics, cultural events, skiing, hiking, swimming, canoeing, golfing, etc. Enjoy our unique and beautiful setting!

You can feed our deer, wild turkeys, squirrels, chipmunks, and small birds, but don’t get too close to our raccoons, bald eagles, and bears!

Yours truly,



Charles D. Rorie, Ph.D.  
President



## BOARD OF TRUSTEES



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Chair



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Vice Chair



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**Roberta Werle**  
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Full-time Classified Staff  
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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. Doty Latuszek is the 504 Coordinator and the ADA Compliance Officer for M-TEC<sup>SM</sup> at Kirtland-Gaylord.

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# VISION, MISSION, AND GUIDING PRINCIPLES

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## **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.

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# ASSURANCE OF QUALITY

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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 critical reasoning, writing and communication, scientific inquiry, mathematical reasoning, computer literacy, 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	Controlled Burn Reading Series	Performing Artists Series
Brown Bag Lunch Series	Cultural Events	Service Learning Program
Center for the Performing Arts	Global Awareness Program	Student Writing and Art Competitions
Community Education Program	Kirtland Youth Theatre	Kirtland’s Warbler Festival

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	Mio.....	30 miles
Fairview.....	40 miles	Roscommon.....	11 miles
Frederic.....	35 miles	Rose City.....	35 miles
Houghton Lake.....	30 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 June.

## 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 325.

# M-TEC<sup>SM</sup> AT KIRTLAND GAYLORD

Michigan Technical Education Center

## Introduction

The M-TEC<sup>SM</sup> at Kirtland-Gaylord is a state-of-the art facility offering technical education in a unique, flexible, student-friendly manner. M-TEC<sup>SM</sup> 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-TEC<sup>SM</sup> 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.

## 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 high-skill, high-wage, high-demand occupations. To ensure that graduates are well-prepared for entry into these occupations, 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-TEC<sup>SM</sup> serves postsecondary students who are interested in apprenticeship training, postsecondary degree programs, and job skills development. The specific programs at the M-TEC<sup>SM</sup> include the following:

### Certificate of Completion

Carpentry  
Electrical Technology  
Heating/Ventilation/AC/Refrigeration  
Industrial Maintenance  
Industrial Processes Technician  
Outdoor Power Engines

### Associate in Applied Science

Carpentry  
Electrical Technology  
Heating/Ventilation/AC/Refrigeration  
Industrial Maintenance  
Outdoor Power Engines

## **Workforce Development**

The Workforce Development Programs serve specific employers in the region and their current employees who are seeking job skills upgrades and/or personal growth. Areas of concentration include, but are not limited to, manufacturing technology, construction technology, information technology, human resources, MIOSHA safety, and business practices. For additional information, please call 989-705-3601.

### ***WorkKeys<sup>R</sup>***

WorkKeys<sup>R</sup> is 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 these assessment 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<sup>R</sup> Software. PLATO<sup>R</sup> Software has been designed to interface with the WorkKeys<sup>R</sup> test and will automatically navigate a student to learning modules designed to meet their individual learning needs.

## **Dual Enrollment**

Kirtland Community College will partner 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.

## **Additional Programs**

A key component of the mission of the M-TEC<sup>SM</sup> is to provide educational opportunities to the Center's business and industry partners specifically designed to upgrade and/or enhance the job skills necessary to compete in a local, state, national, and global economy. Many of the training needs of industry are met through the modules developed for the manufacturing and construction technology certificate and degree programs. Employers are able to choose training topics for their employees from over 400 different modules in an effort to improve the skills of their existing workforce. When necessary, new courses will be developed. Planning beyond manufacturing and construction technology includes the following:

***Information Technology:*** Microsoft XP, Office XP, Excel spreadsheets, Access databases, and PowerPoint.

***Business:*** Supervisory Training Series, Customer Relations, Labor Law Series (FLSA, MIOSHA, ADA, FMLA), and a Small Business Development Programming Series.

***Safety Training:*** An ongoing series of MIOSHA training sessions required by employers from a variety of business and industries will be provided throughout the year to meet ongoing and new State requirements.

## **Program Delivery**

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

## **The M-TEC<sup>SM</sup> Facility**

Construction of this state-of-the-art 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-TEC<sup>SM</sup> 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-TEC<sup>SM</sup> facility contains both a precision tool and general manufacturing lab, a construction technology lab, a welding lab, and a computer aided drafting and manufacturing design lab, as well as classrooms that support general and computerized instruction and distance education. Meeting and videoconferencing rooms with state-of-the-art technology are available for use by business, industry, and community partners. Additionally, a Learning Resource Center is available to students enrolled at the M-TEC<sup>SM</sup> as a result of the partnership with the University Center at Gaylord. For information, contact the M-TEC<sup>SM</sup> at Kirtland-Gaylord at 989-705-3600.

## **Residency Rules**

Residents of Otsego County or the Kirtland Community College district should bring proof of residency in order to prove eligibility for in-district tuition rates.

In those instances when classes may be canceled due to inclement weather or other unusual circumstances, students should call the M-TEC<sup>SM</sup> weather line at 989-705-3696. A pre-recorded message will indicate whether classes are being held that particular day.

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## STUDENT PROFILE (2005 Fall Semester)

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**Total enrollment (census date): 2,237**

**Student Gender:**

Males ..... 46%  
 Females ..... 54%

**Student Age Distribution:**

24 and under ..... 39%  
 25 to 39 ..... 33%  
 40 to 59 ..... 23%  
 60 and older ..... 4%  
 Unknown ..... under 1%

**County of Residence:**

Crawford ..... 11%  
 Ogemaw ..... 16%  
 Oscoda ..... 7%  
 Roscommon ..... 23%  
 Other ..... 43%

**Student Credit Hour Load:**

Personal Interest ..... 10%  
 Part-Time: 1-11.99 credit hrs ..... 61%  
 Full-Time: 12 & over credit hrs ..... 29%

**Student Status:**

FTIAC (first time in any college) ..... 18%  
 Returning to KCC ..... 70%  
 First-time Transfer ..... 10%  
 Guest ..... 2%

**Student Program Areas:**

Art ..... 1%  
 Automotive ..... 2%  
 Business ..... 3%  
 Contracting with Business and Industry ..... 1%  
 Construction Technology ..... 2%  
 Cosmetology ..... 2%  
 Criminal Justice ..... 5%  
 Health Careers ..... 22%  
 Industrial Technology ..... 3%  
 Science ..... under 1%  
 Secretarial ..... 4%  
 Transfer ..... 19%  
 Personal Interest ..... 35%

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## 2006-2007 COLLEGE CALENDAR

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

### FALL 2006 SEMESTER

Fall Early Registration ..... Monday – Friday ..... July 10-14 & 17-21, 2006  
 Fall Registration ..... Monday – Friday ..... August 21-25, 2006  
 Fall 2006 Semester Begins ..... Saturday ..... August 26, 2006  
 Late Registration ..... Monday & Tuesday ..... August 28-29, 2006  
 Labor Day Break ..... Saturday – Tuesday ..... September 2-5, 2006  
 Thanksgiving Break ..... Wednesday – Sunday ..... November 22-26, 2006  
 Fall 2006 Semester Ends ..... Sunday ..... December 17, 2006

### WINTER 2006 SEMESTER

Winter Early Registration ..... Monday - Friday ..... November 27-December 8, 2006  
 Winter Registration ..... Monday - Friday ..... January 8-12, 2007  
 Winter 2007 Semester Begins ..... Saturday ..... January 13, 2007  
 Late Registration ..... Monday & Tuesday ..... January 15-16, 2007  
 Spring Break ..... Monday – Sunday ..... March 5-11, 2007  
 Easter Break ..... Friday – Sunday ..... April 6-8, 2007  
 Commencement ..... Friday ..... May 5, 2007  
 Winter 2007 Semester Ends ..... Sunday ..... May 6, 2007

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



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# DIRECTORY OF SERVICES

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<b>MAIN SWITCHBOARD</b>	<b>989-275-5000</b>
Telecommunication Device for the Deaf (TDD)	989-275-6721

<b>Offices</b>	<b>Extension</b>
<b>ADMISSIONS</b> .....	<b>284</b>
This office is responsible for admission of all new students, new student recruitment activities, and admissions advising.	
<b>BOOKSTORE</b> .....	<b>273</b>
Located in the student center, the bookstore provides textbooks, reference books, classroom supplies, clothing, gift items and souvenirs, some snacks, and miscellaneous sundries.	
<b>CAFETERIA</b> .....	<b>268</b>
Located in the student center and is open Monday - Friday. Hours and specials are posted in the student bulletin.	
<b>CAREER AND EMPLOYMENT SERVICES</b> .....	<b>450</b>
This office helps students research specific careers and career opportunities. Assistance with job search strategies, résumé writing, and interviewing techniques is also provided.	
<b>COUNSELING OFFICE</b> .....	<b>280</b>
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.	
<b>DEPARTMENT OF PUBLIC SAFETY</b> .....	<b>355</b>
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:	
<ul style="list-style-type: none"> <li>• After-dark escort service from buildings to vehicles</li> <li>• Response to criminal behavior complaints</li> <li>• Preventative workshops/seminars on drug/alcohol awareness, rape awareness, use of weapons, etc.</li> <li>• The addressing of parking and traffic violations</li> <li>• Provision of vehicle emergency assistance (keys locked inside vehicle, jump-starting vehicle, etc.)</li> </ul>	
<b>FINANCIAL AID</b> .....	<b>257</b>
This office helps students apply for financial assistance including grants, loans, scholarships and student employment.	
<b>LIBRARY</b> .....	<b>246</b>
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.	
<b>SERVICES FOR STUDENTS WITH DISABILITIES</b> .....	<b>252</b>
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.	
<b>INSTRUCTION OFFICE</b> .....	<b>270</b>
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.	
<b>RECORDS/REGISTRATION OFFICE</b> .....	<b>251</b>
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

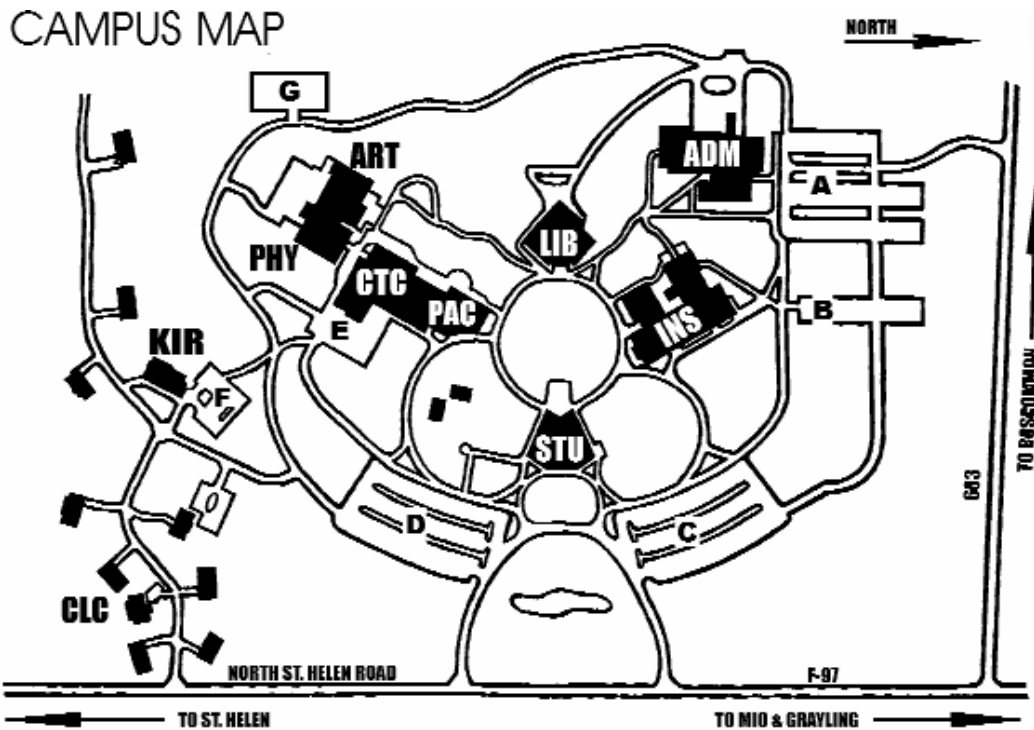
Telecommunication Device for the Deaf (TDD)

**989-275-5000**

989-275-6721

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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.

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# **PAYING FOR COLLEGE**

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## **TUITION AND FEES**

### **Tuition**

For current tuition and fee rates please refer to our website at <http://kirtland.edu/accounting/tuitionsummary.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 “My Account” menu on 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 not been met.

### **Methods of Payment**

**Cash, Check, or Money Order** - Payment may be made in person or by mail. 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: [www.kirtland.edu](http://www.kirtland.edu)

**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 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 due date, the student must be prepared to pay. He/she may be reimbursed after the award has been posted to the account.

### **FACTS Payment Plan**

Students with a tuition and fee balance of \$100.00 or more may be eligible for the FACTS Payment Plan. 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 four months per semester. The earlier a student registers, the smaller the monthly payments can be. **If a student plans to make payments through FACTS, an online application must be submitted by the payment due date or on the day of registration. Otherwise, the student's classes will be canceled.** After registering for classes, students can apply online by logging into myKirtlandWeb at: [www.kirtland.edu](http://www.kirtland.edu). Once you are logged in click on the student tab, click on submit in the FACTS window at the bottom of the page. Then, click the e-cashier icon and follow the application directions. Once the application is submitted, the student will receive an e-mail from FACTS verifying the agreement. More information is available online on the accounting web pages at: [www.kirtland.edu/accounting](http://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
- Rental receipt with address on it
- Voter registration card
- Place of residence property tax receipt
- Secretary of State identification 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 within 45 days. 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 to him or her.

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 to the Department of Education. 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 three out of four 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 financial assistance (including student loans and work study) must complete and file the Free Application for Federal Student Aid (FAFSA) available from Kirtland's office of financial aid. An electronic application may also be accessed at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). This is not an application for any particular form of aid; rather, it is an application **for needs analysis**, on which most 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:

#### **Student Budget - Expected Family Contribution = 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.
- has 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 45 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 typewritten 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 new 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.

#### **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.

This grant is awarded to undergraduate students demonstrating financial need. For the 2006-2007 academic year an annual award of up to \$4050 is possible. Awards are pro-rated based on the actual enrollment level of the student each semester.

#### **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.

## **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.

#### **CONTRACTING WITH BUSINESS/INDUSTRY SCHOLARSHIP**

This scholarship is limited to students pursuing a CWB&I certificate or degree.

#### **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.

#### **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

### **VA Application Process**

VA application forms are available online at [www.gibill.va.gov](http://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 payment should contact the financial aid office on campus or call the VA 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](http://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.

### **MICHIGAN VETERANS TRUST FUND**

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.

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## **REGISTRATION AND ACADEMIC POLICIES**

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### **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](http://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](http://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 C 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](http://www.kirtland.edu), and select "My Grades". 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.

Academic achievement is recorded as follows:

<b>Honor Point</b>	<b>Grade Definition</b>	<b>Value</b>
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
IP.....	Denotes class in progress.....	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](http://www.kirtland.edu). Students can print an unofficial transcript by logging into myKirtland, then selecting "My Grades".

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 have registered. If a withdrawal is made before or on the census date, no grade will be recorded. However, for withdrawals made after the census date and through the 14th week of the semester or through the sixth week of the summer session, a grade of W will be automatically issued. Check the class schedule or contact the records office for more information concerning the grading system for withdrawals.

A student withdrawing from a course must complete a drop form, and submit it to the records/registration office. Students are advised to have the form signed by his/her faculty advisor or the instructor of the course. Students receiving financial assistance (PELL, veterans benefits, single parent/homemaker, etc.) are advised to discuss the impact that withdrawal from classes may have with the financial aid office before having the Add/Drop form processed by the records office. A student withdrawing from a course must also gain approval from the dean or associate dean of his/her program if the withdrawal is being made after the fourteenth week of the semester or after the sixth week of the summer session. The student must then submit the completed form to the student services office for processing.

Generally, 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, an "administrative withdrawal" may be authorized by the dean of student services.

Tuition refunds, which may be appropriate, are contingent upon proper completion of the withdrawal procedure within the semester refund period. Check the class schedule for more information about refunds.

## **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 (petitionee'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

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## EXPLORING EDUCATIONAL CHOICES

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### 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](http://www.macrao.org)

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## SUPPORTING ACADEMIC SUCCESS

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### LEARNING RESOURCES

#### Library

The library exists to serve 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. Academic reference services are available in-house or by phone. 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.

Resources available in the library include a 30,000-volume print collection and over 15,000 e-books, accessible through the online catalog ([www.kirtland.edu/library](http://www.kirtland.edu/library)). The library subscribes to over 200 magazines, journals, and newspapers, with an additional 1,000 available in electronic format. These can be found through the online indexes. Materials not available in the library can be obtained by inter-library loan from an international consortia of libraries. 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, and after hours, by appointment. This service helps students with topic formulation and research. Call the director of the library, extension 246, 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](mailto:eservices@kirtland.edu), or call 989-275-5000 ext. 499 Monday-Thursday 8:00 a.m. – 4:30p.m. and 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").



## **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 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 is provided to those students needing occasional help in math classes; check with the tutorial center for days and times.
- 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.
- EDU 12500 (Learning Theory) is offered, as well as workshops for tutors, supplemental instruction leaders, and other interested people on learning styles, learning disabilities, and tutoring techniques.
- Online tutoring, as well as off campus tutoring, are available in some subject areas.

## **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 center, call extension 211.

## **WRITING CENTER**

The writing center is staffed by specially-trained members of the Kirtland faculty and offers guided instruction to students seeking to improve their writing skills. The self-paced writing course ENG-10000 (Writing Lab) is taught here. Because the skills taught in Writing Lab support those taught in English Composition, most students take ENG-10000 concurrently with ENG-10300 or ENG-10303.

Drop-in services to help with specific questions or specific pieces of writing are also provided to Kirtland students, faculty, and staff in the writing center, room 134, in the administration center. For further information, call extension 386 or 338.

Online services (similar to the on-campus drop-in services) are available through the Kirtland HOWL (Helpful Online Writing Lab) located at: <http://services.kirtland.edu/howl/>

## **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.

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# RECOGNIZING EXCELLENCE

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

Interested students should contact the honors secretary at 989-275-5000, extension 359. The office is located in the deans 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 2006-07, the study topic is "Gold, Gods and Glory: The Global Dynamics of Power Pop Culture: Shaping and Reflecting Who We Are", 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](mailto:kochk@kirtland.edu). Additional information about Phi Theta Kappa can also be obtained at the following web site address: [www.ptk.org](http://www.ptk.org)

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## **GETTING INVOLVED**

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### **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.

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# **SAFETY, SECURITY, AND EMERGENCIES**

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## **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 public 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 1999-2001, to either the Kirtland department of public safety or the Roscommon County Sheriff's office.

## **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, 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:

<b>Reported Offenses</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>Arrests</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
Murder	0	0	0	Liquor Law Violations	34	2	5
Sex Offenses-Forcible	2	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	0				0
Burglary	0	1	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](http://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](http://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-TEC<sup>SM</sup> AT KIRTLAND-GAYLORD CLASSES:** Students should call the M-TECSM 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."

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## PROTECTING STUDENT RIGHTS

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**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](http://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-TEC<sup>SM</sup> 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-TEC<sup>SM</sup> 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:
  - . Unauthorized entry into a file, whether to use, read, change or for any other purpose.
  - a. Unauthorized transfer of a file.
  - b. Unauthorized use of another individual's identification and password.
  - c. Use of computing facilities to interfere with the work of another student, faculty member or college official.
  - d. Use of computing facilities to send obscene or abusive messages.
  - e. Use of computing facilities to interfere with normal operation of the college's computing system.
  - f. 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. 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. (A recommended sanction must be provided by the instructor to the appeal committee and may include expulsion.)

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 unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials.

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 or non-academic.

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 dean of student services shall meet with the person (complainant) who has filed a charge against another person or student organization. During this meeting, the dean will review the charge and procedure with the complainant. The dean 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 a student wishes to appeal a grade or academic decision, s/he must first meet with the faculty member to discuss his/her grievance.
- B. 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.
- C. 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.
- D. 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.
- E. 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.
- F. 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.
- G. 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-TEC<sup>SM</sup> AT KIRTLAND-GAYLORD

The M-TEC<sup>SM</sup> at Kirtland-Gaylord is a state-of-the-art facility offering technical education in a unique, flexible, student-friendly manner. The M-TEC<sup>SM</sup> 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-TEC<sup>SM</sup> 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-TEC<sup>SM</sup> 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](http://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 mailed to all households in the college district, and are available online at [www.kirtland.edu](http://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 does 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.

### WEB SITE

Kirtland's web site can be accessed at: [www.kirtland.edu](http://www.kirtland.edu)

# 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.)

**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; CC = Certificate of Completion; SC – Special Certificate

## ARTS

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

## AUTOMOTIVE

Automotive Chassis Specialist, SC  
Automotive Electrical Systems Specialist, SC  
Automotive General, SC  
Automotive Powertrain Specialist, SC  
Automotive Technology, AAS  
Automotive Technology Master Certification, CC

## BUSINESS

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

## COMPUTER INFORMATION SYSTEMS

Computer Networking (CWB&I), CC  
Computer Technician (CWB&I), CC  
Web Master Level I (CWB&I), CC  
Web Master Level II (CWB&I), CC  
Associate in Computer Information Systems, Transfer  
Associate in Computer Science, Transfer

## CONSTRUCTION TECHNOLOGY

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

## COSMETOLOGY

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  
Salon Management - Cosmetology, AAS  
Salon Management - Cosmetology Instructor, AAS  
Salon Management - Nail Technician, AAS  
Salon Management – Skin Care Technician, AAS

## CRIMINAL JUSTICE

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

## CUSTOMIZED TRAINING

Contracting with Business & Industry (CWB&I), AAS  
Contracting with Business & Industry (CWB&I), CC

## EDUCATION

Associate in Teaching, Transfer  
Paraprofessional, AAS

## HEALTH CAREERS

Basic Emergency Medical Technician (EMT), SC  
Emergency Medical Services (Paramedic), 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

## HONORS PROGRAM

## INDUSTRIAL TECHNOLOGIES

Architectural Design, CC (Main Campus)  
Engineering & Design Technologies, AAS (Main Campus)  
Industrial Maintenance, CC and AAS (M-TEC Gaylord)

## CONSTRUCTION TECHNOLOGY -M-TEC<sup>SM</sup>/GAYLORD

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

## OFFICE INFORMATION SYSTEMS

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

## SCIENCE

Plant Science, AAS

## TECHNOLOGY MANAGEMENT

Technology Management, AAS

## TRANSFER

Associate in Arts, AA  
Associate in Business Administration, ABA  
Associate in Computers  
Associate in Criminal Justice - Generalist  
Associate in Fine Arts, AFA  
Associate in Science, AS  
Associate in Teaching  
Pre-Engineering  
Pre-Natural Resources  
Pre-Optometry  
Pre-Pharmacy  
Pre-Veterinary Medicine  
Pre-Chiropractic

## KIRTLAND PROGRAMS AND INSTRUCTIONAL ADMINISTRATORS

Business & Technology, Math, Science, & Health	Industrial & Construction Technology	Arts & Communication, Human Services & Social Science																							
<p><b>PROGRAMS:</b></p> <p><b>Associate in Business Administration</b> Business Management Entrepreneurship, General Business</p> <p><b>Associate in Computers</b> Computer Science, Information Systems</p> <p><b>Associate in Science</b> Life Science &amp; Physical Science</p> <p><b>Automotive</b> Chassis, Electrical Systems, General Powertrain., Master Certification</p> <p><b>Aviation</b></p> <p><b>Cosmetology</b> Cosmetology, Cosmetology Instructor Nail Technician, Salon Management</p> <p><b>Health Careers</b> Emergency Medical Technician Massage Therapy, Nursing, Paramedic, Radiography</p> <p><b>Office Information Systems</b> Administrative Assistant, Legal Secretary Medical Billing &amp; Coding Medical Clerk, Medical Secretary Medical Transcription Office Assistant, Word Processing</p> <p><b>Plant Science</b> Horticulture, Turfgrass, Landscape &amp; Nursery</p>	<p><b>PROGRAMS:</b></p> <p><b>Industrial Technologies</b> Computer Aided Design Machine Tool Manufacturing Processes Multi-Technology Welding</p> <p><b>M-TEC<sup>SM</sup> Programs</b> Carpentry Electrical Technology Heating/Ventilation/AC/Refrigeration Industrial Maintenance Machine Tool Welding &amp; Fabricating</p>	<p><b>PROGRAMS:</b></p> <p><b>Associate in Arts</b></p> <p><b>Associate in Fine Arts</b> Creative Writing Studio Art Theatre Arts</p> <p><b>Associate in Criminal Justice</b></p> <p><b>Criminal Justice</b> Administration Corrections Generalist Pre-Service</p> <p><b>Graphic Design</b></p> <p><b>Police Academy</b></p>	<p><b>PROGRAMS:</b></p> <p><b>Assessment Program</b></p> <p><b>Contracting with Business &amp; Industry</b></p> <p><b>Chair of Instructional Deans</b></p> <p><b>Chief Instructional Officer</b></p> <p><b>Controlled Burn</b></p> <p><b>COOR</b></p> <p><b>EAGs</b></p> <p><b>Honors Program</b></p> <p><b>High School Counselors</b></p> <p><b>High School Principles</b></p> <p><b>MODAC</b></p> <p><b>Perkins</b></p> <p><b>Retention</b></p> <p><b>Secretarial Supervision</b></p> <p><b>Technical Prep Oversight</b></p> <p><b>Testing Services</b></p> <p><b>The Paper</b></p> <p><b>TSB FT Faculty</b></p> <p><b>TSPS PT Faculty</b></p> <p><b>Tutoring</b></p> <p><b>Young Writers</b></p>																						
<p><b>COURSES:</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Accounting</td> <td style="width: 50%;">Allied Health</td> </tr> <tr> <td>Automotive</td> <td>Aviation</td> </tr> <tr> <td>Biology</td> <td>Business</td> </tr> <tr> <td>Chemistry</td> <td>Communication</td> </tr> <tr> <td>Computer Info Sys</td> <td>Cosmetology</td> </tr> <tr> <td>Developmental Math</td> <td>Economics</td> </tr> <tr> <td>ESL</td> <td>Geology</td> </tr> <tr> <td>Language</td> <td>Massage Therapy</td> </tr> <tr> <td>Mathematics</td> <td>Nursing</td> </tr> <tr> <td>Office Info Systems</td> <td>Physics</td> </tr> <tr> <td>Speech</td> <td></td> </tr> </table>	Accounting	Allied Health	Automotive	Aviation	Biology	Business	Chemistry	Communication	Computer Info Sys	Cosmetology	Developmental Math	Economics	ESL	Geology	Language	Massage Therapy	Mathematics	Nursing	Office Info Systems	Physics	Speech		<p><b>COURSES:</b></p> <p>Carpentry Engineering Design Technology Electrical HVAC-R Industrial Maintenance Machine Tool Manufacturing Welding</p>	<p><b>COURSES:</b></p> <p>Art DEV Reading &amp; Writing Criminal Justice Education            English Geography            History Music Philosophy Political Science Psychology Sociology Theatre</p>	
Accounting	Allied Health																								
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<p><b>OTHER:</b></p> <p>Campus Wellness Community Education MLAD Service Learning TSB</p>	<p><b>OTHER:</b></p> <p>Administrator of M-TEC Workforce Development</p>	<p><b>OTHER:</b></p> <p>Academic Amnesty Campus Security CIC Chair            CJ Advising Fitness Center    Public Safety TSPS PT Faculty</p>																							
<p><b>Administrator</b> <i>Karen Brown</i> Associate Dean of Instruction</p> <p>989-275-5000, ext. 298</p>	<p><b>Administrator</b> <i>Doty Latuszek</i> Provost – M-TEC</p> <p>989-705-3683</p>	<p><b>Administrator</b> <i>Jerry Boerema</i> Associate Dean of Instruction</p> <p>989-275-5000, ext. 283</p>	<p><b>Administrator</b> <i>Kathy Marsh</i> Dean of Instruction</p> <p>989-275-5000, ext. 245</p>																						

**Special Certificates**

- Graphic Design

**Certificates**

- Graphic Design

**Associate in Applied Science**

- Graphic Design

**Associate in Fine Art**

- Fine Arts: Studio Art

**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: \_\_\_\_\_

**Focus**

These courses are the required focused courses in this program. They are the heart of the program. Some of the courses listed may have prerequisites (which are listed in the course description section of the catalog). Students also need to complete the courses listed in the WRAP section (some special certificate and certificate programs may not have WRAP courses listed). Therefore, students should consult advisors for assistance in planning course schedules.

**WRAP**

Kirtland Community College strives to prepare students with a solid general education background, which is called WRAP— Well Rounded Academic Program. Students pursuing a special certificate begin by focusing on courses that pertain specifically to the field of interest. General education courses will be taken as the student continues on to the certificate or associate degree level.

For more information, please contact the Art Department.

Joe Donna	989-275-5000, extension 226
Scott Rice	989-275-5000, extension 300

# GRAPHIC DESIGN

Special Certificate (SGRA0)

Minimum Credits: 19

## 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.

## Focus

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

## 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.

## Focus

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

## WRAP

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: 66**

## 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.

## Focus

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 <b>or</b> ART-26000	Digital Communications II <b>OR</b> Illustration II	3

Course	Title	Cr
ART-25000	Illustration I	3
ART-27545	DS-Computer Generated Images I	3
ART-27546 ART-27550	DS-Computer Generated Images II <b>OR</b> 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

## WRAP

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	6	<ul style="list-style-type: none"> <li>• ENG-10000 – Writing Lab (0-1) (if required)</li> <li>• COM-10000 – Written &amp; Oral Communication (3) <b>OR</b></li> <li style="padding-left: 20px;">*ENG-10403 – English Composition II <b>AND</b> SPE-10500 – Fund of Speech (3) <b>OR</b></li> <li style="padding-left: 20px;">*ENG-10403 – English Composition II <b>AND</b> SPE-11400 – Interpersonal Comm (3)</li> <li>• ENG-10303 – English Composition I (3)</li> </ul>
Humanities/Social Science	3	<ul style="list-style-type: none"> <li>• HUM-20500 – Individual &amp; Society (3) <b>OR</b></li> <li style="padding-left: 20px;">*Humanities Elective excluding ART (3) <b>AND</b> Social Science Elective (3)</li> </ul>
Life Skills	3	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3)</li> </ul>
Math/Natural	8	<ul style="list-style-type: none"> <li>• MTH-10100 – Finite Math or higher (4)</li> <li>• Science with a lab (4)</li> </ul>

**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

## 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.

## Focus

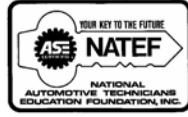
STUDIO ART Option					
ART-28000	Portfolio	3		Any ART Electives (recommendation: see Studio Art advisor for guidance)	15
CIS-21900	MacIntosh O.S. X	1	ART-----		

## WRAP

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3)*</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)*</li> <li>• ENG-10403 – English Composition II (3)*</li> <li>• SPE-10500 – Fund. of Speech (3)* <b>OR</b> SPE-11400 – Interpersonal Communication (3)*</li> </ul>
Humanities	9	<ul style="list-style-type: none"> <li>• Select 3 credits from Art, Music, or Theater.*</li> <li>• Select 3 credits from Journalism, Languages, or Literature.*</li> <li>• HIS Elective <b>OR</b>                ART-10000 – Art History I (3) <b>OR</b>                ART-10103 – Art History II (3)</li> </ul>
Social Science	9-10	<ul style="list-style-type: none"> <li>• POL-10100 – American Government (3)*</li> <li>• GEO-10000 – World Geography (4)* <b>OR</b>                POL-20000 – International Relations (3)* <b>OR</b>                POL-20100 – Comparative Government* (3)</li> <li>• SOC-10100 – Introduction to Sociology (3)* <b>OR</b>                PSY-10100 – Introduction to Psychology (3)*</li> </ul>
Math/Natural Science	12-14	<ul style="list-style-type: none"> <li>• MTH-12000 – Intermediate Algebra (4)* or higher (excluding MTH-20500 and MTH-20600)</li> <li>• Select two science courses with a lab from BIO, CHE, GEL, or PHY (8-10)*</li> </ul>

\* Courses that meet General Education Core Competencies

All Automotive programs are NATEF certified.



**Associate in Applied Science**

- Automotive Technology

**Certificate**

- Automotive Technology Master Certification

**Special Certificates**

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

**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: \_\_\_\_\_

**Focus**

These courses are the required focused courses in this program. They are the heart of the program. Some of the courses listed may have prerequisites (which are listed in the course description section of the catalog). Students also need to complete the courses listed in the WRAP section (some special certificate and certificate programs may not have WRAP courses listed). Therefore, students should consult advisors for assistance in planning course schedules.

**WRAP**

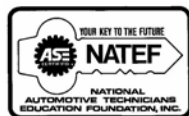
Kirtland Community College strives to prepare students with a solid general education background, which is called WRAP— Well Rounded Academic Program. Students pursuing a special certificate begin by focusing on courses that pertain specifically to the field of interest. General education courses will be taken as the student continues on to the certificate or associate degree level.

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

# AUTOMOTIVE TECHNOLOGY

Associate in Applied Science (DAUT0)

Minimum Credits: 71



## 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), and graduates of this program will be prepared for the Michigan Bureau of Automotive Regulation Technician Certification and the National Institute for Automotive Service Excellence (ASE) Technician Certification. 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.

Kirtland Community College has had an ongoing 2 + 2 transfer agreement with Ferris State University for students who want to pursue a bachelor's degree. Both Kirtland and Ferris are currently revising curricula. The expectation is that the agreement will remain in place. Any Automotive Technology major who plans to acquire a bachelor's degree after completion of the associate degree should contact his/her advisor during the first semester at Kirtland Community College.

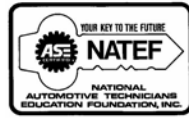
Course	Title	Cr
<b>Semester I - Fall</b>		
AUT-16302	Automotive Fundamentals	4
AUT-16401	Basic Electricity	3
AUT-17702	Automotive Braking Systems	5
MTH-10100	Finite Math or higher	4
ENG-10303	English Composition I	3
ENG-10000	Writing Lab (if required)	0-1
<b>Semester II - Winter</b>		
AUT-16201	Fuel Systems & Emission Control	4
AUT-16801	Automotive Electrical Systems	4
AUT-16100	Engine Fundamentals & Overhaul	4
PHY-10501	Physical Science	3
PHY-10502	Physical Science Lab	1

Course	Title	Cr
<b>Semester III - Fall</b>		
AUT-21800	Automatic Transmissions	4
AUT-26601	Engine Performance & Diagnostics	4
AUT-27000	Heating & Air Conditioning	3
AUT-26500	Steering, Suspension & Alignment	4
COM-10000	Written & Oral Communication	3
<b>Semester IV</b>		
AUT-23104	Automotive Internship	8
AUT-20404	Advanced Auto Service Management	3
AUT-27900	Manual Transmission/ Drivelines/ Axles	4
HUM-20500	The Individual & Society	3

# AUTOMOTIVE TECHNOLOGY MASTER CERTIFICATION

Certificate of Completion (CAUT1)

Minimum Credits: 53



## 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), and graduates will be prepared to take the Michigan State Certification and National Institute for Automotive Service Excellence (ASE) test. 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
<b>Semester I - Fall</b>		
AUT-16302	Automotive Fundamentals	4
AUT-16401	Basic Electricity	3
AUT-17702	Automotive Braking Systems	5
<b>Semester II – Winter</b>		
AUT-16201	Fuel Systems & Emission Control	4
AUT-16801	Automotive Electrical Systems	4
AUT-16100	Engine Fundamentals & Overhaul	4
AUT-20402	Intro to Auto Service Management	2

Course	Title	Cr
<b>Semester III - Fall</b>		
AUT-21800	Automatic Transmissions	4
AUT-26601	Engine Performance & Diagnostics	4
AUT-27000	Heating & Air Conditioning	3
AUT-26500	Steering, Suspension & Alignment	4
<b>Semester IV - Winter</b>		
AUT-27900	Manual Transmission/Drivelines/Axles	4
AUT-23104	Automotive Internship	8

# AUTOMOTIVE CHASSIS SPECIALIST

Special Certificate (SAUT0)

Minimum Credits: 23



## 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). Successful completion of this program will qualify the student for the Michigan State Certification and National Institute for Automotive Service Excellence (ASE) testing and certification. 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.

## Focus

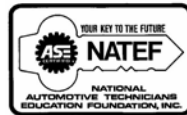
Course	Title	Cr
AUT-16100	Engine Fundamentals & Overhaul	4
AUT-16302	Automotive Fundamentals	4
AUT-26500	Steering, Suspension & Alignment	4

Course	Title	Cr
AUT-17702	Automotive Braking Systems	5
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



## 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). Successful completion of this program will qualify the student for the Michigan State and National Institute for Automotive Service Excellence (ASE) testing and 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.

## Focus

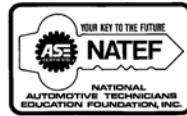
Course	Title	Cr
AUT-16201	Fuel Systems & Emission Controls	4
AUT-16302	Automotive Fundamentals	4
AUT-16401	Basic Electricity	3
AUT-16801	Automotive Electrical Systems	4

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: 18



## Introduction

Kirtland's Automotive General certificate is designed to introduce the student to automotive technology. The student will have the flexibility to choose a specialty area and, upon completion, be qualified to take certification tests 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.

## Focus

Course	Title	Cr
AUT-16302	Automotive Fundamentals	4
AUT-23104	Automotive Internship	8

Course	Title	Cr
AUT-	At least six credits from below	

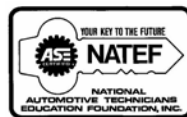
and six or more credit hours from the following list:

AUT-16100	Engine Fundamentals & Overhaul	4	AUT-27000	Heating & Air Conditioning	3
AUT-16201	Fuel Systems & Emission Control	4	AUT-17702	Automotive Braking Systems	5
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: 23



## 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). Successful completion of this program will qualify the student for the Michigan State and National Institute for Automotive Service Excellence (ASE) testing and 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.

## Focus

Course	Title	Cr
AUT-16100	Engine Fundamentals & Overhaul	4
AUT-16302	Automotive Fundamentals	4
AUT-17702	Automotive Braking Systems	5

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**

- Entrepreneurship
- General Business

**Associate in Applied Science**

- Business Management

**Associate**

- Business Administration

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**PARTNERSHIP PROGRAMS**

**Bachelor of Business Administration**

- Management – Northwood University

**Bachelor of Science**

- Applied Management – Franklin University
- Business Administration – Franklin University
- Business Administration – Management – Lake Superior State University
- Business Administration – Marketing – Lake Superior 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: \_\_\_\_\_

**Focus**

These courses are the required focused courses in this program. They are the heart of the program. Some of the courses listed may have prerequisites (which are listed in the course description section of the catalog). Students also need to complete the courses listed in the WRAP section (some special certificate and certificate programs may not have WRAP courses listed). Therefore, students should consult advisors for assistance in planning course schedules.

**WRAP**

Kirtland Community College strives to prepare students with a solid general education background, which is called WRAP— Well Rounded Academic Program. Students pursuing a special certificate begin by focusing on courses that pertain specifically to the field of interest. General education courses will be taken as the student continues on to the certificate or associate degree level.

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



# ENTREPRENEURSHIP

Certificate of Completion (CENT0)

**Minimum Credits: 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.

## Focus

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**

## 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.

## Focus

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

Course	Title	Cr
OIS-10401/2/3	Keyboarding I-A/B/C* <b>OR</b>	
OIS-11401/2/3	Keyboarding II-A/B/C <b>OR</b>	
---	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

## WRAP

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	6-7	<ul style="list-style-type: none"> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> <li>• ENG-10403 – English Composition II (3)</li> </ul>
Math/Natural Science	3-4	<ul style="list-style-type: none"> <li>• MTH-12000 – Intermediate Algebra (4) <b>OR</b> OIS-11201 – Business Calculations (3)</li> </ul>

**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: 62

## 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.

## Focus

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 BUS-	Keyboarding I-A/B/C <b>OR</b> Business elective	3
OIS-10500	Business Correspondence	3
--- ---	One to four credits from below	1-4

### and one to four credit hours from the following list:

ACC-12500	Computer Accounting/QuickBooks	4	CIS-22702	Microsoft Excel	1
ART-27545	DS-Computer Generated Images I	3	CIS-23501	Database Design	3
BUS-201--	Internship in Business & Marketing	3-9	CIS-26000	Intro to Computer Networking	3
BUS-20200	Grant Writing	3	CIS-26100	Internet	1
CIS-11700	Visual Basic I	3	CIS-26200	Web Pages	1
CIS-17001	Microsoft Office	3	CIS-26300	Advanced Web Pages	1
CIS-17102	PowerPoint	1	CIS-26400	JavaScript	2
CIS-17200	Publisher	2	MKT-11000	Principles of Selling	3
CIS-17300	Microsoft Access	1	MKT-20100	Principles of Retailing	3
CIS-22302	Windows XP	1	MKT-20200	Internet Marketing	3
CIS-22500	Spreadsheets	3	OIS-18201/2/3	Word Processing I-Word-A, B, & C	3

## WRAP

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	6-10	<ul style="list-style-type: none"> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> <li>• COM-10000 – Written &amp; Oral Communication (3) <b>OR</b>                ENG-10403, English Comp II (3) <b>AND</b> SPE-10500, Fund of Speech (3) <b>OR</b>                ENG-10403, English Comp II (3) <b>AND</b> SPE-11400, Into to Interper/Public (3)</li> </ul>
Humanities/Social Science	6	<ul style="list-style-type: none"> <li>• POL-10100 – American Government (3) <b>OR</b>                HUM-20500 – The Individual and Society (3)</li> <li>• PSY-10100 – Introduction to Psychology (3)</li> </ul>
Life Skills	3	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3)</li> </ul>
Math/Natural Science	8	<ul style="list-style-type: none"> <li>• MTH-12000 (4) – Intermediate Algebra</li> <li>• Any science course with a lab (4)</li> </ul>

# ASSOCIATE IN BUSINESS ADMINISTRATION

(DABA1)

**Minimum Credits: 60**

## 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.

## Focus

Course	Title	Cr	Course	Title	Cr
ACC-12100	Accounting Principles I	4	ACC-12200	Accounting Principles II	4

**and 5 - 8 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-20300	Internet Marketing	3
BUS-21500	Legal Environment of Business	3	MKT-20400	Advertising	3
BUS-24000	Financial Management	3	MKT-21000	Market Research	3

## WRAP

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3)*</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)*</li> <li>• ENG-10403 – English Composition II (3)*</li> <li>• SPE-10500 – Fund. of Speech (3)* <b>OR</b> SPE-11400 – Interpersonal Communication (3)*</li> </ul>
Humanities	8-9	<ul style="list-style-type: none"> <li>• Select 2-3 credits from Art, Music, or Theater.*</li> <li>• Select 3 credits from Journalism, Languages, or Literature.*</li> <li>• Any HIS <b>OR</b> PHL Elective (3)*</li> </ul>
Social Science	12	<ul style="list-style-type: none"> <li>• POL-10100 –American Gov't (3)* <b>OR</b> POL -10500 –American Gov't w/Humanities* (3)</li> <li>• Any ANT, Anthropology <b>OR</b> SOC, Sociology, <b>OR</b> PSY, Psychology Elective (3)*</li> <li>• ECO-20100 – Principles of Economics (Macroeconomics) (3)</li> <li>• ECO-20200 – Principles of Economics (Microeconomics) (3)</li> </ul>
Math & Natural Science	12-13	<ul style="list-style-type: none"> <li>• MTH-12100 – College Algebra with Trigonometry (4)* <b>or</b> higher</li> <li>• MTH-20600 – Statistics (4)</li> <li>• Any science course with a lab (4)*</li> </ul>

## MANAGEMENT

Bachelor of Business Administration

## PARTNERSHIP PROGRAM

### Northwood University

Rachel Rodriguez, 989-671-9405

E-Mail: [rachel@northwood.edu](mailto:rachel@northwood.edu)

### Kirtland Community College

Judith Grenkowitz, 275-5000, extension 219

E-Mail: [grenkowj@kirtland.edu](mailto:grenkowj@kirtland.edu)

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.

Students should contact those listed for specific program information.

## APPLIED MANAGEMENT

Bachelor of Science

## PARTNERSHIP PROGRAM

### Franklin University

Bob Morris

1-888-341-6237 or 614-651-4471

[morrisb@franklin.edu](mailto:morrisb@franklin.edu)

### Kirtland Community College

Judith Grenkowitz

989-275-5000, extension 219

[grenkowj@kirtland.edu](mailto:grenkowj@kirtland.edu)

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.

Students should contact those listed for specific program information.

## **BUSINESS ADMINISTRATION**

Bachelor of Science

## **PARTNERSHIP PROGRAM**

**Franklin University**  
Bob Morris  
1-888-341-6237 or 614-651-4471  
[morrisb@franklin.edu](mailto:morrisb@franklin.edu)

**Kirtland Community College**  
Judith Grenkowitz  
989-275-5000, extension 219  
[grenkowj@kirtland.edu](mailto:grenkowj@kirtland.edu)

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.

Students should contact those listed for specific program information.

## **BUSINESS ADMINISTRATION – MANAGEMENT**

Bachelor of Science

## **PARTNERSHIP PROGRAM**

**Lake Superior State University**  
John Erkkila, 888-800-5778, extension 2108  
E-Mail: [jerkkila@gw.lssu.edu](mailto:jerkkila@gw.lssu.edu)

**Kirtland Community College**  
Judith Grenkowitz, 275-5000, extension 219  
E-Mail: [grenkowj@kirtland.edu](mailto:grenkowj@kirtland.edu)

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

Students should contact those listed for specific program information.

# **BUSINESS ADMINISTRATION – MARKETING**

# **PARTNERSHIP PROGRAM**

Bachelor of Science

## **Lake Superior State University**

John Erkkila, 888-800-5778, extension 2108

E-Mail: [jerkkila@gw.lssu.edu](mailto:jerkkila@gw.lssu.edu)

## **Kirtland Community College**

Judith Grenkowitz, 275-5000, extension 219

E-Mail: [grenkowj@kirtland.edu](mailto:grenkowj@kirtland.edu)

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

Students should contact those listed for specific program information.

**Certificates**

- Computer Networking
- Computer Technician
- Web Master Level
- Web Master Level II

**Associate**

- Associate in Computer Information Systems
- Associate in Computer Science

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

Lisa Balbach ([balbachl@kirtland.edu](mailto:balbachl@kirtland.edu))

989-275-5000, extension 414

Gene Frazier ([frazierg@kirtland.edu](mailto:frazierg@kirtland.edu))

989-275-5000, extension 293

# COMPUTER NETWORKING

Certificate of Completion (CCNT0)

Minimum Credits: 33

## Introduction

Kirtland's program in Computer Networking is designed to provide a comprehensive background of training necessary for success in jobs that require computer networking skills. The program is intended to lay a foundation for a large variety of entry-level positions in the networking field. Emphasis is placed on both theoretical and hands-on applications. Students may also elect to pursue the Associate in Applied Science: Technology Management or the Associate in Applied Science: Contracting with Business & Industry degrees at any point in this program.

## Required Courses

Course	Title	Cr
CIS-10500	Introduction to Computers	3
CIS-11700	Visual Basic I	3
CIS-19600	Hardware Certification	3
CIS-19700	OS Certification	3
CIS-26000	Intro to Computer Networking	3

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
CIS-26500	Networking II	3
CBI-101- -	On or Off-Campus Training	8

### And four credit hours from the following list:

(The courses outlined below are the recommended CIS electives. Students need to take four elective credits to meet certificate requirements)

CIS-11800	Visual Basic II	3
CIS-22400	UNIX	2

CIS-23501	Database Design	3
ENG-10303	English Composition I w/Computers	3
MTH-12000	Intermediate Algebra	4

# COMPUTER TECHNICIAN

Certificate of Completion (CTEC0)

Minimum Credits: 33

## 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 or the Associate in Applied Science: Contracting with Business and Industry degrees 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

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
CIS-27001	Programming I	3
CBI-101- -	On or Off-Campus Training	8

### And five credit hours from the following list:

(The courses outlined below are the recommended CIS electives. Students need to take five elective credits to meet certificate requirements)

CIS-11700	Visual Basic I	3
CIS-17001	Microsoft Office	3
CIS-22500	Spreadsheets	3
CIS-23501	Database Design	3

CIS-26400	JavaScript	2
CIS-27101	Programming II	4
MTH-12000	Intermediate Algebra	4
OIS-10100	Basic Keyboarding	1



# WEBMASTER LEVEL I

Certificate of Completion (CWBM1)

Minimum Credits: 33

## Introduction

Kirtland Community College's Web Master Level I certificate is designed to provide a background of training necessary for entry-level web programming. 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 or the Associate in Applied Science: Contracting with Business and Industry degrees at any point in this program.

## Required Courses

Course	Title	Cr	Course	Title	Cr
ART-10500	Introduction to Design	3	CIS-21000 or CIS-26100 & CIS-26200 & CIS-26300	Internet & Web Page Development or Internet and Web Pages and Advanced Web Pages	3
ART-19000	Digital Communications I	3			
ART-27545	Computer Generated Images I	3			
CBI-101- -	On or Off-Campus Training	8			
CIS-11700	Visual Basic I	3	CIS-26400	JavaScript	2
ENG-10403	English Composition II w/Computers	3	CIS-27001	Programming I	3

### And two credit hours from the following list:

(The courses outlined below are the recommended CIS electives. Students need to take two elective credits to meet certificate requirements)

CAR-10300	Career Development Skills	1	CIS-22702	Microsoft Excel	1
CIS-11800	Visual Basic II	3	CIS-23501	Database Design	3
CIS17001	Microsoft Office	3	CIS-26000	Introduction to Computer Networking	3
CIS-17101	Microsoft PowerPoint	1	CIS-27101	Programming II	4
CIS-17200	Publisher	2	CIS-27200	Web Programming	3
CIS-22500	Spreadsheets	3	MTH-12000	Intermediate Algebra	4
			OIS-10100	Basic Keyboarding	1

# WEBMASTER LEVEL II

Certificate of Completion (CWBM2)

Minimum Credits: 33

## Introduction

Kirtland Community College's Web Master Level II certificate is designed to provide a comprehensive background of training necessary for a wide variety of web programming jobs. Students will expand and build upon skills acquired in the Web Master Level I certificate. Students will learn more about dynamic web pages (both server-side and client side programming), in addition to hardware requirements and software environments. Students may also elect to pursue the Associate in Applied Science: Technology Management or the Associate in Applied Science: Contracting with Business and Industry degrees at any point in this program.

## Required Courses

Course	Title	Cr	Course	Title	Cr
CIS-19600	Hardware Certification	3	CIS-26500	Networking II	3
CIS-22400	UNIX	2	CIS-27101	Programming II	4
CIS-23501	Database Design	3	CIS-27201	Web Programming	3
CIS-26000	Intro to Computer Networking	3	CBI-101- -	On or Off-Campus Training	8

### And four credit hours from the following list:

(The courses outlined below are the recommended CIS electives. Students need to take four elective credits to meet certificate requirements)

ART-27546	Computer Generated Images II	3	CIS-19700	OS Certification	3
CIS-11800	Visual Basic II	3	CIS-22500	Spreadsheets	3
CIS17001	Microsoft Office	3	CIS-22702	Microsoft Excel	1
CIS-17101	Microsoft PowerPoint	1	MTH-12000	Intermediate Algebra	4
CIS-17200	Publisher	2	OIS-10100	Basic Keyboarding	1

# ASSOCIATE IN COMPUTERS

Computer Science (DACP0)

Minimum Credits: 60

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

Winter Semester	
ENG-10403 English Composition II w/Computers	3
BIO-10100 <b>or</b> BIO-20100, <b>or</b> BIO-20200 <b>or</b> BIO-21000, <b>or</b> BIO-213 00 (See CIS advisor for recommended course)	4
SPE10500 Fundamentals of Speech <b>or</b> SPE-11400 - Interpersonal Communications	3
MTH-13000 <b>or</b> higher <b>or</b> elective course if math sequence is complete (excluding MTH-205 & MTH-206)	2-4
PSY-10100 <b>or</b> SOC-10100	3

## Year 2:

Fall Semester	
CIS-27001 Programming I	3
POL-10100 American Government	3
Humanities Elective – Language <b>or</b> Literature (see CIS advisor for course list)	3
GEO-100, POL-200, <b>or</b> POL-201	3-4
MTH-14000 <b>or</b> higher <b>or</b> elective course if math sequence is complete (excluding MTH-205 & MTH-206)	3-4

Winter Semester	
CIS-27101 Programming II	4
HIS-105, 106, 201, 202, <b>or</b> 203	
Humanities Elective – ART, MUS, <b>or</b> THE	2-3
Elective course (listed below)	2-3
MTH-22000 <b>or</b> higher <b>or</b> elective course if math sequence is complete (excluding MTH-205 & MTH-206)	3-4

## Electives:

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**

## 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	
ENG-10303 English Composition I w/computers	3
ENG-10000 Writing Lab (if required)	0-1
CIS-10500 Introduction to Computers	3
Chemistry w/lab	4-5
MTH-12000 Intermediate Algebra <b>or</b> higher <b>or</b> elective course if math sequence is complete (excluding MTH-205 & MTH-206)	4

Winter Semester	
ENG-10403 English Composition II w/computers	3
BIO-10100 <b>or</b> BIO-20100, <b>or</b> BIO-20200 <b>or</b> BIO-21000, <b>or</b> BIO-213 00	4
SPE10500 Fundamentals of Speech <b>or</b> SPE-11400 - Interpersonal Communications	3
MTH-13000 College Algebra <b>or</b> elective course if math sequence is complete (excluding MTH-205 & MTH-206)	2-4
PSY-10100 <b>or</b> SOC-10100	3

## Year 2:

Fall Semester	
CIS-27001 Programming I	3
POL-10100 American Government	3
Humanities Elective – Language <b>or</b> Literature (see CIS advisor for course list)	3
GEO-100, POL-200, <b>or</b> POL-201	3-4
Elective course (listed below)	3-4

Winter Semester	
CIS-27101 Programming II	4
HIS-105, 106, 201, 202, <b>or</b> 203	3
Humanities Elective – ART, MUS, <b>or</b> THE	2-3
Elective course (listed below)	2-3
Elective course (listed below)	3-4

## Electives:

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

# COMPUTER INFORMATION SYSTEMS

PARTNERSHIP PROGRAM

Bachelor of Science

**Ferris State University**  
(231) 591-2434  
[CISD@ferris.edu](mailto:CISD@ferris.edu)

**Kirtland Community College**  
Lisa Balbach, [balbachl@kirtland.edu](mailto:balbachl@kirtland.edu)  
989-275-5000, extension 414

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](http://services.kirtland.edu/cis/Transfer/Ferris_CIS_transfer.htm). Students should contact those listed for specific program information.

**Saginaw Valley State University**  
Randall Hock, [hock@svsu.edu](mailto:hock@svsu.edu)  
989-964-4343

**Kirtland Community College**  
Lisa Balbach, [balbachl@kirtland.edu](mailto:balbachl@kirtland.edu)  
989-275-5000, extension 414

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](http://services.kirtland.edu/cis/Articulation/SVSU_CIS_Articulation.htm)

# COMPUTER SCIENCE

PARTNERSHIP PROGRAM

Bachelor of Science

**Central Michigan University**  
Marcie Otteman, [ottemlmm@cmich.edu](mailto:ottemlmm@cmich.edu) or [Marcie.M.Otteman@cmich.edu](mailto:Marcie.M.Otteman@cmich.edu)  
989-774-3076

**Kirtland Community College**  
Lisa Balbach, [balbachl@kirtland.edu](mailto:balbachl@kirtland.edu)  
989-275-5000, extension 414

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>

**Franklin University**  
Bob Morris, [morrisb@franklin.edu](mailto:morrisb@franklin.edu)  
1-888-341-6237 or 614-651-4471

**Kirtland Community College**  
Lisa Balbach, [balbachl@kirtland.edu](mailto:balbachl@kirtland.edu)  
989-275-5000, extension 414

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](http://services.kirtland.edu/cis/Articulation/Franklin_CS_Articulation.htm). Students should contact those listed for specific program information.

(Continued on next page)

**Saginaw Valley State University**  
Randall Hock, [hock@svsu.edu](mailto:hock@svsu.edu)  
989-964-4343

**Kirtland Community College**  
Lisa Balbach, [balbachl@kirtland.edu](mailto:balbachl@kirtland.edu)  
989-275-5000, extension 414

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](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

PARTNERSHIP PROGRAM

Bachelor of Science

**Franklin University**  
Bob Morris, [morrisb@franklin.edu](mailto:morrisb@franklin.edu)  
1-888-341-6237 or 614-651-4471

**Kirtland Community College**  
Lisa Balbach, [balbachl@kirtland.edu](mailto:balbachl@kirtland.edu)  
989-275-5000, extension 414

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](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/>.

## MANAGEMENT INFORMATION SCIENCE (MIS)

PARTNERSHIP PROGRAM

Bachelor of Science

**Franklin University**  
Bob Morris, [morrisb@franklin.edu](mailto:morrisb@franklin.edu)  
1-888-341-6237 or 614-651-4471

**Kirtland Community College**  
Lisa Balbach, [balbachl@kirtland.edu](mailto:balbachl@kirtland.edu)  
989-275-5000, extension 414

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](http://services.kirtland.edu/cis/Articulation/Franklin_MIS_Articulation.htm). Students should contact those listed for specific program information.

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](mailto:mtec.kirtland.edu)

**Certificates**

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

**Associate in Applied Science**

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

**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.*

- |   |  |
|---|--|
| <input type="checkbox"/> ENG-10000 Writing Lab (if required)<br><input type="checkbox"/> English: _____ | <input type="checkbox"/> Mathematics: _____<br><input type="checkbox"/> Reading: _____ |
|---|--|

**Focus**

These courses are the required focused courses in this program. They are the heart of the program. Some of the courses listed may have prerequisites (which are listed in the course description section of the catalog). Students also need to complete the courses listed in the WRAP section (some special certificate and certificate programs may not have WRAP courses listed). Therefore, students should consult advisors for assistance in planning course schedules.

**WRAP**

Kirtland Community College strives to prepare students with a solid general education background, which is called WRAP— Well Rounded Academic Program. Students pursuing a special certificate begin by focusing on courses that pertain specifically to the field of interest. General education courses will be taken as the student continues on to the certificate or associate degree level.

**Prerequisites:**

WorkKeys<sup>R</sup> is used to assess the core competency levels of reading, mathematics, locating information, and writing. Students are required to take WorkKeys<sup>R</sup> 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](mailto:mtec.kirtland.edu)

# CARPENTRY

Certificate of Completion (CCPT0)

Minimum Credits: 31

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

## Focus

Course	Title
<b>Core Courses</b>	
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
<b>Carpentry Level I</b>	
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
<b>Carpentry Level II</b>	
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
<b>Carpentry Level III</b>	
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
<b>Carpentry Level IV</b>	
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	ELT – HVC – IND – MPT - WLD (1.1 cr)

# CARPENTRY

Associate in Applied Science (DCPT0)

Minimum Credits: 60

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.

## Focus

Course	Title	Cr
EDT-11000	Detailing with AutoCAD	3
Electives	ELT – HVC – IND – MPT - WLD	1-2

Course	Title	Cr
EDT-14000 <b>OR</b> EDT-13000	Architectural Drawing/CAD Fundamentals of MasterCAM	4 3

## WRAP

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	6-7	<ul style="list-style-type: none"><li>• COM-10000 – Written &amp; Oral Communication (3)</li><li>• ENG-10000 – Writing Lab (1) (if required)</li><li>• ENG-10303 – English Composition I (3)</li></ul>
Humanities/Social Science	3	<ul style="list-style-type: none"><li>• HUM-20500 – Individual &amp; Society (3) <b>OR</b> POL-10100 – American Gov't (3)</li></ul>
Life Skills	4	<ul style="list-style-type: none"><li>• CAR 10300 – Career Development Skills (1)</li><li>• CIS-10500 – Introduction to Computers (3)</li></ul>
Math/Natural Science	8	<ul style="list-style-type: none"><li>• MTH-10100 – Finite Math (4) or higher excluding MTH-20500 or MTH-20600</li><li>• Any science elective (4) with lab</li></ul>

# ELECTRICAL TECHNOLOGY

Certificate of Completion (CELC0)

Minimum Credits: 31

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

## Focus

Course	Title
<b>Core Courses</b>	
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
<b>Electrical Technology Level I</b>	
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
<b>Electrical Technology Level II</b>	
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
<b>Electrical Technology Level III</b>	
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
<b>Electrical Technology Level IV</b>	
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	CPT – HVC – IND – MPT – WLD (3.2 cr)

# ELECTRICAL TECHNOLOGY

Associate in Applied Science (DELCO)

Minimum Credits: 60

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.

**Focus:** In addition to requirements for the certificate, students must complete the Focus and WRAP requirements and any electives necessary.

Course	Title	Cr
EDT-11000	Detailing with AutoCAD	3
Electives	CPT – HVC – IND – MPT – WLD	1-2

Course	Title	Cr
EDT-14000 <b>OR</b> EDT-13000	Architectural Drawing/CAD Fundamentals of MasterCAM	4 3

## WRAP

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	6-7	<ul style="list-style-type: none"> <li>• COM-10000 – Written &amp; Oral Communication (3)</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> </ul>
Humanities/Social Science	3	<ul style="list-style-type: none"> <li>• HUM-20500 – Individual &amp; Society (3) <b>OR</b> POL-10100 – American Government (3)</li> </ul>
Life Skills	4	<ul style="list-style-type: none"> <li>• CAR 10300 – Career Development Skills (1)</li> <li>• CIS-10500 – Introduction to Computers (3)</li> </ul>
Math/Natural Science	8	<ul style="list-style-type: none"> <li>• MTH-10100 – Finite Math (4) or higher excluding MTH-20500 or MTH-20600</li> <li>• Any science elective with lab (4)</li> </ul>



# HEATING/VENTILATION/AC/REFRIGERATION

Certificate of Completion (CHVC0)

**Minimum Credits: 31**

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

**Focus**

Course	Title
<b>Core Courses</b>	
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
<b>HVAC Level I</b>	
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
<b>HVAC Level II</b>	
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
<b>HVAC Level III</b>	
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
<b>HVAC Level IV</b>	
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	CPT – ELT – IND – MPT – WLD (4.9)

# HEATING/VENTILATION/AC/REFRIGERATION

Associate in Applied Science (DHCV0)

**Minimum Credits: 60**

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.

**Focus:** In addition to requirements for the certificate, students must complete the Focus and WRAP requirements and any electives necessary.

Course	Title	Cr
EDT-11000	Detailing with AutoCAD	3
Electives	CPT – ELT – IND – MPT – WLD	1-2

Course	Title	Cr
EDT-14000 <b>OR</b>	Architectural Drawing/CAD	4
EDT-13000	Fundamentals of MasterCAM	3

**WRAP**

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	6-7	<ul style="list-style-type: none"> <li>• COM-10000 – Written &amp; Oral Communication (3)</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> </ul>
Humanities/Social Science	3	<ul style="list-style-type: none"> <li>• HUM-20500 – Individual &amp; Society (3) <b>OR</b> POL-10100 – American Gov't (3)</li> </ul>
Life Skills	4	<ul style="list-style-type: none"> <li>• CAR 10300 – Career Development Skills (1)</li> <li>• CIS-10500 – Introduction to Computers (3)</li> </ul>
Math/Natural Science	8	<ul style="list-style-type: none"> <li>• MTH-10100 – Finite Math (4) or higher excluding MTH-20500 or MTH-20600</li> <li>• Any science elective (4) with lab</li> </ul>

**Special Certificates**

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

**Certificates**

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

**Associate in Applied Science**

- Salon Management – Cosmetology
- Salon Management – Cosmetology Instructor
- Salon Management – Nail Technician
- Salon Management – Skin Care Technician

**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)
- English: \_\_\_\_\_

- Mathematics: \_\_\_\_\_
- Reading: \_\_\_\_\_

**Focus**

These courses are the required focused courses in this program. They are the heart of the program. Some of the courses listed may have prerequisites (which are listed in the course description section of the catalog). Students also need to complete the courses listed in the WRAP section (some special certificate and certificate programs may not have WRAP courses listed). Therefore, students should consult advisors for assistance in planning course schedules.

**WRAP**

Kirtland Community College strives to prepare students with a solid general education background, which is called WRAP— Well Rounded Academic Program. Students pursuing a special certificate begin by focusing on courses that pertain specifically to the field of interest. General education courses will be taken as the student continues on to the certificate or associate degree level.

For more information, please contact the Cosmetology Department.  
 Shannon Hasty 989-275-5000, extension 274

## LIMITED SPECIALIST - MANICURE INSTRUCTOR

Special Certificate (SMIN0)

Minimum Credits: 15

**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.

**We welcome high school students into cosmetology programs.**

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

Special Certificate (SNHC0)

Minimum Credits: 15

**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.

**We welcome high school students into cosmetology programs.**

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

**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. **We welcome high school students into cosmetology programs.**

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

Special Certificate (SSCI0)

Minimum Credits: 15

**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. **We welcome high school students into cosmetology programs.**

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**

## 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

# SALON MANAGEMENT - COSMETOLOGY

Associate in Applied Science (DSMN0)

**Minimum Credits: 69**

## Introduction

Kirtland's associate degree program in Salon Management - 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.**

## Focus

Course	Title	Cr
ACC-12500	Computer Accounting/QuickBooks	4
BUS-10100	Introduction to Business	3
COS-17500	Salon Management	1

Course	Title	Cr
	Kirtland Certificate – Cosmetology <b>OR</b>	
	Current Michigan Cosmetology License	40
ART- - - -	Any ART Elective	0-3

## WRAP

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	6-7	<ul style="list-style-type: none"> <li>• COM-10000 – Written &amp; Oral Communication (3)</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> </ul>
Humanities/Social Science	3	<ul style="list-style-type: none"> <li>• HUM-20500 – The Individual &amp; Society (3)</li> </ul>
Life Skills	4	<ul style="list-style-type: none"> <li>• CAR-10300 – Career Development Skills (1)</li> <li>• CIS-10500 – Introduction to Computers (3)</li> </ul>
Math/Natural Science	8	<ul style="list-style-type: none"> <li>• MTH-10100 – Finite Math (4) or higher (excluding MTH-20500 or MTH-20600)</li> <li>• PHY-10501 – Physical Science (3) <b>AND</b> PHY-10502 – Lab (1)</li> </ul>

# COSMETOLOGY INSTRUCTOR

Certificate of Completion (CCIN1)

**Minimum Credits: 55**

## 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 <b>OR</b>		
Current State of Michigan Cosmetology License		40

# SALON MANAGEMENT – COSMETOLOGY INSTRUCTOR

Associate in Applied Science (DSMN2)

**Minimum Credits: 84**

## Introduction

Kirtland's associate degree program in Salon Management - Cosmetology Instructor is designed to provide specialized instruction in practical application, communication skills, and general knowledge for employment as a cosmetology instructor. This program prepares students to successfully pass the State of Michigan Exam for Cosmetology Instructors. Job placement in this program is excellent. Students must also submit a copy of a current cosmetology instructor license prior to completing this program. State of Michigan licensure exam may be taken after 500 contact hours.

**We welcome high school students into cosmetology programs.**

## Prerequisite

Students must submit a copy of a current cosmetology license prior to beginning the courses.

## Focus

Course	Title	Cr
ACC-12500	Computer Accounting/QuickBooks	4
BUS-10100	Introduction to Business	3
COS-17500	Salon Management	1

Course	Title	Cr
Kirtland Certificate – Cosmetology Instructor <b>OR</b>		
Current Michigan Cosmetology Instructor License		55
ART- - - -	Any ART Elective	0-3

## WRAP

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	6-7	<ul style="list-style-type: none"> <li>• COM-10000 – Written &amp; Oral Communication (3)</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> </ul>
Humanities/Social Science	3	<ul style="list-style-type: none"> <li>• HUM-20500 – The Individual &amp; Society (3)</li> </ul>
Life Skills	4	<ul style="list-style-type: none"> <li>• CAR-10300 – Career Development Skills (1)</li> <li>• CIS-10500 – Introduction to Computers (3)</li> </ul>
Math/Natural Science	8	<ul style="list-style-type: none"> <li>• MTH-10100 – Finite Math (4) or higher (excluding MTH-20500 or MTH-20600)</li> <li>• PHY-10501 – Physical Science (3) <b>AND</b> PHY-10502 – Lab (1)</li> </ul>

# NAIL TECHNICIAN

Certificate of Completion (CNTC0)

**Minimum Credits: 34**

**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.**

**Focus**

Course	Title	Cr
ACC-12500	Computer 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
OIS-10500	Business Correspondence	3

**WRAP**

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	6-7	<ul style="list-style-type: none"> <li>• COM-10000 – Written &amp; Oral Communication (3)</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> </ul>
Life Skills	1	• CAR-10300 – Career Development Skills (1)
Math/Natural Science	4	• MTH-10100 – Finite Math (4) or higher (excluding MTH-20500 or MTH-20600)

# SALON MANAGEMENT – NAIL TECHNICIAN

Associate in Applied Science (DSMN1)

**Minimum Credits: 60**

**Introduction:** Kirtland's associate degree program in Salon Management: Nail Technician is designed to provide specialized instruction in practical application, communication skills, and general knowledge for employment as a licensed nail technician. This program prepares students to successfully pass the Michigan State Board Exam. Job placement in this program is excellent. Students must submit a copy of a current nail technician 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.**

**Focus**

Course	Title	Cr
ACC-12500	Computer Accounting/QuickBooks	4
BUS-10100	Introduction to Business	3
COS-17500	Salon Management	1

Course	Title	Cr
Kirtland Certificate – Nail Technician <b>OR</b>		
Current Michigan Nail Technician License		34
OIS-10500	Business Correspondence	3

**and 13 credit hours from the following list:**

ALH-12401	Lifetime Wellness & Nutrition	2	MKT-20400	Advertising	3
ART-10600	Fundamentals of Drawing I	3	PSY-10100	Introduction to Psychology	3
ART-10800	Ceramics I	3	SPE-10500	Fundamentals of Speech	3
MKT-11000	Principles of Selling	3	THE-21000	Theatre Makeup	3
MKT-20100	Principles of Retailing	3			

**WRAP**

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	6-7	<ul style="list-style-type: none"> <li>• COM-10000 – Written &amp; Oral Communication (3)</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I</li> </ul>
Humanities/Social Science	3	• HUM-20500 – The Individual & Society (3)
Life Skills	4	<ul style="list-style-type: none"> <li>• CAR-10300 – Career Development Skills (1)</li> <li>• CIS-10500 – Introduction to Computers (3)</li> </ul>
Math/Natural Science	8	<ul style="list-style-type: none"> <li>• MTH-10100 – Finite Math (4) or higher (excluding MTH-20500 or MTH-20600)</li> <li>• PHY-10501 – Physical Science (3) <b>AND</b> PHY-10502 – Lab (1)</li> </ul>

# SKIN CARE TECHNICIAN

Certificate of Completion (CSCT0)

Minimum Credits: 34

**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.**

## Focus

Course	Title	Cr	Course	Title	Cr
ACC-12500	Computer Accounting/QuickBooks	4	COS-14500	Skin Care V	2.5
COS-14100	Skin Care I	2.5	COS-14600	Skin Care VI	2.5
COS-14200	Skin Care II	2.5	COS-17500	Salon Management	1
COS-14300	Skin Care III	2.5	OIS-10500	Business Correspondence	3
COS-14400	Skin Care IV	2.5			

## WRAP

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	6-7	<ul style="list-style-type: none"> <li>• COM-10000 – Written &amp; Oral Communication (3)</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I</li> </ul>
Life Skills	1	• CAR-10300 – Career Development Skills (1)
Math/Natural Science	4	• MTH-10100 – Finite Math (4) or higher (excluding MTH-20500 or MTH-20600)

# SALON MANAGEMENT – SKIN CARE TECHNICIAN

Associate in Applied Science (DSMN3)

Minimum Credits: 61

**Introduction:** Kirtland's associate degree program in Salon Management: 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. (832 clock hours) Job placement in this program is excellent. Students must submit a copy of a current skin care license prior to completing this program.

**We welcome high school students into cosmetology programs.**

## Focus

Course	Title	Cr	Course	Title	Cr
ACC-12500	Computer Accounting/QuickBooks	4	Kirtland Certificate – Skin Care Technician <b>OR</b>		
COS-17500	Salon Management	1	Current Michigan Skin Care Technician License		
OIS-10500	Business Correspondence	3	---	17 credit hours from below	17

**and 17 credit hours from the following list:**

ALH-12401	Lifetime Wellness & Nutrition	2	MKT-20400	Advertising	3
ART-10600	Fundamentals of Drawing I	3	PSY-10100	Introduction to Psychology	3
ART-10800	Ceramics I	3	SPE-10500	Fundamentals of Speech	3
MKT-11000	Principles of Selling	3	THE-21000	Theatre Makeup	3
MKT-20100	Principles of Retailing	3			

## WRAP

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	6-7	<ul style="list-style-type: none"> <li>• COM-10000 – Written &amp; Oral Communication (3)</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I</li> </ul>
Humanities/Social Science	3	• HUM-20500 – The Individual & Society (3)
Life Skills	4	<ul style="list-style-type: none"> <li>• CAR-10300 – Career Development Skills (1)</li> <li>• CIS-10500 – Introduction to Computers (3)</li> </ul>
Math/Natural Science	8	<ul style="list-style-type: none"> <li>• MTH-10100 – Finite Math (4) or higher (excluding MTH-20500 or MTH-20600)</li> <li>• PHY-10501 – Physical Science (3) <b>AND</b> PHY-10502 – Lab (1)</li> </ul>

**Certificates**

- Correctional Officer

**Associate in Applied Science**

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

**Associate**

- Criminal Justice – Generalist

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**PARTNERSHIP PROGRAMS**

- Police Academy – Alpena Community College
- Mid Michigan Community College
- North Central Michigan College

**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.*

- |   |  |
|---|--|
| <input type="checkbox"/> ENG-10000 Writing Lab (if required)<br><input type="checkbox"/> English: _____ | <input type="checkbox"/> Mathematics: _____<br><input type="checkbox"/> Reading: _____ |
|---|--|

**Focus**

These courses are the required focused courses in this program. They are the heart of the program. Some of the courses listed may have prerequisites (which are listed in the course description section of the catalog). Students also need to complete the courses listed in the WRAP section (some special certificate and certificate programs may not have WRAP courses listed). Therefore, students should consult advisors for assistance in planning course schedules.

**WRAP**

Kirtland Community College strives to prepare students with a solid general education background, which is called WRAP— Well Rounded Academic Program. Students pursuing a special certificate begin by focusing on courses that pertain specifically to the field of interest. General education courses will be taken as the student continues on to the certificate or associate degree level.

For more information, please contact the Criminal Justice Department.

Shawn Kaniewski	989-275-5000, extension 283
Jerry Boerema	989-275-5000, extension 323



# CORRECTIONAL OFFICER

Certificate of Completion (CCRR1)

Minimum Credits: 32

## 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.

## Focus

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

## WRAP

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	3	<ul style="list-style-type: none"><li>• ENG-10000 – Writing Lab (1) (if required)</li><li>• ENG-10303 – English Composition I (3)</li></ul>
Life Skills	3	<ul style="list-style-type: none"><li>• CIS-10500 – Introduction to Computers (3)</li></ul>

# CORRECTIONS ADMINISTRATION

Associate in Applied Science (DCRA0)

**Minimum Credits: 64**

## 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.

## Focus

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
CJS-12100	Photography for Police/Firefighters	3			

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

## WRAP

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	6-10	<ul style="list-style-type: none"> <li>• COM-10000 – Written &amp; Oral Communication (3) <b>OR</b></li> <li>ENG-10403 – English Composition II (3) <b>AND</b> SPE-10500 – Speech (3) <b>OR</b></li> <li>ENG-10403 (3) <b>AND</b> SPE-11400 – Interpersonal Communication (3)</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> </ul>
Humanities/Social Science	12	<ul style="list-style-type: none"> <li>• POL-10100 – American Government (3)</li> <li>• PSY-10100 – Introduction to Psychology (3)</li> <li>• SOC-10100 - Introduction to Sociology (3)</li> <li>• Humanities <b>OR</b> Social Science elective (3)</li> </ul>
Life Skills	3	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3) <b>OR</b></li> <li>OIS-10401/2/3 – Keyboarding I A, B, &amp; C (3)</li> </ul>
Math/Natural Science	8	<ul style="list-style-type: none"> <li>• MTH-10100 – Finite Math (4) or higher</li> <li>• Science Elective (3) <b>AND</b> Lab (1)</li> </ul>

# CORRECTIONS ADMINISTRATION – JAIL ADMINISTRATION

Associate in Applied Science (DCRA1)

**Minimum Credits: 64**

## 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.

## Focus

Course	Title	Cr	Course	Title	Cr
CJS-10000	Introduction to Criminal Justice	3	CJS-21100	Narcotics Investigation	3
CJS-10900	Introduction to Corrections	3	CJS-24000	Criminology	3
CJS-11000	Careers in Criminal Justice	1	CJS-26007	Corrections Academy	10
CJS-17200	Client Relations in Corrections	3	CJS-27000	Community Based Corrections	3
CJS-20800	Criminal Justice Internship*	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
CJS-12100	Photography for Police/Firefighters	3			

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

## WRAP

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	6-10	<ul style="list-style-type: none"> <li>• COM-10000 – Written &amp; Oral Communication (3) <b>OR</b></li> <li>ENG-10403 – English Composition II (3) <b>AND</b> SPE-10500 – Speech (3) <b>OR</b></li> <li>ENG-10403 <b>AND</b> SPE-11400 – Interpersonal Communication (3)</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> </ul>
Humanities/Social Science	12	<ul style="list-style-type: none"> <li>• POL-10100 – American Government (3)</li> <li>• PSY-10100 – Introduction to Psychology (3)</li> <li>• SOC-10100 - Introduction to Sociology (3)</li> <li>• Humanities <b>OR</b> Social Science elective (3)</li> </ul>
Life Skills	3	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3) <b>OR</b></li> <li>OIS-10401/2/3 – Keyboarding I A, B, &amp; C (3)</li> </ul>
Math/Natural Science	8	<ul style="list-style-type: none"> <li>• MTH-10100 – Finite Math (4) or higher</li> <li>• Science Elective (3) <b>AND</b> Lab (1)</li> </ul>

# CRIMINAL JUSTICE ADMINISTRATION

Associate in Applied Science (DCJA0)

**Minimum Credits: 60**

## 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.

## Focus

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-17103	Correctional Officer's Report Writing	1
CJS-10800	Firearms	3	CJS-17200	Client Relations in Corrections	3
CJS-10900	Introduction to Corrections	3	CJS-21100	Narcotics Investigation	3
CJS-11100	Legal Issues in Corrections	3	CJS-24500	Social Deviant Behavior	3
CJS-11200	Client Growth & Development	3	CJS-27000	Community Based Corrections	3
CJS-12100	Photography for Police/Firefighters	3	CJS-28001	Institutional Jail/Prison Administration	3

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

## WRAP

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	6-10	<ul style="list-style-type: none"> <li>• COM-10000 – Written &amp; Oral Communication (3) <b>OR</b></li> <li>ENG-10403 – English Composition II (3) <b>AND</b> SPE-10500 – Speech (3) <b>OR</b></li> <li>ENG-10403 <b>AND</b> SPE-11400 – Interpersonal Communication (3)</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> </ul>
Humanities/Social Science	12	<ul style="list-style-type: none"> <li>• POL-10100 – American Government (3)</li> <li>• PSY-10100 – Introduction to Psychology (3)</li> <li>• SOC-10100 - Introduction to Sociology (3)</li> <li>• Humanities <b>OR</b> Social Science elective (3)</li> </ul>
Life Skills	3	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3) <b>OR</b></li> <li>OIS-10401/2/3 – Keyboarding I A, B, &amp; C (3)</li> </ul>
Math/Natural Science	8	<ul style="list-style-type: none"> <li>• MTH-10100 – Finite Math (4) or higher</li> <li>• Science Elective (3) <b>AND</b> Lab (1)</li> </ul>

# CRIMINAL JUSTICE PRE-SERVICE

Associate in Applied Science (DCJP0)

**Minimum Credits: 66**

## 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.

## Focus

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

## WRAP

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	6-10	<ul style="list-style-type: none"> <li>• COM-10000 – Written &amp; Oral Communication (3) <b>OR</b></li> <li>ENG-10403 – English Composition II (3) <b>AND</b> SPE-10500 – Speech (3) <b>OR</b></li> <li>ENG-10403 – English Composition II (3) <b>AND</b> SPE-11400 – Interpersonal Communication (3)</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> </ul>
Humanities/Social Science	12	<ul style="list-style-type: none"> <li>• POL-10100 – American Government (3)</li> <li>• PSY-10100 – Introduction to Psychology (3)</li> <li>• SOC-10100 – Introduction to Sociology (3)</li> <li>• PSY-20200 – Abnormal Psychology (3)</li> </ul>
Life Skills	3	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3) <b>OR</b></li> <li>OIS-10401/2/3 – Keyboarding I A, B, &amp; C (3)</li> </ul>
Math/Natural Science	8	<ul style="list-style-type: none"> <li>• MTH-10100 – Finite Math (4) or higher</li> <li>• Science Elective (3) <b>AND</b> Lab (1)</li> </ul>

## 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.

# ASSOCIATE IN CRIMINAL JUSTICE - GENERALIST

(DCJG0)

**Minimum Credits: 60**

## 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.

## Focus

Course	Title	Cr
CJS-10000	Introduction to Criminal Justice	3
CJS-24000 SOC-24000	Criminology <b>OR</b> Criminology <b>OR</b> Substitution approved by advisor	3

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

## WRAP

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3)*</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)*</li> <li>• ENG-10403 – English Composition II (3)*</li> <li>• SPE-10500 – Fund. of Speech (3)* <b>OR</b> SPE-11400 – Interpersonal Communication (3)*</li> </ul>
Humanities	11-12	<ul style="list-style-type: none"> <li>• Select 2-3 credits from Art, Music, or Theater.*</li> <li>• Select 3 credits from Journalism, Languages, or Literature. *</li> <li>• HIS-10500 – World Societies to 1500 (3)* <b>OR</b></li> <li>  HIS-10600 – World Societies Since 1500 (3)* <b>OR</b></li> <li>  HIS-20100 – US History to 1865 (3)* <b>OR</b></li> <li>  HIS-20200 – US History Since 1865 (3)* <b>OR</b></li> <li>  HIS-20300 – Michigan History (3)*</li> <li>• PHL-20100 – Intro to Philosophy (3)* <b>OR</b> PHL-21000 – Intro to Ethics (3)*</li> </ul>
Social Science	15-16	<ul style="list-style-type: none"> <li>• POL-10100 – American Government (3)*</li> <li>• GEO-10000 – World Geography (4)* <b>OR</b></li> <li>  POL-20000 – International Relations (3)* <b>OR</b></li> <li>  POL-20100 – Comparative Government* (3)</li> <li>• SOC-10100 – Introduction to Sociology (3)*</li> <li>• PSY-10100 – Introduction to Psychology (3)*</li> <li>• PSY-20200 – Abnormal Psychology (3)</li> </ul>
Math/Natural Science	12-14	<ul style="list-style-type: none"> <li>• MTH-12000 – Intermediate Algebra (4)* <b>or</b> higher (excluding MTH-20500 and MTH-20600)</li> <li>• Select two science courses with a lab from BIO, CHE, GEL, or PHY (8-10)*</li> </ul>

\* 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.

# 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

<p><b>Alpena Community College</b> Contact: Michael Roy 989-358-7208 <a href="mailto:roym@ns.alpena.cc.mi.us">roym@ns.alpena.cc.mi.us</a></p> <p><b>Mid Michigan Community College</b> Contact: Barney Ledford 989-773-6622, ext. 230 <a href="mailto:bledford.@midmich.edu">bledford.@midmich.edu</a></p> <p><b>North Central Michigan College</b> Contact: James Carter Phone # 231-439-6379 <a href="mailto:jcart@ncmc.cc.mi.us">jcart@ncmc.cc.mi.us</a></p>	<p><b>Kirtland Community College</b> Contact: Jerry Boerema or Shawn Kaniewski 989-275-5000, extension 323 <a href="mailto:boeremaj@kirtland.edu">boeremaj@kirtland.edu</a></p>
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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.

**Certificates**

- CWB&I – Automobile Body Repairer
- CWB&I – Computer Technician
- CWB&I – Golf Course Operations
- CWB&I – Hotel/Motel Management
- CWB&I – Insurance Sales
- CWB&I – Pharmacy Technician
- CWB&I – Restaurant Manager Trainee
- CWB&I – Retail Manager Trainee
- CWB&I – Title Research and Abstract
- CWB&I – Web Master I
- CWB&I – Web Master II

**Associate in Applied Science**

- Available in areas listed above

**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.*

- |  |   |
|--|---|
| <input type="checkbox"/> ENG-10000 Writing Lab (if required) | <input type="checkbox"/> Mathematics: _____ |
| <input type="checkbox"/> English: _____                      | <input type="checkbox"/> Reading: _____     |

**Focus**

These courses are the required focused courses in this program. They are the heart of the program. Some of the courses listed may have prerequisites (which are listed in the course description section of the catalog). Students also need to complete the courses listed in the WRAP section (some special certificate and certificate programs may not have WRAP courses listed). Therefore, students should consult advisors for assistance in planning course schedules.

**WRAP**

Kirtland Community College strives to prepare students with a solid general education background, which is called WRAP— Well Rounded Academic Program. Students pursuing a special certificate begin by focusing on courses that pertain specifically to the field of interest. General education courses will be taken as the student continues on to the certificate or associate degree level.

For more information, please contact the CWB&I Coordinator.  
 Steve Oppy 989-275-5000, extension 440



# CONTRACTING WITH BUSINESS AND INDUSTRY (CWB&I)

Certificate of Completion (CBIO0)

Minimum Credits: 32

## Introduction

Contracting with Business and Industry (CWB&I) is a program for specialized career training combining off-campus "hands-on" experience with related on-campus instruction. Students enrolled in CWB&I train 192 hours per semester at a local business. Placement is determined by the student's personal interview with the business trainer, which is arranged by the CWB&I advisor. Students may begin with the fall, winter, or summer semester and usually complete all requirements within the academic year.

This program is intended to provide students with the required training to gain entry-level positions in their chosen career field. CWB&I is a unique program that has great flexibility. The career training options appear to be limitless. Students may select from the following list of training programs. If a needed program is not listed, the CWB&I advisor may develop a different career option to meet an individual need.

Automobile Body Repairer  
Computer Technician  
Golf Course Operations  
Hotel/Motel Management

Insurance Sales  
Pharmacy Technician  
Restaurant Manager Trainee

Retail Manager Trainee  
Title Research and Abstract  
Web Master I  
Web Master II

Students wanting to continue in this program may pursue the Associate in Applied Science: CWB&I degree. Students are encouraged to discuss additional educational opportunities (i.e., two-year or four-year degrees) with their program advisor.

## Prerequisites

In addition to submitting an Application for Admission to Kirtland Community College, students are required to complete a CWB&I Application form and interview with the CWB&I advisor, Steve Oppy. Students are encouraged to call 989-275-5000, extension 440, for an appointment.

## Focus

Course	Title	Cr
CBI-101--	Off Campus Training	8

Course	Title	Cr
CBI-102--	Off-Campus Training	8

Each program will be customized to the needs of the student. Therefore, focus courses will vary. An example is included below.

### Hotel/Motel Management

Course	Title	Cr
BUS-10100	Introduction to Business	3
BUS-21000	Principles of Management	3
BUS-24500	Personnel Management	3
CAR-10300	Career Development Skills	1
CBI-10111	Off-Campus Training	8

Course	Title	Cr
CBI-10211	Off-Campus Training	8
ENG-10000	Writing Lab (if required)	0-1
ENG-10303	English Composition I/Computers	3
SPE-11400	Interpersonal/Public Communication	3

**Note:** Students should consult the CWB&I advisor for assistance in planning course schedules.

# CONTRACTING WITH BUSINESS AND INDUSTRY (CWB&I)

Associate in Applied Science (DBIO0)

**Minimum Credits: 60**

## Introduction

Contracting with Business and Industry (CWB&I) is a program for specialized career training combining off-campus "hands-on" experience with related on-campus instruction. Students enrolled in CWB&I train 192 hours per semester at a local business. Placement is determined by the student's personal interview with the business trainer, which is arranged by the CWB&I advisor. Students may begin with the fall, winter, or summer semester and usually complete all requirements within the academic year. This program is intended to provide students with the required training to gain entry-level positions in their chosen career field.

CWB&I is a unique program that has great flexibility. The career training options appear to be limitless. Students may select from the following list of training programs. If a needed program is not listed, the CWB&I advisor may develop a different career option to meet an individual need.

- |                          |                            |                             |
|--------------------------|----------------------------|-----------------------------|
| Automobile Body Repairer | Insurance Sales            | Retail Manager Trainee      |
| Computer Technician      | Pharmacy Technician        | Title Research and Abstract |
| Golf Course Operations   | Restaurant Manager Trainee | Web Master I                |
| Hotel/Motel Management   |                            | Web Master II               |

Students are encouraged to discuss additional educational opportunities (i.e., two-year or four-year degrees) with their program advisor.

## Prerequisites

In addition to submitting an Application for Admission to Kirtland Community College, students are required to complete a CWB&I Application form and interview with the CWB&I advisor, Steve Oppy. Students are encouraged to call 989-275-5000, extension 440, for an appointment.

## Focus

Course	Title	Cr	Course	Title	Cr
CBI-101--	Off Campus Training	8	CBI-102--	Off Campus Training	8

**and 25 credits hours of courses specific to each program**

## WRAP

Subject Area	Credits Needed	Courses (Credit hours are listed after each course.)
Communications	6-7	<ul style="list-style-type: none"> <li>• COM-10000 – Written &amp; Oral Communication (3)</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> </ul>
Humanities/Social Science	9	<ul style="list-style-type: none"> <li>• HUM-20500 – Individual &amp; Society (3)</li> <li>• POL-10100 – American Government (3)</li> <li>• PSY-10100 – Introduction to Psychology (3) <b>OR</b></li> <li>SOC-10100 – Introduction to Sociology (3)</li> </ul>
Math/Natural Science	4	<ul style="list-style-type: none"> <li>• MTH-10100 – Finite Math (4) <b>OR</b></li> <li>MTH-12000 – Intermediate Algebra or higher</li> </ul>

**Note:** Students should consult the CWB&I advisor for assistance in planning course schedules.

**Associate in Applied Science**

- Paraprofessional

**Associate in Teaching**

**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: \_\_\_\_\_

**Focus**

These courses are the required focused courses in this program. They are the heart of the program. Some of the courses listed may have prerequisites (which are listed in the course description section of the catalog). Students also need to complete the courses listed in the WRAP section (some special certificate and certificate programs may not have WRAP courses listed). Therefore, students should consult advisors for assistance in planning course schedules.

**WRAP**

Kirtland Community College strives to prepare students with a solid general education background, which is called WRAP— Well Rounded Academic Program. Students pursuing a special certificate begin by focusing on courses that pertain specifically to the field of interest. General education courses will be taken as the student continues on to the certificate or associate degree level.

For more information, please contact the Education advisors.

Don Dyer	Paraprofessional AAS	989-275-5000, extension 231
Denise Kemp Marcell Romancky	Associate in Teaching	989-275-5000, extension 391 & 290

# PARAPROFESSIONAL

Associate in Applied Science (DPRO0)

**Minimum Credits: 60**

## 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	6-10	<ul style="list-style-type: none"> <li>• ENG-10000 – Writing Lab (0-1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> <li>• COM-10000 – Written &amp; Oral Communication (3) <b>OR</b>                ENG-10403, English Comp II (3) <b>AND</b> SPE-10500, Fund of Speech (3) <b>OR</b>                ENG-10403, English Comp II (3) <b>AND</b> SPE-11400, Into to Interper/Public (3)</li> </ul>
Education	6	<ul style="list-style-type: none"> <li>• EDU-10000 – Introduction to Teaching (3)</li> <li>• EDU-24000 – Technology in Education (3)</li> </ul>
Humanities/Social Science	6	<ul style="list-style-type: none"> <li>• - - - - - Humanities Elective (3)</li> <li>• PSY-10100 – Introduction to Psychology (3)</li> </ul>
Life Skills	3	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3)</li> </ul>
Math/Natural Science	14-15	<ul style="list-style-type: none"> <li>• MTH-12000 – Intermediate Algebra <b>or</b> higher (4)</li> <li>• MTH-11700 – Mathematics for Elementary Teachers I (3)</li> <li>• MTH-21700 – Mathematics for Elementary Teachers II (3)</li> <li>• One science course with a lab (4-5)</li> </ul>

**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*	20-25

# ASSOCIATE IN TEACHING

(DATG0)

**Minimum Credits: 60**

## 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	<ul style="list-style-type: none"> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> <li>• ENG-10403 – English Composition II (3)</li> <li>• SPE-10500 – Fundamentals of Speech (3) <b>OR</b> SPE-11400 – Intro to Interpersonal &amp; Public Communication (3)</li> </ul>
Education	6	<ul style="list-style-type: none"> <li>• EDU-10000 – Introduction to Teaching (3)</li> <li>• EDU-24000 – Technology in Education (3)</li> </ul>
Humanities/Social Science	26	<ul style="list-style-type: none"> <li>• ENG-23000 – American Literature before 1865 (3) <b>OR</b> ENG-23100 – American Literature after 1865 (3)</li> <li>• FRE-11000 – French I (4) <b>OR</b> SPN-11000 – Spanish I (4)</li> <li>• GEO-10000 – World Geography (4)</li> <li>• HIS-20100 – United States History to 1865 (3) <b>OR</b> HIS-20200 – United States History since 1865 (3)</li> <li>• MUS-10100 – Music History (3)</li> <li>• PHL-21000 – Introduction to Ethics (3)</li> <li>• POL-10100 – Introduction to American Government (3)</li> <li>• PSY-10100 – Introduction to Psychology (3)</li> </ul>
Life Skills	3	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3)</li> </ul>
Math/Natural Science	13	<ul style="list-style-type: none"> <li>• MTH-12000 – Intermediate Algebra (4)</li> <li>• AST-10101 – Astronomy I (3) <b>AND</b> AST-10102 – Astronomy I lab (2)</li> <li>• BIO-10100 – General Biology (4)</li> </ul>

**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 <b>or</b> higher	4

**Special Certificates**

- Basic Emergency Medical Technician

**Certificates**

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

**Associate in Applied Science**

- Emergency Medical Services (Paramedic)
- Massage Therapy
- Nursing – Level II (Full and Part Time programs)

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**PARTNERSHIP PROGRAMS**

**Associate in Applied Science**

- RN from LPN/LVN – Monroe County CC & Kalamazoo Valley CC
- Radiography – Mid Michigan Community College

**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.*

- |   |  |
|---|--|
| <input type="checkbox"/> ENG-10000 Writing Lab (if required)<br><input type="checkbox"/> English: _____ | <input type="checkbox"/> Mathematics: _____<br><input type="checkbox"/> Reading: _____ |
|---|--|

**Focus**

These courses are the required focused courses in this program. They are the heart of the program. Some of the courses listed may have prerequisites (which are listed in the course description section of the catalog). Students also need to complete the courses listed in the WRAP section (some special certificate and certificate programs may not have WRAP courses listed). Therefore, students should consult advisors for assistance in planning course schedules.

**WRAP**

Kirtland Community College strives to prepare students with a solid general education background, which is called WRAP— Well Rounded Academic Program. Students pursuing a special certificate begin by focusing on courses that pertain specifically to the field of interest. General education courses will be taken as the student continues on to the certificate or associate degree level.

For more information, please contact the Health Careers Department.

Anne Essmaker	989-275-5000, extension 372
Karen Brown	989-275-5000, extension 298

## BASIC EMERGENCY MEDICAL TECHNICIAN (EMT)

Special Certificate (SEMT0)

Minimum Credits: 10

### 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.

**Focus:** 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.
- 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.

## PARAMEDIC

Certificate of Completion (CPAR0)

Minimum Credits: 52

### 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.

### Focus

The following courses are the required focused courses in this program. 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/Computer	3

### Notes:

- Conviction for some criminal offenses may render a candidate ineligible for taking the national certification examination.
- 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.
- Students are required to complete all required courses with a “C” or better.

**FOR ADVISING IN THE ABOVE PROGRAMS PLEASE CALL ANNE ESSMAKER (989) 275-5000, EXT 372**

# EMERGENCY MEDICAL SERVICES (PARAMEDIC)

Associate in Applied Science (DEMS0)

Minimum Credits: 72

## 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.

## Focus

Course	Title	Cr
ALH-10101	Medical Terminology	2
ALH-11201	Medical Ethics & Law	1
ALH-21500	Paramedic I	13
ALH-22500	Paramedic II	13
ALH-23500	Paramedic III	16
ALH-24500	Paramedic IV	7
BIO-10701	Essentials of Anatomy & Physiology	3
BIO-10702	Essentials of A&P lab	1

Course	Title	Cr
COM-10000	Written & Oral Communication	3
ENG-10000	Writing Lab (if required)	0-1
ENG-10303	English Composition I w/Computers	3
HUM-20500 <b>or</b> POL-10100	The Individual & Society <b>OR</b> Intro to American Government	3
MTH-10100	Finite Math <b>or</b> higher	4
PSY-10100	Introduction to Psychology	3

## Notes:

- Conviction for some criminal offenses may render a candidate ineligible for taking the national certification examination.
- 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
- Students are required to complete all required courses with a grade of "C" or better.

**FOR ADVISING IN THE ABOVE PROGRAM PLEASE CALL ANNE ESSMAKER (989) 275-5000, EXT 372**



# MASSAGE THERAPY

Certificate of Completion (CMAS0)

Minimum Credits: 41.5

## 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 41.5 credit hours and 664 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.

## Focus

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., ENG-10303 before COM-10000).

Course	Title	Cr
<b>Semester I – Fall (Prerequisites to program)</b>		
ALH-10101	Medical Terminology	2
BIO-10701	Essentials of Anatomy/Physiology	3
BIO-10702	Essentials of Anato/Physiology Lab	1
MAS-10000	Introduction to Massage Therapy	1
<b>Semester II – Winter</b>		
ALH-12401	Lifetime Wellness & Nutrition*	2
MAS-10200	Introduction to Clinic Operations	1
MAS-10300	Swedish Massage I	2
MAS-10400	Swedish Massage II	2
MAS-11000	Massage Skills Lab	1
MAS-12801	Integrated Structural Dynamics	2
MAS-12300	Structural Based Bodywork I	1
ALH-10801	Pathology*	3

Course	Title	Cr
<b>Semester III – Summer</b>		
MAS-12200	Clinic I	2
MAS-13004	Topics I	1
MAS-12401	Structural Based Bodywork II	3
MAS-13005	Topics II	1
<b>Semester IV – Fall</b>		
ALH-11201	Medical Ethics & Law*	1
BUS-10100	Introduction to Business*	3
MAS-12500	Structural Based Bodywork III	1
MAS-12600	Energy Based Bodywork I	2
MAS-12700	Energy Based Bodywork II	2
MAS-13100	Clinic II	2
MAS-13200	Internship	1.5
ALH-20201	Standard First Aid* or current First Aid & CPR Cards	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.
- 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: 61.5**

## 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 61.5 credit hours and 1,048 contact hours are required.

**Prerequisites:** Students must successfully complete the prerequisite courses in Semester I – Fall, before being admitted to the program.

## Focus

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., ENG-10303 before COM-10000).

Course	Title	Cr
<b>Semester I – Fall (Prerequisites to the program)</b>		
ALH-10101	Medical Terminology	2
BIO-10701	Essentials of Anatomy/Physiology	3
BIO-10702	Essentials of Anat/Physiology Lab	1
ENG-10000	Writing Lab (if required) *	0-1
ENG-10303	English Composition I *	3
MAS-10000	Introduction to Massage Therapy	1
PSY-10100	Introduction to Psychology *	3
<b>Semester II – Winter</b>		
ALH-10801	Pathology *	3
ALH-12401	Lifetime Wellness & Nutrition*	2
MAS-10200	Introduction to Clinic Operations	1
MAS-10300	Swedish Massage I	2
MAS-10400	Swedish Massage II	2
MAS-11000	Massage Skills Lab	1
MAS-12801	Integrated Structural Dynamics	2
MAS-12300	Structural Based Bodywork I	1

Course	Title	Cr
<b>Semester III – Summer</b>		
CIS-10500	Introduction to Computers *	3
MAS-12200	Clinic I	2
MAS-13004	Topics I	1
MAS-12401	Structural Based Bodywork II	3
MAS-13005	Topics II	1
MTH-10100	Finite Math <b>or</b> competency*	0-4
-----	General Electives - 100 Level or above	0-3
<b>Semester IV - Fall</b>		
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
COM-10000	Written & Oral Communication *	3
HUM-20500	Individual & Society * <b>OR</b>	3
POL10100	Intro to American Government	
MAS-12500	Structural Based Bodywork III	1
MAS-12600	Energy Based Bodywork I	2
MAS-12700	Energy Based Bodywork II	2
MAS-13100	Clinic II	2
MAS-13200	Internship	1.5
MAS-27500	Directed Study I*	2

## 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**

**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. Outreach programs are offered in Gaylord.

Each class of nursing students is considered a cohort (group), so 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.
- Successfully complete all required courses with grade of “C” or better, unless otherwise 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 March 1 of the calendar year in which the student is requesting admission to the nursing program.
- 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 program application.
- Students must maintain an active 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 nursing program.**

Course	Title	Cr		Course	Title	Cr
ALH-10101	Medical Terminology	2		ALH-12401	Lifetime Wellness & Nutrition	2
ALH-20201	Standard First Aid (taken just prior to program <b>OR</b> substitute professional CPR taken within 3 months prior to start of clinical)	0-1		CIS-10500	Intro to Computers <b>OR</b> competency	0-3
				DEV-07300	Basic Algebra or competency	0-4
				ENG-10000	Writing Lab (if required)	0-1
				ENG-10303	English Composition I/Computers	3
BIO-10701/2	Essentials of Anatomy & Physiology <b>AND</b> Lab (with grade of “B” or better)	3/1	<b>OR</b>	BIO-11500 BIO-11600	Anatomy & Physiology I <b>AND</b> Anatomy & Physiology II (with grade of “B” or better)	8

**Focus**

Course	Title	Cr
<b>Semester I – Fall</b>		
ALH-11400	Math for Medication Administration	1
ALH-15000	Basic Pharmacology	3
NUR-10502	Foundations of Nursing	3
NUR-10700	Mental Health Concepts	1
NUR-10803	Nursing Practice Lab	3
NUR-10804	Nursing Clinical I	2
<b>Semester II - Winter</b>		
NUR-12304	Nursing Clinical II	5
NUR-12503	Adult Medical-Surgical Nursing	4

Course	Title	Cr
NUR-12602	Nursing Care of Children	2
NUR-12702	Nursing Care / Childbearing Family	2
<b>Semester III – Summer</b>		
NUR-13302	Current Issues in Nursing	1
NUR-13402	Nursing Clinical III	2
<b>PART-TIME OPTION</b>		
<b>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.</b>		

**Notes**

- Conviction for some criminal offenses may render a candidate ineligible for writing the examination (NCLEX-PN) 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 clinical semester.
- An authorization for release of information with regard to criminal history is required (form available in health careers dept).
- The above information is applicable for students entering the nursing program in the 2005/2006 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 on all nursing program **Focus** courses.

**FOR ADVISING IN THE ABOVE PROGRAM PLEASE CALL ANNE ESSMAKER (989) 275-5000, EXT 372**

# ASSOCIATE DEGREE IN NURSING – LEVEL II

Associate in Applied Science (DADN1)

**Minimum Credits: 71.5**

**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 with a GPA of 3.0 in applicable academic courses may 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), so students must consult with the health careers advisor before making any schedule changes or changing from full- 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.
- Students must maintain an active e-mail account to ensure timely communication between students, faculty, and staff.
- 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 March 1 of the calendar year in which the student is requesting admission to the nursing program.
- Successfully complete all required courses with grade of C or better, unless otherwise noted.

**Prerequisites: Students must successfully complete the following courses before being admitted to the level II nursing program.**

Course	Title	Cr	Course	Title	Cr
Successful completion (GPA 3.0 or higher) of Level I or other Practical Nursing program with Experience		20*	BIO-11600	Anatomy & Physiology II (B or better)	4
			BIO-21500	Pathophysiology	4
			CIS-10500	Intro to Computers OR competency	0-3
ALH-12401 NUR-25508	Lifetime Wellness/Nutrition <b>OR</b> Nursing Wellness Seminar (if approved Nutrition course completed or KCC Level I Graduate prior to 2001)	1-2	ENG-10403	English Composition II	3
			MTH-10100	Finite Math <b>OR</b> competency	0-4
			POL-10100	Introduction to Government	3
			PSY-10100	Introduction to Psychology	3
BIO-11500 <b>OR</b> BIO-10701/02	Anatomy & Physiology I <b>OR</b> Essentials of A&P w/Lab (B or better)	4	ALH-20201 <b>or</b> Professional provider CPR taken within 3 months of program		0-1

\*Students with current LPN licenses may be granted 20 credits toward this program upon presentation of their license.

**Focus:** Courses that are marked with an asterisk (\*) may be assigned in any of the three semesters.

Course	Title	Cr
<b>Semester I – Fall</b>		
NUR-22001	Nursing Assessment	3
NUR-23200	Family Centered Pediatrics*	2
NUR-23300	Pediatric Nursing Clinical*	1
NUR-24200	Community Mental Health Nursing*	2.5
NUR-24301	Community Mental Health Clinical*	2
NUR-24600	Nursing Care of Women & Families*	2
NUR-24700	OB/GYN Nursing Clinical*	1
<b>Semester II - Winter</b>		
NUR-21400	Nursing Pharmacology	2
NUR-22200	Critical Thinking in Adult Care*	4

Course	Title	Cr
NUR-22300	Adult Nursing Clinical*	5
NUR-25201	Professional Practice	2
<b>Semester III – Summer</b>		
NUR-25202	Professional Leadership	2
NUR-25300	Clinical Leadership	1
<b>PART-TIME OPTION</b>		
<p><b>Students also have the option of completing this program on a part-time basis in six 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.</b></p>		

**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 clinical 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.
- A minimum grade of “C+” is required on all nursing program **Focus** 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**

## PARTNERSHIP 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/>

<b>Kirtland Community College</b> Karen Brown	989-275-5000, extension 298 <a href="mailto:brownk@kirtland.edu">brownk@kirtland.edu</a>
<b>Kalamazoo Valley Community College</b> Dennis Berth	616-372-5108 <a href="mailto:dbertch@kvcc.edu">dbertch@kvcc.edu</a>
<b>Monroe County Community College</b> Karen Brooke	734-384-4265 <a href="mailto:kbrooke@monroeccc.edu">kbrooke@monroeccc.edu</a>

**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) of all required courses in order to be considered. Candidates must also have a license to practice as a LPN/LVN in good standing and six months of full-time experience (or equivalent) to be considered for admission. A detailed resume of LPN experience 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 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	Course	Title	Cr
	Successful completion of LPN/LVN program with experience	20*	ENG-10403	English Composition II/Computer	3
	Successfully complete an online course to demonstrate competency	0	MTH-10100	Finite Math <b>OR</b> demonstrated competency	0-4
BIO-11500	Anatomy & Physiology I	4	NURS 180W	Pharmacology (Kalamazoo Valley)	2-3
BIO-11600	Anatomy & Physiology II	4	NUR 21400	<b>OR</b> Pharmacology (Kirtland)	
CIS-10500	Introduction to Computers <b>OR</b> competency	0-3	POL-10100	Intro to American Government	3
ENG-10303	English Composition I/Computers	3	PSY-10100	Introduction to Psychology	3
			--- ---	Humanities elective	3

### Focus

Course	Title	Cr
<b>Semester I</b>		
NUR-22001	Nursing Assessment	3
NUR-26001	Nursing Care of Adults	8

Course	Title	Cr
<b>Semester II</b>		
NUR-290.L1	Nursing Leadership (Monroe)	3
NUR-27000	Nursing Care/Special Populations	8
<b>Semester III</b>		
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 clinical 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.

# RADIOGRAPHY

## PARTNERSHIP PROGRAM

Associate in Applied Science – Mid Michigan Community College

**Mid Michigan Community College**

John Skinner, Program Director

989-386-6646

[jskinner@midmich.cc.mi.us](mailto:jskinner@midmich.cc.mi.us)

**Kirtland Community College**

Anne Essmaker

989-275-5000, extension 372

[essmakea@kirtland.edu](mailto:essmakea@kirtland.edu)

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.

**The following information is designed for students to take the general education courses that are needed to transfer to a university for bachelor's degree completion. Further details regarding employment information and curriculum are available in the Transfer programs, under Associate in Science.**

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## **Pre-Engineering**

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### **Nature of the Work**

Engineers employ the theory and principles of science and mathematics to the economical solution of practical technical problems. They design machinery, products, systems, and processes for efficient and economical performance. Also, many engineers design, plan, and supervise the construction of buildings, highways, and transit systems. Most engineers specialize in one of more than 25 major specialties recognized by professional societies

Engineers in each specialization have knowledge and training that can be applied to many fields. They often use computers to simulate how a machine, structure, or system operates. Many engineers work in laboratories, industrial plants, or construction sites where they inspect, supervise, or solve onsite problems. Others work in an office almost all the time.

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## **Pre-Optometry**

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### **Nature of the Work**

Over half the people in the United States wear glasses or contact lenses. Optometrists provide most of the primary vision care people need. They examine people's eyes to diagnose vision problems and eye disease and provide treatment. Most optometrists are in general practice.

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## **Pre-Pharmacy**

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### **Nature of the Work**

Pharmacists dispense drugs prescribed by physicians and other health practitioners and provide information to patients about medications and their use. They advise physicians and other health practitioners on the selection, dosages, and side effects of medications. Pharmacists must understand the use, composition, and effects of drugs. Compounding - the actual mixing of ingredients to form powders, tablets, capsules, ointments, and solutions - is only a small part of a pharmacist's practice, because most medicines are produced by pharmaceutical companies in a standard form and dosage.

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## **Pre-Veterinary Medicine**

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### **Nature of the Work**

Veterinarians care for pets, livestock, sporting and laboratory animals, and protect humans against diseases carried by animals. Veterinarians diagnose medical problems, dress wounds, set broken bones, perform surgery, prescribe and administer medicines, and vaccinate animals against diseases. They also advise owners on care and breeding.

**KIRTLAND HONORS PROGRAM**

**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 Fine Arts |
| Honors Associate in Applied Science         | Honors Associate in Science   |
| Honors Associate in Business Administration |                               |

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.	
Honors Secretary	989-275-5000, extension 359
Kathy Marsh	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)

**Associate in Applied Science**

- Engineering & Design Technologies (Central Campus)
- Industrial Maintenance (M-TEC Campus)

**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: \_\_\_\_\_

**Focus**

These courses are the required focused courses in this program. They are the heart of the program. Some of the courses listed may have prerequisites (which are listed in the course description section of the catalog). Students also need to complete the courses listed in the WRAP section (some special certificate and certificate programs may not have WRAP courses listed). Therefore, students should consult advisors for assistance in planning course schedules.

**WRAP**

Kirtland Community College strives to prepare students with a solid general education background, which is called WRAP— Well Rounded Academic Program. Students pursuing a special certificate begin by focusing on courses that pertain specifically to the field of interest. General education courses will be taken as the student continues on to the certificate or associate degree level.

For more information, please contact the Industrial Technologies Department.  
Jason Prout (Central Campus)                      989-275-5000, ext. 318/ [proutj@kirtland.edu](mailto:proutj@kirtland.edu)  
Kerry Harwood (M-TEC Campus)                      989-705-3695/ [harwoodk@kirtland.edu](mailto:harwoodk@kirtland.edu)

## INDUSTRIAL MAINTENANCE / M-TEC Campus

Certificate of Completion (CIND0)

**Minimum Credits: 30.30**

After completing certificate requirements, students may continue in Associate in Applied Science: Industrial Maintenance.

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

### Focus

Course	Title
	<b>Industrial Maintenance</b>
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
	<b>Industrial Maintenance Level I</b>
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
	<b>Industrial Maintenance Level II</b>
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
	<b>Industrial Maintenance Level III</b>
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
	<b>Industrial Maintenance Level IV</b>
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
	<b>Industrial Maintenance Level V</b>
IND-20258	Preventive & Predictive Maintenance
IND-20259	Performing Reverse Alignment
IND-20261	Troubleshooting/Repairing Pneumatic Eqpmt
IND-20262	Troubleshooting/Repairing Pumps
IND-20263	Troubleshooting/Repairing Hydraulic Eqpmt
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

Associate in Applied Science (DIND0)

**Minimum Credits: 60.3**

After completing the certificate, students may continue in Associate in Applied Science: Industrial Maintenance, as listed below.

### Focus

Course	Title	Cr
EDT-11000	Detailing with AutoCAD	3
Electives	CPT-ELT-HVC-IND-MPT-WLD	1.7-2.7

Course	Title	Cr
EDT-14000 or EDT-13000	Architectural Drawing/CAD OR Fundamentals of MasterCAM	4 3

### WRAP

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	6-7	<ul style="list-style-type: none"> <li>• COM-10000 – Written &amp; Oral Communication (3)</li> <li>• ENG-10000 – Writing Lab (0-1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> </ul>
Humanities/Social Science	3	<ul style="list-style-type: none"> <li>• HUM-20500 – Individual &amp; Society (3) <b>OR</b> POL-10100 – American Government (3)</li> </ul>
Life Skills	4	<ul style="list-style-type: none"> <li>• CAR 10300 – Career Development Skills (1)</li> <li>• CIS-10500 – Introduction to Computers (3)</li> </ul>
Math/Natural Science	8	<ul style="list-style-type: none"> <li>• MTH-10100 – Finite Math (4) <b>or</b> higher excluding MTH-20500 and MTH-20600</li> <li>• Any science course with a lab (4)</li> </ul>

## INDUSTRIAL PROCESSES TECHNICIAN / Central & M-TEC Campus

Certificate of Completion (CIND1)

**Minimum Credits: 30**

After completing the Certificate: Industrial Processes Technician requirements, students may continue in Associate in Applied Science: Engineering and Design Technologies.

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

**Focus**

Course	Title	Cr
EDT-10000	Engineering Graphics (if needed)	0-3
EDT-11000	Detailing with AutoCAD	3
EDT-15000	Quality Assurance Methods	3

Course	Title	Cr
AUT-16401 or ELT electives as listed	Basic Electricity <b>OR</b> ELT-10047, 10048, 10049, 10058, 10066, 20084 and 20089	3

and the following courses:

Manufacturing Processes Technology (4.18 credits)	Welding (4.02)
MPT-10272, 10273, 10274, 10275, 10276, 10277, 10278, 10279, 10280, 10281, 10282, 10283, 10284, 10285, 10286, 10287 and 10288	WLD-10341, 10342, 10343, 10344, 10345, 10346, 10347, 10348, 10349, 10350, 10351, 10352, 10353, and 10354

and electives from the following lists for a total of 30 program credits:

Engineering Design Technology	Manufacturing Processes Technology	Math	Welding
EDT-100XX EDT electives	MPT-XXX MPT electives	MTH-12000 or higher	WLD-XXX Welding electives

\* excluding MTH-20500 and MTH-20600

## FIND A REWARDING CAREER IN ENGINEERING DESIGN TECHNOLOGY: A WORLD OF INTERESTING CONCEPTS, ILLUSTRATIONS AND RESULTS

Engineering designers help turn visions into reality – they take ideas and translate them into models and plans that can be created from materials. The Engineering Design Technology program at Kirtland integrates mathematics, engineering and computers into technical courses that teach students the most up-to-date techniques in the field.

The Engineering Design Technology program at Kirtland provides technical training in the fields of industrial, manufacturing, and mechanical engineering technology. EDT is designed to prepare students directly for industry as well as higher education. An Engineering Design Technology Associate in Applied Science degree is offered as well as a CAD Operator Certificate. AutoCAD, SolidWorks and Mastercam are the featured software tools.

If you're curious about how objects are designed and constructed; like math, technical drawing and computers; and enjoy being on the cutting edge of an exciting field, this program may be for you. The objective of the EDT program is to build and enhance students' skills so they can become successful CAD operators and technical designers in Michigan's competitive job market or move on to become the engineers of their generation.

## ENGINEERING and DESIGN TECHNOLOGIES / Central Campus

Associate in Applied Science (DEDT1)

**Minimum Credits: 60**

After completing the Certificate: Industrial Processes Technician students may continue in Associate in Applied Science: Engineering and Design Technologies, as listed below.

Subject Area	Credit	Courses (Credit hours are listed after each course.)
Communications	9-10	<ul style="list-style-type: none"> <li>• ENG-10000 – Writing Lab (if required) (0-1)</li> <li>• ENG-10303 – English Composition I (3)</li> <li>• ENG-10403 – English Composition II (3)</li> <li>• SPE-10500 – Fund of Speech (3)</li> </ul>
Humanities/Social Science	3	<ul style="list-style-type: none"> <li>• HUM-20500 – Individual &amp; Society (3)</li> </ul>
Math/Natural Science	13	<ul style="list-style-type: none"> <li>• MTH-12000 – Intermediate Algebra (4) or higher excluding MTH-20500 and MTH-20600</li> <li>• MTH-12100 – College Algebra with Trigonometry (4) or higher excl. MTH-20500 &amp; 20600</li> <li>• PHY-20101/02, General Physics I w/lab (4/1)</li> </ul>
Technical Electives	7-8	<ul style="list-style-type: none"> <li>• EDT-Engineering Design Technology or</li> <li>MPT-Manufacturing Process Technology or WLD-Welding</li> </ul>

**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

**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.*

- |  |   |
|--|---|
| <input type="checkbox"/> ENG-10000 Writing Lab (if required) | <input type="checkbox"/> Mathematics: _____ |
| <input type="checkbox"/> English: _____                      | <input type="checkbox"/> Reading: _____     |

**Focus**

These courses are the required focused courses in this program. They are the heart of the program. Some of the courses listed may have prerequisites (which are listed in the course description section of the catalog). Students also need to complete the courses listed in the WRAP section (some special certificate and certificate programs may not have WRAP courses listed). Therefore, students should consult advisors for assistance in planning course schedules.

**WRAP**

Kirtland Community College strives to prepare students with a solid general education background, which is called WRAP—Well Rounded Academic Program. Students pursuing a special certificate begin by focusing on courses that pertain specifically to the field of interest. General education courses will be taken as the student continues on to the certificate or associate degree level.

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

Kathy Taylor	989-275-5000, extension 237
FLEX Lab	989-275-5000, extension 213

# MEDICAL BILLING AND CODING

Certificate of Completion (CMBC0)

**Minimum Credits: 35**

## 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.

Course	Title	Cr			
<b>Semester I</b>			<b>Semester II</b>		
ALH-10101	Medical Terminology	2	ALH-10801	Pathology	3
ALH-11201	Medical Ethics & Law	1	OIS-10600	Intro to Health Information Systems	3
BIO-10701	Essentials of Anatomy &	3	OIS-10401/02/03 <b>or</b>	Keyboarding I – A/B/C <b>OR</b>	3
BIO-10702	Physiology w/lab	1	OIS-18201/02/03	Word Processing I – A/B/C	
ENG-10000	Writing Lab (if required)	0-1	OIS-11300	Medical Coding I	3
ENG-10303	English Composition I w/Computers	3	OIS-11500	Medical Insurance Billing	3
CIS-10500	Introduction to Computers	3			
<b>Semester III</b>					
OIS-21300	Medical Coding II	3	&	OIS-24109	Internship – Medical Billing/Coding
					4

# LEGAL SECRETARY

Associate in Applied Science (DLES1)

**Minimum Credits: 61**

## 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.

Course	Title	Cr			
<b>Semester I (Fall)</b>			<b>Semester III (Fall)</b>		
ALH-10101	Medical Terminology	2	BUS-21500	Legal Environment of Business	3
CIS-10500	Introduction to Computers	3	HUM-20500	The Individual & Society	3
ENG-10303	English Composition I w/Computers	3	MTH-10100	Finite Math <b>or</b> higher	4
ENG-10000	Writing lab (if required)	0-1	OIS-17000	Legal Terminology & Transcription	3
OIS-18201/02/03	Word Processing I – A/B/C	3	OIS-21500 <b>or</b>	Desktop Publishing for the Office <b>or</b>	3
OIS-20501/02/03	Records Management-A/B/C	3	CIS-17001	Microsoft Office	
<b>Semester II (Winter)</b>			<b>Semester IV (Winter)</b>		
BUS-10100	Introduction to Business	3	OIS-10500	Business Correspondence	3
OIS-11201 <b>or</b>	Business Calculations <b>OR</b>		OIS-21400	Keyboarding III	3
ACC-12500	Computer Accounting/QuickBooks	3-4	OIS-22500	Legal Office Procedures	3
OIS-11401/02/03	Keyboarding II - A/B/C	3	OIS-24102	Internship – Legal Secretary	3
OIS-19001/02/03	Machine Transcription - A/B/C	3	xxx-xxxxx	Science course with lab	4-5
OIS-22200	Word Processing II-Word	3			

# MEDICAL CLERK

Certificate of Completion (CMOA1)

Minimum Credits: 35

## 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.

Course	Title	Cr	Course	Title	Cr
<b>Semester I (Fall)</b>			<b>Semester II (Winter)</b>		
ALH-10101	Medical Terminology	2	ALH-11201	Medical Ethics & Law	1
CIS-10500	Introduction to Computers	3	OIS-10500	Business Correspondence	3
ENG-10000	Writing Lab (if required)	0-1	OIS-10701/02/03	Medical Office Transcription-A/B/C	3
ENG-10303	English Composition I w/Computers	3	OIS-20501/02/03	Records Management-A/B/C	3
OIS-11401/02/03	Keyboarding II-A/B/C	3	OIS-20902	Intro to Medical Billing & Coding	2
OIS-18201/02/03	Word Processing I – A/B/C	3	OIS-21100	Medical Office Procedures	3
<b>Semester III (Summer)</b>					
OIS-11201 ACC-12500	Business Calculations <b>OR</b> Computer Accounting/QuickBooks	3-4	OIS-24108	Internship – Medical Clerk	3

# MEDICAL SECRETARY

Associate in Applied Science (DMES1)

Minimum Credits: 60

## 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.

Course	Title	Cr	Course	Title	Cr
<b>Semester I (Fall)</b>			<b>Semester III (Fall)</b>		
ALH-10101	Medical Terminology	2	HUM-20500	The Individual & Society	3
ENG-10000	Writing Lab (if required)	0-1	OIS-10500	Business Correspondence	3
ENG-10303	English Composition I w/Computers	3	OIS-20800	Medical Keyboarding	3
OIS-10600	Intro to Health Information Systems	3	OIS-22200	Word Processing II-Word	3
OIS-10701/02/03	Medical Office Transcription-A/B/C	3	MTH-10100	Finite Math or higher	4
OIS-18201/02/03	Word Processing I – A/B/C	3	<b>Semester IV (Winter)</b>		
<b>Semester II (Winter)</b>			ALH-11201	Medical Ethics & Law	1
BIO-10701 BIO-10702	Essentials of Anatomy & Physiology w/lab	3 1	OIS-11201 <b>or</b> ACC-12500	Business Calculations <b>OR</b> Computer Accounting/QuickBooks	3-4
CIS-10500	Introduction to Computers	3	OIS-20902	Intro to Medical Billing & Coding	2
OIS-10801/02/03	Medical Transcription I – A/B/C	3	OIS-21100	Medical Office Procedures	3
OIS-11401/02/03	Keyboarding II-A/B/C	3	OIS-22100	Office Pharmacology	2
OIS-20501/02/03	Records Management-A/B/C	3	OIS-24103	Internship – Medical Secretary	3

# MEDICAL TRANSCRIPTION

Certificate of Completion (CMET0)

Minimum Credits: 31

## 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.

Course	Title	Cr	Course	Title	Cr
<b>Semester I</b>			<b>Semester II</b>		
ENG-10303	English Composition I w/Computers	3	BIO-10701	Essentials of Anatomy &	3
ENG-10000	Writing Lab (if required)	0-1	BIO-10702	Physiology w/lab	1
OIS-18201/02/03	Word Processing I – A/B/C	3	ALH-10801	Pathology	3
ALH-10101	Medical Terminology	2	OIS-10801/02/03	Medical Transcription I – A/B/C	3
OIS-10701/02/03	Medical Office Transcription-A/B/C	3	OIS-22100	Office Pharmacology	2
ALH-11201	Medical Ethics & Law	1			
<b>Semester III</b>					
OIS-20601/02/03	Medical Transcription II – A/B/C	3	OIS-24106	Internship – Medical Transcription	4

# MEDICAL TRANSCRIPTION

Associate in Applied Science (DMET0)

Minimum Credits: 60

## 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.

Course	Title	Cr	Course	Title	Cr
<b>Semester I (Fall)</b>			<b>Semester III (Fall)</b>		
ENG-10303	English Composition I w/Computers	3	OIS-20800	Medical Keyboarding	3
ENG-10000	Writing Lab (if required)	0-1	OIS-20601/02/03	Medical Transcription II – A/B/C	3
OIS-18201/02/03	Word Processing I – A/B/C	3	OIS-10500	Business Correspondence	3
ALH-10101	Medical Terminology	2	MTH-10100	Finite Math or higher	4
OIS-10600	Intro to Health Information Systems	3	xxx-xxxxx	Elective with advisor approval	0-1
OIS-10701/02/03	Medical Office Transcription-A/B/C	3			
<b>Semester II (Winter)</b>			<b>Semester IV (Winter)</b>		
OIS-11401/02/03	Keyboarding II-A/B/C	3	OIS-22100	Office Pharmacology	2
BIO-10701	Essentials of Anatomy & Physiology	3	ALH-10801	Pathology	3
BIO-10702	w/lab	1	ALH-11201	Medical Ethics & Law	1
CIS-10500	Introduction to Computers	3	OIS-20701/02/03	Medical Transcription III – A/B/C	3
OIS-10801/02/03	Medical Transcription I – A/B/C	3	HUM-20500	The Individual & Society	3
OIS-20501/02/03	Records Management-A/B/C	3	OIS-24106	Internship – Medical Transcription	4

# OFFICE ASSISTANT

Certificate of Completion (COAS0)

**Minimum Credits: 30**

**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.

Course	Title	Cr
<b>Semester I (Fall)</b>		
ENG-10000	Writing Lab (if required)	0-1
ENG-10303	English Composition I w/ Computers	3
OIS-10401/02/03 <b>or</b> OIS-11401/02/03	Keyboarding I – A/B/C <b>OR</b> Keyboarding II – A/B/C	3
OIS-11201 <b>or</b> ACC-12500	Business Calculations <b>OR</b> Computer Accounting/QuickBooks	3-4
OIS-xxxxx	OIS Elective w/advisor approval	3
xxx-xxxxx	General Elective w/advisor approval	3

Course	Title	Cr
<b>Semester II (Winter)</b>		
CIS-10500	Introduction to Computers	3
OIS-10500	Business Correspondence	3
OIS-11401/02/03 <b>or</b> OIS-21400	Keyboarding II – A/B/C <b>OR</b> Keyboarding III	3
OIS-xxxxx	OIS elective/advisor approval	3
xxx-xxxxx	General elective/advisor approval	3

# ADMINISTRATIVE ASSISTANT

Associate in Applied Science (DADA0)

**Minimum Credits: 60**

## 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.

Course	Title	Cr
<b>Semester I (Fall)</b>		
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 required)	0-1
OIS-20501/02/03	Records Management-A/B/C	3
OIS-18201/02/03	Word Processing I – A/B/C	3
<b>Semester II (Winter)</b>		
HUM-20500	The Individual & Society	3
MTH-10100	Finite Math <b>or</b> higher	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
<b>Semester III (Fall)</b>		
BUS-21500	Legal Environment of Business	3
OIS-10500	Business Correspondence	3
OIS-21400	Keyboarding III	3
OIS-21500	Desktop Publishing for the Office	3
xxx-xxxxx	Science course with lab	4-5
<b>Semester IV (Winter)</b>		
CIS-17001	Microsoft Office	3
OIS-11201 <b>or</b> ACC-12500	Business Calculations <b>OR</b> Computer Accounting/QuickBooks	3-4
OIS-21000	Office Procedures	3
OIS-24101	Internship – Administrative Assistant	3
OIS- <b>or</b> CIS-	OIS <b>or</b> CIS Elective	0-1



## WORD PROCESSING SPECIALIST

Certificate of Completion (CWPS0)

**Minimum Credits: 30**

### 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.

Course	Title	Cr
<b>Semester I (Fall)</b>		
CIS-10500	Introduction to Computers	3
ENG-10303	English Composition I w/Computers	3
ENG-10000	Writing Lab (if required)	0-1
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
<b>Semester II (Winter)</b>		
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**

### 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.

Course	Title	Cr
<b>Semester I (Fall)</b>		
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 required)	0-1
OIS-11201	Business Calculations <b>OR</b>	
ACC-12500	Computer Accounting/QuickBooks	3-4
OIS-18201/02/03	Word Processing I – A/B/C	3
<b>Semester II (Winter)</b>		
MTH-10100	Finite Math <b>or</b> higher	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
<b>Semester III (Fall)</b>		
BUS-21500	Legal Environment of Business	3
CIS-17001	Microsoft Office	3
HUM-20500	The Individual & Society	3
OIS-21500	Desktop Publishing for the Office	3
xxx-xxxxx	Science course with lab	4-5
<b>Semester IV (Winter)</b>		
CIS-xxxxx	CIS elective	0-1
OIS-10500	Business Correspondence	3
OIS-21000	Office Procedures	3
OIS-21400	Keyboarding III	3
OIS-24107	Internship – Advanced Word	3

**Associate in Applied Science**

- Plant Science – Horticulture
- Plant Science – Turfgrass
- Plant Science – Landscape and Nursery

**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: \_\_\_\_\_

**Focus**

These courses are the required focused courses in this program. They are the heart of the program. Some of the courses listed may have prerequisites (which are listed in the course description section of the catalog). Students also need to complete the courses listed in the WRAP section (some special certificate and certificate programs may not have WRAP courses listed). Therefore, students should consult advisors for assistance in planning course schedules.

**WRAP**

Kirtland Community College strives to prepare students with a solid general education background, which is called WRAP— Well Rounded Academic Program. Students pursuing a special certificate begin by focusing on courses that pertain specifically to the field of interest. General education courses will be taken as the student continues on to the certificate or associate degree level.

For more information, please contact Science.  
Denise Kemp 989-275-5000, extension 391

# PLANT SCIENCE

Associate in Applied Science: Horticulture (DPLS0), Turfgrass (DPLS1) or Landscape/Nursery (DPLS2) **Minimum Credits: 60**

**Introduction:** This cooperative plant science program between Kirtland, Michigan State University College of Agriculture, and the NMC University Center in Traverse City leads to certification in one of the following: commercial horticulture operations, commercial turfgrass operations, or landscape and nursery operations. Students take core curriculum courses and required and elective courses at Kirtland and required and elective MSU courses at the University Center in Traverse City. Students enroll simultaneously at Kirtland and MSU.

## Courses to be taken at Kirtland Community College

Subject Area	Credit	Kirtland Courses
Communications	6-7	<ul style="list-style-type: none"> <li>• COM-10000 – Written &amp; Oral Communication (3) <b>OR</b></li> <li>• *ENG-10403 – English Composition II (3) <b>AND</b> SPE-10500 – Fund of Speech (3) <b>OR</b></li> <li>• *ENG-10403 – English Composition II (3) <b>AND</b> SPE-11400 – Interpersonal Communication (3)</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)</li> </ul>
Humanities & Social Science	6	<ul style="list-style-type: none"> <li>• HIS-20100, US History to 1865 (3) <b>OR</b> HIS-20200, US History Since 1865 (3)</li> <li>• ECO-20100, Principles of Economics/MACRO <b>OR</b> ECO-20200, Principles of Economics/MICRO (3)</li> </ul>
Life Skills	4	<ul style="list-style-type: none"> <li>• CAR-10300 – Career Development Skills (1)</li> <li>• CIS-10500 – Introduction to Computers (3)</li> </ul>
Math/Natural Science	12-13	<ul style="list-style-type: none"> <li>• BIO-20200 – General Botany (4)</li> <li>• CHE-10003/04, Chemical Science w/lab (3/1) <b>OR</b> *CHE-10101/02, General Chemistry I w/lab (4/1)</li> <li>• MTH-10100 – Finite Math (4) <b>or</b> higher excluding MTH-20500 or 20600</li> </ul>

## Courses To Be Taken at Michigan State University – Traverse City

Course	Title	Cr	Course	Title	Cr
HRT-215	Landscape Industry Seminar	1	CSS 210	Fund of Soil & Landscape Science	3
PLP-205	Plant Diseases and their Pathogens	3	HRT 213	Landscape Maintenance	2
ENT-110	Applied Entomology/Ornamentals/turf	3	HRT 218	Landscape Irrigation	3

Select ONE of the three following options:

### COMMERCIAL HORTICULTURE OPERATIONS

Course	Title	Cr	Course	Title	Cr
AT 291	Integrated Pest Management	1	HRT 208	Pruning/Training Systems/Horticulture	3
AT 293	Professional Internship in Ag/Tech	3-6	RD 201	Land & Environmental Issues in Law	3

and seven to nine elective credits from the following list:

HRT 291	Current Issues/Commercial	2-4	CSS 181	Fertilizer/Pesticide Application Tech	3
HRT 290	Independent Study/Fruit IPM	2-4	HRT 211	Landscape Plants I	3

### COMMERCIAL TURFGRASS OPERATIONS

Course	Title	Cr	Course	Title	Cr
AT 293	Professional Internship in Ag/Tech	3-6	CSS 232	Introduction to Turfgrass Mgmt	3
		2	RD 201	Land & Environmental Issues	3

and seven to nine elective credits from the following list:

HRT 291	Current Issues in Commercial	2-4	CSS 242	Athletic Field Maintenance	3
HRT 214	Turf & Landscape Business Mgmt	2	HRT 111	Landscape Planning & Design	3
CSS 181	Fertilizer/Pesticide Application Tech	3	HRT 211	Landscape Plants I	3

### LANDSCAPE AND NURSERY

Course	Title	Cr	Course	Title	Cr
AT 293	Professional Internship in Ag/Tech	3-6	HRT 211	Landscape Plants I	3
HRT 111	Landscape Planning & Design	3	HRT 212	Landscape Plants II	3

and two to five elective credits from the following list:

CSS 181	Fertilizer/Pesticide Application Technology	3	HRT 214	Turf & Landscape Business Management	2
CSS 232	Introduction to Turfgrass Management	3	HRT 290	Independent Study/Fruit IPM	2-4
HRT 208	Pruning & Training Systems in Horticulture	3	RD 201	Land & Environmental Issues	3

**Associate in Applied Science**

- Technology Management

**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.*

- |  |   |
|--|---|
| <input type="checkbox"/> ENG-10000 Writing Lab (if required) | <input type="checkbox"/> Mathematics: _____ |
| <input type="checkbox"/> English: _____                      | <input type="checkbox"/> Reading: _____     |

**Focus**

These courses are the required focused courses in this program. They are the heart of the program. Some of the courses listed may have prerequisites (which are listed in the course description section of the catalog). Students also need to complete the courses listed in the WRAP section (some special certificate and certificate programs may not have WRAP courses listed). Therefore, students should consult advisors for assistance in planning course schedules.

**WRAP**

Kirtland Community College strives to prepare students with a solid general education background, which is called WRAP— Well Rounded Academic Program. Students pursuing a special certificate begin by focusing on courses that pertain specifically to the field of interest. General education courses will be taken as the student continues on to the certificate or associate degree level.

For more information, please contact the Technology Management advisor.  
 Don Dyer 989-275-5000, extension 231

# TECHNOLOGY MANAGEMENT

ASSOCIATE IN APPLIED SCIENCE (DETC0)

Minimum Credits: 62

## 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*

COURSE	TITLE	Cr
CIS-10500	Introduction to Computers	3
ENG-10000	Writing Lab (if required)	0-1
ENG-10303	English Composition I with Computers	3
ENG-10403 <b>or</b> ENG-10601 <b>or</b> ENG-10602	English Composition II with Computers <b>or</b> Technical Writing <b>or</b> Technical Writing with Computers	3
Humanities Elective	(Chosen from ART, Language, HIS, HUM, Journalism, LIT, MUS, PHL, THE)	3
MTH-10100 <b>or</b> MTH-12000 (or higher)	Finite Math <b>or</b> Intermediate Algebra (or higher)	4
Science Elective w/lab	(Chosen from BIO, CHE, GEL, PHY)	4-5
Social Science Elective	(Chosen from ANT, ECO, GEO, POL, PSY, SOC)	3-4
SPE-10500 <b>or</b> SPE-11400	Fundamentals of Speech <b>or</b> Intro to Interpersonal & Public Communication	3
<b>General Education:</b>		<b>26-29</b>

### *Leadership/Management*

Military credit for Supervision, Management or Leadership and/or Kirtland credit from the following course options:

*(Select two courses:)*

BUS-10100	Introduction to Business	3
BUS-21000	Principles of Management	3
BUS-24500	Personnel Management	3
<b>Leadership/Management:</b>		<b>6</b>

### *Technical Elective Courses*

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.

<b>Technical Electives:</b> Accounting, Allied Health, Automotive Technology, Business, Carpentry, Computer Aided Drafting, Computer Information Systems, Criminal Justice, Electrical Technology, Heating/Ventilation/AC/Refrigeration, Industrial Maintenance, Machine Tool Technology, Manufacturing Processes Technology, Marketing, Nursing, Office Information Systems, Outdoor Power Equipment, and Welding.	<b>Technical Electives:</b>	<b>15</b>
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### *General Elective Courses*

Any 10000-level or higher course can be used. Up to three credits in Physical Education courses can be applied toward degree requirements.	<b>General Electives:</b>	<b>15</b>
<b>Total Credit Hours:</b>		<b>62-64</b>

**Associate**

- Arts
- Business Administration
- Computers – Computer Science
- Computers – Information Systems
- Criminal Justice – Generalist
- Fine Arts – Creative Writing
- Fine Arts – Studio Art
- Fine Arts – Theatre Arts
- Science – Life Science
- Science – Physical Science

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**PARTNERSHIP PROGRAMS**

**Associate in Applied Science**

- Radiography

**Bachelor of Science**

***Computers***

For an updated list of partnership schools, go to:

<http://services.kirtland.edu/cis/Transfer.htm>

- Computer Information Systems – Ferris or Saginaw Valley
- Computer Science – Central Michigan University, Ferris, or Saginaw Valley
- Digital Communications – Franklin
- Management Information Science – Franklin

**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.*

- |   |  |
|---|--|
| <input type="checkbox"/> ENG-10000 Writing Lab (if required)<br><input type="checkbox"/> English: _____ | <input type="checkbox"/> Mathematics: _____<br><input type="checkbox"/> Reading: _____ |
|---|--|

**Focus**

These courses are the required focused courses in this program. They are the heart of the program. Some of the courses listed may have prerequisites (which are listed in the course description section of the catalog). Students also need to complete the courses listed in the WRAP section (some special certificate and certificate programs may not have WRAP courses listed). Therefore, students should consult advisors for assistance in planning course schedules.

**WRAP**

Kirtland Community College strives to prepare students with a solid general education background, which is called WRAP— Well Rounded Academic Program. Students pursuing a special certificate begin by focusing on courses that pertain specifically to the field of interest. General education courses will be taken as the student continues on to the certificate or associate degree level.

# ASSOCIATE IN ARTS

(DLIB0)

**Minimum Credits: 60**

## 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.

**Focus:** Students pursuing a transfer degree will concentrate primarily on meeting general education requirements at Kirtland. 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
--- ---	Electives – Select any 100-level or higher courses. Three credits in Physical Education courses can be used.	8-13

## WRAP

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3)*</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)*</li> <li>• ENG-10403 – English Composition II (3)*</li> <li>• SPE-10500 – Fund of Speech (3)* <b>OR</b> SPE-11400 – Interpersonal Communication (3)*</li> </ul>
Humanities (Maximum of two courses per subject area)	11-12	<ul style="list-style-type: none"> <li>• Select 2-3 credits from Art, Music, or Theater.*</li> <li>• Select 3 credits from Journalism, Languages, or Literature.*</li> <li>• History elective (3)*</li> <li>• Philosophy elective (3)*</li> </ul>
Social Science	12-13	<ul style="list-style-type: none"> <li>• POL-10100 – American Government (3)*</li> <li>• GEO-10000 – World Geography (4)* <b>OR</b> POL-20000 – International Relations (3)* <b>OR</b> POL-20100 – Comparative Government* (3)</li> <li>• ANT-10100 – Cultural Anthropology (3)* <b>OR</b> SOC-10100 – Intro to Sociology (3)* <b>OR</b> PSY-10100 – Introduction to Psychology (3)*</li> <li>• Select an additional course from ANT, ECO, GEO, POL, PSY, or SOC (3)</li> </ul>
Math/Natural Science	12-14	<ul style="list-style-type: none"> <li>• MTH-12000 – Intermediate Algebra (4)* or higher</li> <li>• Select two science courses with a lab from BIO, CHE, GEL, or PHY (8-10)*</li> </ul>

\* Courses that meet General Education Core Competencies

# ASSOCIATE IN BUSINESS ADMINISTRATION

(DABA1)

**Minimum Credits: 60**

## 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.

## Focus

Course	Title	Cr	Course	Title	Cr
ACC-12100	Accounting Principles I	4	ACC-12200	Accounting Principles II	4

### and 5 - 8 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-20300	Internet Marketing	3
BUS-21500	Legal Environment of Business	3	MKT-20400	Advertising	3
BUS-24000	Financial Management	3	MKT-21000	Market Research	3

## WRAP

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3)*</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)*</li> <li>• ENG-10403 – English Composition II (3)*</li> <li>• SPE-10500 – Fund. of Speech (3)* <b>OR</b> SPE-11400 – Interpersonal Communication (3)*</li> </ul>
Humanities	8-9	<ul style="list-style-type: none"> <li>• Select 2-3 credits from Art, Music, or Theater.*</li> <li>• Select 3 credits from Journalism, Languages, or Literature.*</li> <li>• Any HIS <b>OR</b> PHL Elective (3)*</li> </ul>
Social Science	12	<ul style="list-style-type: none"> <li>• POL-10100 –American Gov't (3)* <b>OR</b> POL -10500 –American Gov't w/Humanities* (3)</li> <li>• Any ANT, Anthropology <b>OR</b> SOC, Sociology, <b>OR</b> PSY, Psychology Elective (3)*</li> <li>• ECO-20100 – Principles of Economics (Macroeconomics) (3)</li> <li>• ECO-20200 – Principles of Economics (Microeconomics) (3)</li> </ul>
Math & Natural Science	12-13	<ul style="list-style-type: none"> <li>• MTH-12100 – College Algebra with Trigonometry (4)* <b>or</b> higher</li> <li>• MTH-20600 – Statistics (4)</li> <li>• Any science course with a lab (4)*</li> </ul>



# ASSOCIATE IN COMPUTERS

Computer Science (DACP0)

Minimum Credits: 60

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

Winter Semester	
ENG-10403 English Composition II w/Computers	3
BIO-10100 or BIO-20100, or BIO-20200 or BIO-21000, or BIO-213 00 (See CIS advisor for recommended course)	4
SPE10500 Fundamentals of Speech or SPE-11400 - Interpersonal Communications	3
MTH-13000 or higher or elective course if math sequence is complete (excluding MTH-205 & MTH-206)	2-4
PSY-10100 or SOC-10100	3

## Year 2:

Fall Semester	
CIS-27001 Programming I	3
POL-10100 American Government	3
Humanities Elective – Language or Literature (see CIS advisor for course list)	3
GEO-100, POL-200, or POL-201	3-4
MTH-14000 or higher or elective course if math sequence is complete (excluding MTH-205 & MTH-206)	3-4

Winter Semester	
CIS-27101 Programming II	4
HIS-105, 106, 201, 202, or 203	
Humanities Elective – ART, MUS, or THE	2-3
Elective course (listed below)	2-3
MTH-22000 or higher or elective course if math sequence is complete (excluding MTH-205 & MTH-206)	3-4

## Electives:

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**

## 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	
ENG-10303 English Composition I w/computers	3
ENG-10000 Writing Lab (if required)	0-1
CIS-10500 Introduction to Computers	3
Chemistry w/lab	4-5
MTH-12000 Intermediate Algebra <b>or</b> higher <b>or</b> elective course if math sequence is complete (excluding MTH-205 & MTH-206)	4

Winter Semester	
ENG-10403 English Composition II w/computers	3
BIO-10100 <b>or</b> BIO-20100, <b>or</b> BIO-20200 <b>or</b> BIO-21000, <b>or</b> BIO-213 00	4
SPE10500 Fundamentals of Speech <b>or</b> SPE-11400 - Interpersonal Communications	3
MTH-13000 College Algebra <b>or</b> elective course if math sequence is complete (excluding MTH-205 & MTH-206)	2-4
PSY-10100 <b>or</b> SOC-10100	3

## Year 2:

Fall Semester	
CIS-27001 Programming I	3
POL-10100 American Government	3
Humanities Elective – Language <b>or</b> Literature (see CIS advisor for course list)	3
GEO-100, POL-200, <b>or</b> POL-201	3-4
Elective course (listed below)	3-4

Winter Semester	
CIS-27101 Programming II	4
HIS-105, 106, 201, 202, <b>or</b> 203	3
Humanities Elective – ART, MUS, <b>or</b> THE	2-3
Elective course (listed below)	2-3
Elective course (listed below)	3-4

## Electives:

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

# COMPUTER INFORMATION SYSTEMS

PARTNERSHIP PROGRAM

Bachelor of Science

**Ferris State University**  
(231) 591-2434  
[CISD@ferris.edu](mailto:CISD@ferris.edu)

**Kirtland Community College**  
Lisa Balbach, [balbachl@kirtland.edu](mailto:balbachl@kirtland.edu)  
989-275-5000, extension 414

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](http://services.kirtland.edu/cis/Transfer/Ferris_CIS_transfer.htm). Students should contact those listed for specific program information.

**Saginaw Valley State University**  
Randall Hock, [hock@svsu.edu](mailto:hock@svsu.edu)  
989-964-4343

**Kirtland Community College**  
Lisa Balbach, [balbachl@kirtland.edu](mailto:balbachl@kirtland.edu)  
989-275-5000, extension 414

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](http://services.kirtland.edu/cis/Articulation/SVSU_CIS_Articulation.htm)

# COMPUTER SCIENCE

PARTNERSHIP PROGRAM

Bachelor of Science

**Central Michigan University**  
Marcie Otteman, [ottemlmm@cmich.edu](mailto:ottemlmm@cmich.edu) or [Marcie.M.Otteman@cmich.edu](mailto:Marcie.M.Otteman@cmich.edu)  
989-774-3076

**Kirtland Community College**  
Lisa Balbach, [balbachl@kirtland.edu](mailto:balbachl@kirtland.edu)  
989-275-5000, extension 414

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>

**Franklin University**  
Bob Morris, [morrisb@franklin.edu](mailto:morrisb@franklin.edu)  
1-888-341-6237 or 614-651-4471

**Kirtland Community College**  
Lisa Balbach, [balbachl@kirtland.edu](mailto:balbachl@kirtland.edu)  
989-275-5000, extension 414

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](http://services.kirtland.edu/cis/Articulation/Franklin_CS_Articulation.htm). Students should contact those listed for specific program information.

(Continued on next page)

**Saginaw Valley State University**  
Randall Hock, [hock@svsu.edu](mailto:hock@svsu.edu)  
989-964-4343

**Kirtland Community College**  
Lisa Balbach, [balbachl@kirtland.edu](mailto:balbachl@kirtland.edu)  
989-275-5000, extension 414

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](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

PARTNERSHIP PROGRAM

Bachelor of Science

**Franklin University**  
Bob Morris, [morrisb@franklin.edu](mailto:morrisb@franklin.edu)  
1-888-341-6237 or 614-651-4471

**Kirtland Community College**  
Lisa Balbach, [balbachl@kirtland.edu](mailto:balbachl@kirtland.edu)  
989-275-5000, extension 414

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](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/>.

## MANAGEMENT INFORMATION SCIENCE (MIS)

PARTNERSHIP PROGRAM

Bachelor of Science

**Franklin University**  
Bob Morris, [morrisb@franklin.edu](mailto:morrisb@franklin.edu)  
1-888-341-6237 or 614-651-4471

**Kirtland Community College**  
Lisa Balbach, [balbachl@kirtland.edu](mailto:balbachl@kirtland.edu)  
989-275-5000, extension 414

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](http://services.kirtland.edu/cis/Articulation/Franklin_MIS_Articulation.htm). Students should contact those listed for specific program information.

# ASSOCIATE IN CRIMINAL JUSTICE - GENERALIST

(DCJG0)

**Minimum Credits: 60**

## 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.

## Focus

Course	Title	Cr
CJS-10000	Introduction to Criminal Justice	3
CJS-24000 SOC-24000	Criminology <b>OR</b> Criminology <b>OR</b> Substitution approved by advisor	3

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

## WRAP

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3)*</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)*</li> <li>• ENG-10403 – English Composition II (3)*</li> <li>• SPE-10500 – Fund. of Speech (3)* <b>OR</b> SPE-11400 – Interpersonal Communication (3)*</li> </ul>
Humanities	11-12	<ul style="list-style-type: none"> <li>• Select 2-3 credits from Art, Music, or Theater.*</li> <li>• Select 3 credits from Journalism, Languages, or Literature. *</li> <li>• HIS-10500 – World Societies to 1500 (3)* <b>OR</b></li> <li>  HIS-10600 – World Societies Since 1500 (3)* <b>OR</b></li> <li>  HIS-20100 – US History to 1865 (3)* <b>OR</b></li> <li>  HIS-20200 – US History Since 1865 (3)* <b>OR</b></li> <li>  HIS-20300 – Michigan History (3)*</li> <li>• PHL-20100 – Intro to Philosophy (3)* <b>OR</b> PHL-21000 – Intro to Ethics (3)*</li> </ul>
Social Science	15-16	<ul style="list-style-type: none"> <li>• POL-10100 – American Government (3)*</li> <li>• GEO-10000 – World Geography (4)* <b>OR</b></li> <li>  POL-20000 – International Relations (3)* <b>OR</b></li> <li>  POL-20100 – Comparative Government* (3)</li> <li>• SOC-10100 – Introduction to Sociology (3)*</li> <li>• PSY-10100 – Introduction to Psychology (3)*</li> <li>• PSY-20200 – Abnormal Psychology (3)</li> </ul>
Math/Natural Science	12-14	<ul style="list-style-type: none"> <li>• MTH-12000 – Intermediate Algebra (4)* <b>or</b> higher (excluding MTH-20500 and MTH-20600)</li> <li>• Select two science courses with a lab from BIO, CHE, GEL, or PHY (8-10)*</li> </ul>

\* 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, Studio Art (DAFA1), or Theatre Arts (DAFA2)

**Minimum Credits: 60**

## Introduction

The Associate in Fine Arts degree is designed for students with an interest in studio arts (such as sculpture or painting), creative writing, or theatre arts. 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 the college catalog.

**Focus:** select ONE of the following options:

### CREATIVE WRITING

Course	Title	Cr	Creative Writing elective options		
ENG-29100	Poetry Workshop I	3	ENG-21500 – Creative Writing (3)		
ENG-29200	Fiction Workshop I		ENG-29100 or 29300 – Poetry Workshop I (3) or P.W. II (3)		
ENG- -----	Creative Writing elective options	11-15	ENG-29200 or 29400 – Fiction Workshop I (3) or F.W. II (3)		
STUDIO ART					
ART-28000	Portfolio	3	ART- -----	Any ART Electives (recommendation: see Studio Art advisor for guidance)	10-14
CIS-21900	MacIntosh O.S. X	1			
THEATRE ARTS					
THE-12000	Introduction to Theatre	3	THE- -----	Any THE Electives (recommendation: see Theatre advisor for guidance)	8-12
THE-27000	Audition/Resume Workshop	3			

## WRAP

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3)*</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)*</li> <li>• ENG-10403 – English Composition II (3)*</li> <li>• SPE-10500 – Fund of Speech (3)* <b>OR</b> SPE-11400 – Interpersonal Communication (3)*</li> </ul>
Humanities	9	<ul style="list-style-type: none"> <li>• Select 3 credits from Art, Music, or Theater.*</li> <li>• Select 3 credits from Journalism, Languages, or Literature.*</li> <li>• HIS Elective <b>OR</b> ART-10000 – Art History I (3) <b>OR</b> ART-10103 – Art History II (3)</li> </ul>
Social Science	9-10	<ul style="list-style-type: none"> <li>• POL-10100 – American Government (3)*</li> <li>• GEO-10000 – World Geography (4)* <b>OR</b> POL-20000 – International Relations (3)* <b>OR</b> POL-20100 – Comparative Government* (3)</li> <li>• PSY-10100 – Introduction to Psychology (3)* <b>OR</b> SOC-10100 – Intro to Sociology (3)*</li> </ul>
Math/Natural Science	12-14	<ul style="list-style-type: none"> <li>• MTH-12000 – Intermediate Algebra (4)* or higher excluding MTH-20500 or MTH-20600</li> <li>• Select two science courses with a lab from BIO, CHE, GEL, or PHY (8-10)*</li> </ul>

\* Courses that meet General Education Core Competencies

# ASSOCIATE IN SCIENCE

Life Science (DASC1) or Physical Science (DASC2)

**Minimum Credits: 60**

## 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.

## WRAP

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Communications	12-13	<ul style="list-style-type: none"> <li>• CIS-10500 – Introduction to Computers (3)*</li> <li>• ENG-10000 – Writing Lab (1) (if required)</li> <li>• ENG-10303 – English Composition I (3)*</li> <li>• ENG-10403 - English Composition II (3)*</li> <li>• SPE-10500 – Fund of Speech (3)* <b>OR</b> SPE-11400 – Interpersonal Communication (3)*</li> </ul>
Humanities	11-12	<ul style="list-style-type: none"> <li>• Select 2-3 credits from Art, Music, or Theater. *</li> <li>• Select 3 credits from Journalism, Languages, or Literature. *</li> <li>• HIS-10500 – World Societies to 1500 (3)* <b>OR</b></li> <li>  HIS-10600 – World Societies Since 1500 (3)* <b>OR</b></li> <li>  HIS-20100 – US History to 1865 (3)* <b>OR</b></li> <li>  HIS-20200 – US History Since 1865 (3)* <b>OR</b></li> <li>  HIS-20300 – Michigan History (3)*</li> <li>• PHL-20100 – Introd to Philosophy (3)* <b>OR</b> PHL-21000 – Intro to Ethics (3)*</li> </ul>
Social Science	9-10	<ul style="list-style-type: none"> <li>• POL-10100 – American Government (3)*</li> <li>• GEO-10000 – World Geography (4)* <b>OR</b></li> <li>  POL-20000 – International Relations (3)* <b>OR</b></li> <li>  POL-20100 – Comparative Government* (3)</li> <li>• ANT-10100 – Cultural Anthropology (3)* <b>OR</b> SOC-10100 – Intro to Sociology (3)* <b>OR</b></li> <li>  PSY-10100 – Introduction to Psychology (3)*</li> </ul>

(continued)

**Select ONE of the following options:**

<p>Math/Natural Science</p>	<p>21-26</p>	<p><b><u>Life Science Option</u></b></p> <ul style="list-style-type: none"> <li>• Select two of the following mathematics courses:  MTH-18001 – Pre-Calculus (4) <b>OR</b>  MTH-20600 – Application in Statistics (4) <b>OR</b>  MTH 22002 – Calculus I (4) <b>OR</b>  MTH 22102 – Calculus II (4) <b>OR</b>  MTH-22202 – Calculus III (4)</li> <li>• BIO-10100 – General Biology (4)</li> <li>• BIO-20100 – General Zoology (4) <b>OR</b>  BIO-20200 – General Botany (4) <b>OR</b>  BIO-21000 – Microbiology (4) <b>OR</b>  BIO-21300 – Nature Study (4)</li> <li>• Select either a Chemistry or Physics sequence:  CHE-10101/02 – General Chemistry I (4) &amp; Lab (1) <b>AND</b>  CHE-10201/02 – General Chemistry II (4) &amp; Lab (1) <b>OR</b>  PHY-20101/02 – General Physics I (4) &amp; Lab (1) <b>AND</b>  PHY-20201/02 – General Physics II (4) &amp; Lab (1) <b>OR</b>  PHY-22101/02 – College Physics I (4) &amp; Lab (1) <b>AND</b>  PHY-22201/02 – College Physics II (4) and Lab (1)</li> </ul>
<p>Math/Natural Science</p>		<p><b><u>Physical Science Option</u></b></p> <ul style="list-style-type: none"> <li>• Select two of the following mathematics courses:  MTH-18001 – Pre-Calculus (4) <b>OR</b>  MTH 22002 – Calculus I (4) <b>OR</b>  MTH 22102 – Calculus II (4) <b>OR</b>  MTH-22202 – Calculus III (4)  (MTH-20500 or MTH-20600 cannot be counted for credit.)</li> <li>• Select either a Chemistry or Physics sequence:  CHE-10101/02 – General Chemistry I (4) &amp; Lab (1) <b>AND</b>  CHE-10201/02 – General Chemistry II (4) &amp; Lab (1) <b>OR</b>  PHY-20101/02 – General Physics I (4) &amp; Lab (1) <b>AND</b>  PHY-20201/02 – General Physics II (4) &amp; Lab (1) <b>OR</b>  PHY-22101/02 – College Physics I (4) &amp; Lab (1) <b>AND</b>  PHY-22201/02 – College Physics II (4) and Lab (1)</li> <li>• Select any two 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) &amp; Lab (1)  CHE-10201/02 – General Chemistry II (4) &amp; Lab (1)  GEL-10500 – Physical Geology (4)  MTH 22102 – Calculus II (4)  MTH-22202 – Calculus III (4)  PHY-20101/02 – General Physics I (4) &amp; Lab (1)  PHY-20201/02 – General Physics II (4) &amp; Lab (1)  PHY-22101/02 – College Physics I (4) &amp; Lab (1)  PHY-22201/02 – College Physics II (4) and Lab (1)</li> </ul>

\* 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. The five areas of study do not comprise a degree.**

## Pre-Engineering

**Nature of the Work:** Engineers employ the theory and principles of science and mathematics to the economical solution of practical technical problems. They design machinery, products, systems, and processes for efficient and economical performance. Also, many engineers design, plan, and supervise the construction of buildings, highways, and transit systems. Most engineers specialize in one of more than 25 major specialties recognized by professional societies.

Engineers in each specialization have knowledge and training that can be applied to many fields. They often use computers to simulate how a machine, structure, or system operates. Many engineers work in laboratories, industrial plants, or construction sites where they inspect, supervise, or solve onsite problems. Others work in an office almost all the time.

**Employment:** In 2002 engineers held 1.5 million jobs. Just under one half of the jobs were located in manufacturing industries. Employment opportunities are expected to be average through the year 2012. In 2003 the median annual income was \$81,120.

**The Courses:** The Kirtland Community College engineering curriculum is designed to provide the general education courses that are needed to transfer to a university for bachelor's degree completion. **The courses do not comprise a degree.**

Course	Title	Cr	Course	Title	Cr
<b>Semester I (Fall)</b>			<b>Semester III (Fall)</b>		
CHE-10101/02	General Chemistry I w/lab	5	EDT-12000	3D Parametric Solids w/Solidworks	3
EDT-10000	Engineering Graphics	3	XXX-XXXXX	Humanities Elective	3
ENG-10303	English Composition I w/Computers	3	MTH-22202	Calculus III	4
MTH-22002	Calculus I	4	PHY-22101/02	College Physics I w/lab	5
SPE-10500	Fundamentals of Speech	3	<b>Semester IV (Winter)</b>		
<b>Semester II (Winter)</b>			CIS-27001	Programming I	3
ENG-10403	English Composition II w/Computers	3	XXX-XXXXX	Humanities Elective	3
XXX-XXXXX	Humanities Elective	3	PHY-22201/02	College Physics II w/lab	5
MTH-22102	Calculus II	4	XXX-XXXXX	Social Science Elective	3
POL-10100	Intro to American Government	3			
XXX-XXXXX	Social Science Elective	3			

## Pre-Natural Resources

**Nature of the Work:** Forests and range lands serve a variety of needs from supplying wood products, livestock forage, minerals, and water, to serving as sites for recreational activities and providing habitats for wildlife. Foresters and conservationists manage, develop, use, and help protect these and other natural resources.

**Employment:** Conservation scientists and foresters held about 33,000 jobs in 2002. Nearly one-third of all workers were employed by the Federal Government. Another 24% worked for state governments, and 7% worked in local governments. The remainder worked in private industry, mainly in the forestry industry. Other significant employers included logging and lumber companies and sawmills.

**Job Outlook:** Employment of conservation scientists and foresters is expected to grow more slowly than the average for all occupations through 2012. Growth should be strongest in private sector consulting firms and in scientific research and development services. Median annual earnings of conservation scientists in 2002 were \$50,340. Salaries ranged between \$39,300 and \$61,440.

**The Courses:** There are courses at Kirtland Community College designed to provide the general education that is needed to transfer a university for bachelor's degree completion for most programs in forestry, conservation, agriculture, and park and wildlife management. The courses do not comprise a degree.

Course	Title	Cr	Course	Title	Cr
<b>Semester I (Fall)</b>			<b>Semester III (Fall)</b>		
BIO-10100	General Biology	4	BIO-21000	Microbiology	4
CHE-10101/02	General Chemistry I w/lab	5	XXX-XXXXX	Humanities Elective	3
ENG-10303	English Composition I w/Computers	3	XXX-XXXXX	Social Science Elective	3
MTH-22002 or MTH-18001	Calculus I Precalculus	4	PHY-20101/02	General Physics I w/lab	5
<b>Semester II (Winter)</b>			<b>Semester IV (Winter)</b>		
BIO-20100	General Zoology	4	BIO-21000	Microbiology	4
CHE-10201/02	General Chemistry II w/lab	5	XXX-XXXXX	General Electives	5
ENG-10403	English Composition II w/Computers	3	XXX-XXXXX	Humanities Elective	3
XXX-XXXXX	Humanities Elective	3	XXX-XXXXX	Social Science Elective	3
POL-10100	Intro to American Government	3			

## Pre-Optometry

**Nature of the Work:** Over half the people in the United States wear glasses or contact lenses. Optometrists provide most of the primary vision care people need. They examine people's eyes to diagnose vision problems and eye disease and provide treatment. Most optometrists are in general practice.

**Employment:** The number of jobs is greater than the number of practicing optometrists at this time because some held two or more jobs, such as in a private practice and in another clinic or vision care center. Median annual earnings of salaried optometrists were \$86,090 in 2002. The yearly salary ranged between \$62,030 and \$115,550.

**Job Outlook:** Employment of optometrists is expected to grow about as fast as the average for all occupations through 2012, in response to the vision care needs of a growing and aging population.

**The Courses:** The courses at Kirtland Community College are designed to provide the general education that is needed to transfer to a university. The courses do not comprise a degree. A license to practice optometry is required in all states. To obtain a license, one must have a Doctor of Optometry degree from an accredited college of optometry and pass both a written and a clinical state board examination. Licenses are renewed every year or two and in most states, continuing education credits are needed for renewal.

Course	Title	Cr	Course	Title	Cr
<b>Semester I (Fall)</b>			<b>Semester III (Fall)</b>		
BIO-10100	General Biology	4	BIO-11500	Anatomy & Physiology I	4
CHE-10101/02	General Chemistry I w/lab	5	XXX-XXXXXX	Humanities Elective	3
ENG-10303	English Composition I w/Computers	3	XXX-XXXXXX	Social Science Elective	3
XXX-XXXXXX	Humanities Elective	3	PHY-20101/02	General Physics I w/lab	5
MTH-22002	Calculus I	4			
<b>Semester II (Winter)</b>			<b>Semester IV (Winter)</b>		
BIO-20100	General Zoology	4	BIO-11600	Anatomy & Physiology II	4
CHE-10201/02	General Chemistry II w/lab	5	XXX-XXXXXX	Humanities Elective	3
ENG-10403	English Composition II w/Computers	3	XXX-XXXXXX	Social Science Elective	3
POL-10100	Intro to American Government	3	PHY-20201/02	General Physics II w/lab	5

## Pre-Pharmacy

**Nature of the Work:** Pharmacists dispense drugs prescribed by physicians and other health practitioners and provide information to patients about medications and their use. They advise physicians and other health practitioners on the selection, dosages, and side effects of medications. Pharmacists must understand the use, composition, and effects of drugs. Compounding - the actual mixing of ingredients to form powders, tablets, capsules, ointments, and solutions - is only a small part of a pharmacist's practice, because most medicines are produced by pharmaceutical companies in a standard form and dosage.

**Employment:** Pharmacists held about 230,000 jobs in 2002. About 62 percent work in community pharmacies that are either independently owned or part of a drugstore chain, grocery store, department store, or mass merchandiser. Most community pharmacists are salaried employees, but some are self-employed owners.

**Job Outlook:** Very good employment opportunities are expected for pharmacists over the 2002-12 period because the number of degrees granted in pharmacy is expected to be less than the number of job openings created by employment growth and the need to replace pharmacists. Median annual wage & salary earnings of pharmacists in 2002 were \$77,050. Salaries range from \$66,210 and \$87,250 a year.

**The Courses:** The courses at Kirtland Community College are designed to provide the general education needed to transfer to a university. The course below do not comprise a degree but a group of transfer courses appropriate for pre-pharmacy. A license to practice pharmacy is requires in all states. To obtain a license, one must graduate from an accredited college of pharmacy, pass a state examination, and serve an internship under a licensed pharmacist.

Course	Title	Cr	Course	Title	Cr
<b>Semester I (Fall)</b>			<b>Semester III (Fall)</b>		
BIO-10100	General Biology	4	BIO-11500	Anatomy & Physiology I	4
CHE-10101/02	General Chemistry I w/lab	5	XXX-XXXXXX	Humanities Elective	3
ENG-10303	English Composition I w/Computers	3	MTH-22002	Calculus I	4
XXX-XXXXXX	Humanities Elective	3	XXX-XXXXXX	Social Science Elective	3
<b>Semester II (Winter)</b>			<b>Semester IV (Winter)</b>		
BIO-20100	General Zoology	4	BIO-11600	Anatomy & Physiology II	4
CHE-10201/02	General Chemistry II w/lab	5	BIO-21000	Microbiology	4
ENG-10403	English Composition II w/Computers	3	XXX-XXXXXX	Humanities Elective	3
MTH-20600	Application in Statistics	4	XXX-XXXXXX	Social Science Elective	3
SPE-10500	Fundamentals of Speech	3			

## Pre-Veterinary Medicine

**Nature of the Work:** Veterinarians care for pets, livestock, sporting and laboratory animals, and protect humans against diseases carried by animals. Veterinarians diagnose medical problems, dress wounds, set broken bones, perform surgery, prescribe and administer medicines, and vaccinate animals against diseases. They also advise owners on care and breeding.

**Job Outlook:** Veterinarians held about 58,000 jobs in 2002. About 28 percent were self-employed in solo or group practices. Most others were salaried employees of another veterinary practice. The Federal Government employed about 1,100 civilian veterinarians. Most veterinarians caring for zoo animals are private practitioners who contract with zoos to provide services, usually on a part time basis. Very good opportunities are expected because the number of graduates from veterinary school is not expected to increase significantly over the 2002-12 period. Median annual earnings of veterinarians were \$63,090 in 2002. The yearly salaries range between \$49,050 and \$85,770.

**The Courses:** The KCC courses provide the general education courses designed to transfer to the university level for continuation of studies. The courses do not comprise a degree. All states in the U.S. require that veterinarians be licensed. To obtain a license, applicants must have a Doctor of Veterinary Medicine degree from an accredited college of veterinary medicine and pass a state board examination.

Course	Title	Cr	Course	Title	Cr
<b>Semester I (Fall)</b>			<b>Semester III (Fall)</b>		
BIO-10100	General Biology	4	BIO-11500 <b>or</b> BIO-21000	Anatomy & Physiology I <b>OR</b> Microbiology	4
CHE-10101/02	General Chemistry I w/lab	5	XXX-XXXXX	General Elective	5
ENG-10303	English Composition I w/Computers	3	PHY-20101/02	General Physics I w/lab	5
XXX-XXXXX	Humanities Elective	3	XXX-XXXXX	Social Science Elective	3
MTH-22002	Calculus I	4	<b>Semester IV (Winter)</b>		
<b>Semester II (Winter)</b>			BIO-11600 <b>or</b> BIO-20200	Anatomy & Physiology II <b>OR</b> General Botany	4
BIO-20100	General Zoology	4	XXX-XXXXX	Humanities Elective	3
CHE-10201/02	General Chemistry II w/lab	5	XXX-XXXXX	Social Science Elective	3
ENG-10403	English Composition II w/Computers	3	PHY-20201/02	General Physics II w/lab	5
XXX-XXXXX	Humanities Elective	3			
POL-10100	Intro to American Government	3			

## Pre-Chiropractic

**Nature of the Work:** Under Construction.

**Job Outlook:** Under Construction.

**The Courses:** The KCC courses provide the general education courses designed to transfer to the university level for continuation of studies. The courses do not comprise a degree. This statement is Under Construction.

Subject Area	Credits	Courses (Credit hours are listed after each course.)
Biology	8	<ul style="list-style-type: none"> <li>• BIO-11500 – Anatomy and Physiology I (4)</li> <li>• BIO-11600 – Anatomy and Physiology II (4)</li> </ul>
Inorganic Chemistry	10	<ul style="list-style-type: none"> <li>• CHE-10101/02 – General Chemistry I with Lab (4/1)</li> <li>• CHE-10201/02 – General Chemistry II with Lab (4/1)</li> </ul>
Physics	10	<ul style="list-style-type: none"> <li>• PHY-20101/02 – General Physics I with Lab (4/1)</li> <li>• PHY-20201/02 – General Physics II with Lab (4/1)</li> </ul>
Communication/Writing/Speech	6	<ul style="list-style-type: none"> <li>• Literature courses are not recommended (6 or more)</li> </ul>
Humanities and Social Sciences	18	<ul style="list-style-type: none"> <li>• Select courses from: Anthropology, Classics, Communications, Criminal Justice, Economics, Education, English, Fine Arts, Foreign Languages, Government, History, Psychology, Philosophy, Political Science, Religion, and Sociology</li> </ul>

Organic Chemistry: An academic year of Organic Chemistry is not available at this institution. Please contact Palmer College of Chiropractic Admissions Department for assistance in selecting the appropriate course(s).

**THIS PROGRAM IS SUBJECT TO REVISION DUE TO ADDITIONS AND/OR DELETIONS IN THE COLLEGE/UNIVERSITY BULLETIN.**

# COURSE DESCRIPTIONS

This portion of the 2006-2007 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 (F,W)**      **4(3-2)**  
Course description would be inserted here.  
**Prerequisite:** DEV-07300 **or**  
**Corequisite:** DEV-07300  
(*Credit Type*)

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.

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## ACCOUNTING (ACC)

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**ACC-12100 Accounting Principles I (F,W)**      **4(4-0)**

This course provides development of an understanding of accounting topics that include assets, liabilities, and both partnership and corporate equity. This course will develop the student's ability to use accounting information. **Prerequisite:** DEV-07300 or competency.

**ACC-12200 Accounting Principles II (F,W)**      **4(4-0)**

A study of managerial accounting statements, including financial statement analysis, budgeting, and decision making, becomes the major emphasis of this course. Also included is financial statement preparation, with the statement of cash flow. **Prerequisite:** ACC-12100.

**ACC-12500 Computer Accounting with QuickBooks (F)**      **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.

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## ALLIED HEALTH (ALH)

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**ALH-10101 Medical Terminology (F,W,S)****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.

**ALH-10400 Nursing Assistant (W, S)****5(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.

**ALH-10801 Pathology (W)****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.

**ALH-11201 Medical Ethics & Law (F,W)****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.

**ALH-11400 Math for Medication Administration (F, W)****1(1-0)**

This course reviews Roman numerals, fractions, decimals, percentages, and ratios. It includes a study of the metric system and the Apothecaries' system, with applications in converting from one system to another. The course emphasizes calculations involved in preparing solutions and giving medications. **Prerequisite:** DEV-07300 or indicated tested competency.

**ALH-12401 Lifetime Wellness & Nutrition (F,W,S)****2(2-0)**

This course focuses on recommended screening to maintain health, appropriate nutrition, concepts of fitness, and stress management. It will help the student understand how an individual can plan a healthier lifestyle.

**ALH-15000 Basic Pharmacology (F)****3(3-0)**

This course is designed to introduce the student to basic concepts of drug therapy, principles and methods of drug administration, and related health care activities and responsibilities. The course is based on the pharmaco/physiological concept. Continual association to clinical experience and physiology principles serve as a foundation of the course. **Prerequisite:** BIO-10701 and BIO-10702, or BIO-11500 and BIO-11600; and ALH-10101.

**ALH-20201 Standard First Aid (V)****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.

**ALH-21500 Paramedic I (W)****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.

**ALH-21701 Basic Emergency Medical Technician (F)****10(7-4-3)**

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.

**ALH-22500 Paramedic II (S)****13(9-8)**

This course is the second part of the paramedic program. Hands-on practical skills training is included. **Prerequisite:** ALH-21500.

**ALH-23500 Paramedic III (F)****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.

**ALH-24500 Paramedic IV (W)****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.

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## ART (ART)

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**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 Introduction 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 Fundamentals 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-20500 Design II (F, W)**

**3(0-4)**

This course concentrates on three-dimensional form and spatial relationships. Students will gain the ability to manipulate objects in three-dimensional space. Course assignments will focus on processes of construction and quality of craftsmanship. **Prerequisite:** ART-10500. *(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-21600 Painting III (F, W)** **3(1-3)**  
 This course will explore varying degrees of painterly expression. Non-objective/formalist painting issues will be investigated in conjunction with experimentation in painting techniques. Emphasis will be on individual development and refinement of personal expression. **Prerequisite:** ART-20700. (*Humanities Credit*)
- ART-21800 Ceramics (Studio Problems) (F, W)** **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 Introduction 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-23100 Advanced Black & White Photography (F, W)** **3(0-4)**  
 Students will be encouraged to use a variety of films and processes. Students will use both medium and large format cameras, as well as gain a greater understanding of 35mm photography. The use of special lighting techniques will also be explored. **Prerequisite:** ART-21500. (*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-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. **Prerequisites:** ART-11500 and ART-27545 or permission of instructor. (*Humanities Credit*)
- ART-27553 Advanced 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-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-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.

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## ASTRONOMY (AST)

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**AST-10101 Astronomy I (V)****4(4-0)**

Introductory course studying Astronomy and related sciences. Covering topics of solar/stellar structure and evolution, and cosmology.

**Prerequisite:** DEV-07300. **Corequisites:** MTH-10100 and AST-10102. (*Science credit*)

**AST-10102 Astronomy I Lab (V)****2(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*)

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## AUTOMOTIVE TECHNOLOGY (AUT)

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**AUT-16100 Engine Fundamentals & Overhaul (W)****4(3-3)**

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. **Recommended prerequisite:** AUT-16302 or instructor's permission.

**AUT-16201 Fuel Systems & Emission Control (W)****4(3-3)**

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. **Recommended prerequisite:** AUT-16401 or instructor's permission.

**AUT-16302 Automotive Fundamentals (F)****4(2-3)**

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)**

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.

**AUT-16801 Automotive Electrical Systems (W)****4(3-3)**

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. **Recommended prerequisite:** AUT-16401 or instructor's permission.

**AUT-17702 Automotive Braking Systems (F)****5(3-3)**

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. **Recommended Corequisite:** AUT-16302 or instructor's permission.

**AUT-18001 Engine Tune-Up & Performance Recertification (V)****1(.5-.5)**

This course is designed for Michigan-certified automotive technicians who are required to fulfill Michigan Bureau of Automotive Regulation recertification requirements. This course satisfies the objectives for Engine Tune-Up and Performance as outlined by the State of Michigan. **Prerequisite:** current Michigan Bureau of Automotive Regulation certification in the area of Engine Tune-Up and Performance.

**AUT-18002 Automotive Electrical Systems Recertification (V)****1(.5-.5)**

This course is designed for Michigan-certified automotive technicians who are required to fulfill Michigan Bureau of Automotive Regulation recertification requirements. This course satisfies the objectives for Automotive Electrical Systems as outlined by the State of Michigan.

**Prerequisite:** current Michigan Bureau of Automotive Regulation certification in the area of Automotive Electrical Systems.

**AUT-18003 Automotive Brake Systems Recertification (V)**

**1(5-5)**

This course is designed for Michigan-certified automotive technicians who are required to fulfill Michigan Bureau of Automotive Regulation recertification requirements. This course satisfies the objectives for Automotive Brakes Systems as outlined by the State of Michigan.

**Prerequisite:** current Michigan Bureau of Automotive Regulation certification in the area of Automotive Brake Systems.

**AUT-20402 Introduction to Automotive 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. **Recommended prerequisite:** AUT-16302 or instructor permission.

**AUT-20404 Advanced Automotive 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. **Recommended Prerequisites:** COM-10000, 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. **Recommended 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. . **Recommended 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. . **Recommended 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. . **Recommended Prerequisites:** AUT-16201, AUT-16302, AUT-16401, AUT-16801, and AUT-26601.

**AUT-23104 Automotive Internship (W)**

**8(1-11)**

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. **Corequisite:** AUT-17901 or instructor permission.

**AUT-26500 Steering, Suspension & Alignment (W)**

**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. **Recommended prerequisite:** AUT-16302 or instructor's permission, and AUT-17702.

**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. . **Recommended 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-27000 Heating & Air Conditioning (F)**

**3(2-2)**

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. **Recommended prerequisite:** AUT-16302 or instructor's permission.

**AUT-275-- Directed Study-Automotive Technology (V)**

**1-6(Variable)**

This is a course designed to meet special occupational needs for individual students. **Prerequisite:** recommendation of an advisor.

**AUT-27900 Manual Transmission, Drivelines & Rear Axles (F)**

**4(3-3)**

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/transaxle, propeller shafts, universal joints, and rear axles. The

student is given experience in disassembly and reassembly of component parts. **Recommended prerequisite:** AUT-16302 or instructor permission.

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## AVIATION (AIR)

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### **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.

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## BIOLOGY (BIO)

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### **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-10701 Essentials of Anatomy & Physiology (F,W,S)**

**3(3-0)**

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. **Corequisite:** BIO-10702. (*Science Credit, except for Associate in Science*)

### **BIO-10702 Essentials of Anatomy & Physiology Lab (F,W,S)**

**1(0-2)**

This is a laboratory course to accompany BIO-10701. **Corequisite:** BIO-10701. (*Science Credit, except for Associate in Science*)

### **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 permission of instructor. Nursing students must have taken course within 10 years of entering the nursing program. (*Science Credit, except for Associate in Science*)

### **BIO-11600 Anatomy & Physiology II (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-12000 Life Science I (F,W)**

**4(3-2)**

This is an introductory course for pre-education majors. Content will be at the college level and consistent with the life science content strands established in "Michigan Essential Goals and Objectives for Science Education K-12" including cells, organization of living things, heredity, evolution, ecosystems, constructing new scientific knowledge, and reflecting on scientific knowledge. Instructional methods will reflect active learning styles appropriate for K-8 classrooms. (*Science Credit*)

### **BIO-20100 General Zoology (V)**

**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,W)**

**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 (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*)

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## **BUSINESS (BUS)**

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### **BUS-10100 Introduction to Business (F,W)**

**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 (V)**

**3-9(variable)**

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 (S)**

**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 Principles 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)**

**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.

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## **CAREER ABILITY PREPARATION (CAP)**

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Courses beginning with the three-letter CAP designation are the Career Ability Preparation courses offered at M-TEC<sup>SM</sup> at Kirtland-Gaylord. These courses include topics in reading, writing, math, and locating information. For more information, call 989-705-3600 or go to [mtec.kirtland.edu](http://mtec.kirtland.edu).

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## **CAREER AND PERSONAL DEVELOPMENT (CAR)**

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### **CAR-10300 Career Development Skills (V)**

**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-10900 Efficient Reading (F,W)****1(0-2)**

This course in reading for speed and efficiency is for the average or better reader who has no reading difficulties but wishes to increase reading speed and comprehension. **Prerequisite:** DEV-09601 or a satisfactory reading placement.

**CAR-12600 Service Learning Lab (V)****1(Variable)**

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(Variable)**

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.

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## CARPENTRY (CPT)

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Courses beginning with the three-letter CPT designation are the carpentry courses offered at M-TEC<sup>SM</sup> at Kirtland-Gaylord. For more information, call 989-705-3600 or go to [mtec.kirtland.edu](http://mtec.kirtland.edu).

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## CHEMISTRY (CHE)

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**CHE-10003 Chemical Science (F,W,S)****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,S)****1(0-2)**

This is a laboratory course to accompany CHE-10003. **Corequisite:** CHE-10003. (*Science Credit*)

**CHE-10101 General 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 General Chemistry I Lab (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*)

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## COMMUNICATION (COM)

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**COM-10000 Written & Oral Communication (V)****3(3-0)**

This course combines group, public, and written communication skills. Students will be exposed to these aspects of communication through reading and research and will demonstrate these skills through group activities, classroom discussion, presentations, and written assignments. **Prerequisite:** ENG-10303.

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## COMPUTER AIDED DRAFTING & DESIGN TECHNOLOGY (CAD)

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**Please Note:** All former Computer Aided Drafting & Design Technology (CAD) courses are now

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Engineering Design Technology (EDT) courses. See EDT for all current courses, and programs.

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## COMPUTER INFORMATION SYSTEMS (CIS)

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### Competency Tests

Students who do not have a prerequisite CIS course but desire entry into an upper-level CIS course may bypass the prerequisite if they complete a short competency test (20-30 true/false or multiple choice questions).

Competency tests focus on general concepts rather than specific features. (Students will not be given study guides.) A competency test for CIS-10500 is currently available in the testing center. Tests will be scored immediately after the student has completed them. Students will need 75% or more correct to bypass a CIS prerequisite. Students who do pass the test will be given a form allowing them entry into classes with the designated prerequisite.

Competency tests DO NOT transfer to other schools, and students will not be given college credit for taking them. They ensure that students registered for upper-level courses have the necessary prerequisite skills.

### 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 Introduction 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 Office 2003 (Word 2003, Excel 2002, Access 2003, and PowerPoint 2003), and the Internet Explorer. Keyboarding skills are required and necessary for successful completion of this course. **Prerequisite: Keyboarding skills.**

### CIS-11700 Visual Basic I (F)

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-11800 Visual Basic II (W)

3(1.5-1.5)

This Visual Basic Programming II course reviews algorithmic design concepts and implements them using the Visual Basic programming language. This course addresses Visual Basic programming constructs, arrays, files, and functions; then moves to advanced concepts, controls, and objects. **Prerequisite:** CIS-11700.

### CIS-17001 Microsoft Office (F,W)

3(3-0)

This course covers how to utilize and integrate all the applications contained within Microsoft Office 2003. Exercises will involve business applications using the word processing, spreadsheet, database management, and presentation software components of Microsoft Office. Application software used: Word 2003, Excel 2003, Access 2003, and PowerPoint 2003. **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 PowerPoint 2003. **Prerequisite:** CIS-10500, or CIS-22302, or demonstrated competency.

### CIS-17200 Publisher (S)

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 Publisher 2003. **No prerequisite.**

### CIS-17300 Microsoft Access (F)

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 (W) 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-21900 MacIntosh OS X (V) 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 multi-media applications, and how they operate in the Mac OS environment.

**CIS-22302 Windows XP (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 (F) 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 (F) 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 used is Microsoft Excel 2003. **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 Excel 2003. (This software is packaged with Microsoft Office Standard, Microsoft Office Professional, and it can be purchased as a standalone product). **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. Application software used is Access 2003. **Prerequisite:** CIS-10500 or demonstrated competency.

**CIS-24000 Technology in Education (W) 3(1-2)**

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 Introduction to Computer Networking (W) 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 (W) 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 (W,S)** **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 (W, S)** **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 (V)** **2(2-0)**  
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. Topics such as conditionals, functions, objects, properties, methods, event handlers, forms, and frames will be covered in this course. **Prerequisite:** CIS-26300 or demonstrated competency.

**CIS-26500 Networking II (W)** **3(1-2)**  
The main goal of this course is to provide a comprehensive understanding of networking technologies, concepts and terminology, with an emphasis on experiential and hands-on learning. **Prerequisite:** CIS-26000 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. **Prerequisite:** CIS-10500 or demonstrated competency. **Corequisite:** MTH-12000 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 (V)** **3(3-0)**  
Students will produce interactive, dynamic, web-based applications using popular, marketable, web programming languages and tools. Specific languages/tools used include XML, PHP, ASP, JavaServer Pages, Access and SQL, Visual Basic.NET, C#.NET and ASP.NET. **Prerequisite:** CIS-22400, CIS 27001, CIS 26300, or demonstrated competency.

**CIS-275-- Directed Study-Computer Information Systems (V)** **1-6(Variable)**  
This is a course designed to meet special occupational needs for individual students. **Prerequisite:** advisor recommendation

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## CONTRACTING WITH BUSINESS & INDUSTRY - (CBI)

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**CBI-101-- Contracting with Business and Industry I (F,W,S)** **8(0-8)**  
This is the first in a sequence of two courses required for completion of the CWB&I program. The student is trained at an appropriate work site in the community for a specific occupation not offered as part of the college's regular programs. 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 CWB&I program. **Corequisite:** 8-9 credits of appropriate electives.

**CBI-102-- Contracting with Business and Industry II (F,W,S)** **8(0-8)**  
This is the second in a sequence of two courses required for completion of the CWB&I program. The student receives advanced training at an appropriate work site in the community in accordance with the same requirements as CBI-10100. **Prerequisite:** CBI-101--. **Corequisites:** 7-8 credits of appropriate electives.

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## CORE (COR)

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Courses beginning with the three-letter COR designation are the construction safety courses offered at M-TEC<sup>SM</sup> at Kirtland-Gaylord. They include Basic Safety, Introduction to Hand Tools, Introduction to Power Tools, Introduction to Construction Math, Introduction to Blueprint Reading, and Basic Rigging. For more information, call 989-705-3600 or go to [mtec.kirtland.edu](http://mtec.kirtland.edu).



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## COSMETOLOGY (COS)

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- COS-11200 Manicuring I (F,W,S)** 2.5(1-4)  
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(1-4)  
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(1-4)  
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(1-4)  
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(1-4)  
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(1-4)  
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(1-4)  
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(1-4)  
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(1-4)  
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(1-4)  
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(1-4)  
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(1-4)  
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(1-4)  
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(1-4)

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(1-4)**

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(1-4)**

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(1-4)**

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(1-4)**

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(1-4)**

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(1-4)**

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(1-4)**

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(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. **Prerequisite:** COS-13500.

**COS-14100 Skin Care I (F,W,S) 2.5(1-4)**

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(1-4)**

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(1-4)**

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(1-4)**

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(1-4)**

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(1-4)**

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(Variable)**  
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(Variable)**  
 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 (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(1-4)**  
 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(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. **Prerequisite:** COS-22100.
- COS-22300 Cosmetology 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. **Prerequisite:** COS-22200.
- COS-22400 Cosmetology 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. **Prerequisite:** COS-22300.
- COS-22500 Cosmetology 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. **Prerequisite:** COS-22400.
- COS-22600 Cosmetology 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. **Prerequisite:** COS-22500.
- COS-24100 Skin Care 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-24200 Skin Care 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-24300 Skin Care 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-24400 Skin Care 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-24500 Skin Care 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-24600 Skin Care 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.
- COS-25010 Natural Hair Cultivation 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-25020 Natural Hair Cultivation 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-25030 Natural Hair Cultivation 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-25040 Natural Hair Cultivation 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-25050 Natural Hair Cultivation 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-25060 Natural Hair Cultivation 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.
- COS-255-- Cosmetology Seminar (V)** **(Variable)**  
 This course is designed to meet deficiency in laboratory hours.
- COS-275-- Directed Study-Cosmetology (V)** **1-6(Variable)**  
 This course is designed to meet special occupational needs for individual students. **Prerequisite:** recommendation of his/her advisor.

## CRIMINAL JUSTICE (CJS)

- CJS-10000 Introduction 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)** **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 Introduction to Corrections (F,W,S)** **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,W,S)** **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-12100 Photography for Police / Firefighters (V)** **3(2-1)**  
 Emphasis will be given to the collection, preservation, and presentation of photographic evidence and will include hands-on camera technique, film selection, preservation of photographic evidence, painting with light, arson photography, portrait, close-up and copy work, surveillance, filters, lighting, crime scene photography, ultraviolet and infrared, traffic, civil disorders, mug shots, administration of a photographic unit, and courtroom testimony. **Prerequisite:** permission of the head of criminal justice.
- CJS-12300 Firearms - Concealed Weapon Program (V)** **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 Institutions & Facilities (F,W,S)** **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 Correctional Officer's Report Writing with Computers (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 (F,W,S)** **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(Variable)**  
 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 (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 (F,W)** (Also listed as SOC-24000) **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 (F)** (Also listed as SOC-24500) **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-250-- In-Service Courses (V)** **1-8(Variable)**  
In-service training courses are designed to update full-time law enforcement officers on new and current trends in police services. The general purpose of the update is to improve the knowledge and intellectual functioning of the police officer. Departments have the need for in-service training as a means of dealing with the threat of vicarious liability.

**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)** **21(0-42)**  
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 (W)** **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 Administration (V)** **1-6(Variable)**  
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 Administration (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.

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## DEVELOPMENTAL (DEV) Below 100 level

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**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-08000 Essential Language Skills (F,W,S)** **3(0-3)**  
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,S)** **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,S)** **1-3(variable)**  
This course provides individualized and/or small group instruction in basic writing skills. **Prerequisite:** permission of the instructor.

**DEV-09000 Fundamentals 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-09200 Mechanics of Spelling (F,W,S) 1(0-2)**

This course is a study of basic spelling patterns, sounds, functions, and their application to whole families of words.

**DEV-09301 Study Skills (F,W) 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.

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## ECONOMICS (ECO)

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**ECO-20100 Principles 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 Principles 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*)

**ECO-24500 International Economics (V) (Also listed as POL-24500) 3(3-0)**

This course provides an introduction to the international economics for the understanding of the post-Cold War world with the new international system that has succeeded it--globalization. The course examines how globalization now shapes virtually all domestic policies and international relations. It offers a provocative look at the positive and negative impacts of globalization, including the historical, theoretical, and political blend of relationships between nations, corporations, and individuals. **Prerequisite:** ECO-20100. (*Social Science Credit*)

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## EDUCATION (EDU)

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**EDU-10000 Introduction to Teaching (V) 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.

**EDU-10300 Strategies for Paraprofessionals (V) 3(3-0)**

This course is designed to help adults assist teachers in a K-12 classroom and provide techniques to tutor students at all levels. Students will explore the job descriptions of a paraprofessional in the public school and the roles he/she plays in increasing students' success and achievement, and techniques to use for maintaining classroom discipline. Students will also look at different strategies and develop learning materials to meet the students' instructional and independent level.

**EDU-10400 Instructional Strategies (V) 1(24-0)**

Participants taking this course will discuss research on the factors that influence learning, ideas, and strategies for communicating, and helpful hints for increasing the effectiveness of teaching strategies. Details concerning classroom management that might create more positive and successful teaching and learning experiences will be discussed, as well as guidelines for conducting written and performance evaluations.

**EDU-10500 Lesson Design & Classroom Management (V) 3(2-3)**

Students will learn the elements of lesson design, classroom management, and student learning styles. Students will complete 45 hours of field experience to apply their teaching strategies with students in an area school. **Prerequisite:** EDU-10000.

**EDU-11100 Math Support in K-6 Classrooms (V) 3(3-0)**

Participants in this course will deepen previous understandings and knowledge of mathematical concepts and skills at the pre K-8 levels through a variety of experiences with standards-based elementary math programs. The course will address each of the National Council of Teachers of Mathematics (NCTM) Standards: Number and Operation, Algebra, Geometry, Measurement, Data Analysis and Probability, Problem Solving,



Reasoning and Proof, Communication, and Connections, along with the NCTM Principles of Equity, Curriculum, Teaching, Learning, and Assessment. Participants will learn practical strategies and techniques to practice the skills that students should acquire.

**EDU-11200 Literacy Support in K-6 Classrooms (V)**

**3(3-0)**

This course will focus on preparing the student to support literacy instruction within the K-6 classroom. Components of the course will include the 1) examination of the developmental levels of reading, writing, speaking, listening, and viewing; 2) the assessment tools used by classroom teachers to inform their instruction; and 3) instructional strategies used to enhance literacy development. Students will have hands-on experience using strategies to support literacy development. The modules of the course will be based on research-based best practices in literacy, including “Michigan Literacy Progress Profile” (MLPP) and “Put Reading First.” **Prerequisite:** EDU-10000.

**EDU-11500 Introduction to Child Growth & Development (V)**

**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.

**EDU-12000 Preschool Lesson Design & Class Management (V)**

**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.

**EDU-12500 Learning Theory & Techniques for Tutors/Prospective Teachers (F)**

**1(1-0)**

This one-credit-hour class will familiarize students with learning strategies and teaching techniques, particularly as they relate to tutoring. Students will have the opportunity to apply the theory they learn in class to tutorial sessions. Students enrolled should be tutoring concurrently, planning to tutor, or planning to enter the field of education. **Prerequisite:** completion of one semester (minimum of six credits) with a minimum overall grade point average of 2.5.

**EDU-13000 CDA Credential Practicum (W)**

**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.

**EDU-21500 Administering Preschool Programs (V)**

**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-12000.

**EDU-24000 Technology in Education (W)**

**3(1-2)**

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.

**EDU-275-- Directed Study-Education (V)**

**1-6(Variable)**

This course is designed to meet special occupational needs for individual students. **Prerequisite:** permission of the head of criminal justice.

**EDU-27508 Directed Study for School Administrators**

**1(1-0)**

This course is an approved self designed plan of professional development, including experiences significant and relevant to the educational administrator. This course can be taken for one, two (**EDU-27509**), or three (**EDU-27510**) credits. At the end of the semester, a debriefing workshop will take place for students to share experiences. **Prerequisite:** Permission of instructor.

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## ELECTRICAL TECHNOLOGY (ELT)

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Courses beginning with the three-letter ELT designation are the electrical technology courses offered at M-TEC<sup>SM</sup> at Kirtland-Gaylord. For more information, call 989-705-3600 or go to [mtec.kirtland.edu](http://mtec.kirtland.edu).

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## **ENGINEERING DESIGN TECHNOLOGY (EDT)**

(formerly Computer Aided Drafting & Design Technology - CAD)

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- EDT-10000 Engineering Graphics (F)** **3(3-0)**  
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 with AutoCAD (F, W)** **3(2-2)**  
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:** CAD-10300 or EDT-10000, or permission of instructor.
- EDT-12000 3D Parametric Solids w/Solidworks (F)** **3(2-2)**  
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. **Prerequisite:** CAD-10300 or EDT-10000, or permission of instructor.
- EDT-13000 Fundamentals of MasterCAM (V)** **3(1.5-1.5)**  
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:** CAD-10300 or EDT-10000, or permission of instructor.
- EDT-14000 Architectural Drafting/CAD (V)** **4(2-2)**  
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:** CAD-10700 or EDT-11000, or permission of instructor.
- EDT-15000 Quality Assurance Methods (F)** **3(3-0)**  
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 (W)** **3(3-1)**  
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:** CAD-12000 or EDT-11000 or EDT-12000 or EDT-14000.
- EDT-21000 Geometric Dimensioning & Tolerancing (F)** **3(3-0)**  
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:** CAD-10700 or EDT-11000 or EDT-12000, or permission of instructor.
- EDT-21500 Tool Design Fundamentals (W)** **3(3-0)**  
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. **Prerequisite:** CAD-12000 or MPT-10000 or EDT-11000 or EDT12000 or EDT-13000, or permission of instructor.
- EDT-22000 Engineering Design Problems (W)** **3(3-1)**  
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:** CAD-20001 or EDT-11000 or EDT-12000.

**EDT-24000 Architectural Drafting/CAD II (V)** **4(2-2)**  
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:** CAD-11000 or EDT-14000.

**EDT-24100 Architectural Drafting/CAD III (V)** **4(2-2)**  
This course will require each student to develop CAD drawings for residential construction of a multi-story dwelling based on a customer's specifications. A presentation of the final project will be made to the other students in the course. **Prerequisite:** CAD-22000 or EDT-24000.

**EDT-25000 Statistical Process Control Problems (W)** **2(2-1)**  
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 MPT-21200.

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## ENGLISH and LITERATURE (ENG)

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**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 with 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 with 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-10601 Technical Writing (V)** **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. **Prerequisite:** Satisfactory (C- or above) completion of ENG-10303.

**ENG-10602 Technical Writing with Computers (V)** **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 (V)** **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 (V)** **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 (V)** **1-4(Variable)**  
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-21200 Children's Literature (V)** **3(3-0)**  
This course provides a critical consideration of the major forms of literature for children of elementary school age through discussion and analysis of representative folk and fairy tales, myths, fables, poetry, works of fantasy, and realistic fiction. **Prerequisite:** Satisfactory (C- or above) completion of ENG-10303 or permission of instructor. (*Humanities Credit - Literature*)
- ENG-21400 Introduction to Literature (V)** **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 (V)** **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-22200 Introduction to Fiction (V)** **3(3-0)**  
This course provides discussion, analysis, and critical evaluation of selected works by various authors. **Prerequisite:** Satisfactory (C- or above) completion of ENG-10303 or permission of instructor. (*Humanities Credit - Literature*)
- ENG-22300 Introduction to Poetry (V)** **3(3-0)**  
This course provides discussion, analysis, and critical evaluation of selected works by various poets. **Prerequisite:** Satisfactory (C- or above) completion of ENG-10303 or permission of instructor. (*Humanities Credit - Literature*)
- ENG-22500 Contemporary Literature (V)** **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-22700 Introduction to Film (V)** **3(3-0)**  
Film has become one of the most important media forms today, and despite its relative youth as a means of relaying a story, a number of fine artist/filmmakers have already created works. The purpose of a film class is to examine the techniques directors use in order to show us a story. It will also examine how a director manipulates the medium to help the audience experience on-screen events and to sway the audience's judgements about those events. **Prerequisite:** Satisfactory (C- or above) completion of ENG-10303 or permission of instructor. (*Humanities Credit - Literature*)
- ENG-22800 Mythology (V)** **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 (V)** **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 (V)** **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 (V)** **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 (V)** **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 (V)** **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 (V)**

**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 (V)**

**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 (V)**

**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*)

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## ENGLISH AS A SECOND LANGUAGE (ESL)

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**ESL-01000 English as a Second Language/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 English as a Second Language/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 English as a Second Language/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).

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## GEOGRAPHY (GEO)

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**GEO-10000 World Geography (W)**

**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*)

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## GEOLOGY (GEL)

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**GEL-10500 Physical Geology (V)**

**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*)

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## HEATING/VENTILATION/AC/REFRIGERATION (HVC)

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Courses beginning with the three-letter HVC designation are the heating/ventilation/AC/refrigeration courses offered at M-TEC<sup>SM</sup> at Kirtland-Gaylord. For more information, call 989-705-3600 or go to [mtec.kirtland.edu](http://mtec.kirtland.edu).

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## HISTORY (HIS)

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**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 History 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 (V)**

**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*)

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## HONORS (HON)

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**HON-225-- Honors Project (V)**

**1-3(Variable)**

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.

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## HUMANITIES (HUM)

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**HUM-20500 The Individual and Society (V)**

**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*)

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## INDUSTRIAL MAINTENANCE (IND)

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Courses beginning with the three-letter IND designation are the industrial maintenance courses offered at M-TEC<sup>SM</sup> at Kirtland-Gaylord. For more information, call 989-705-3600 or go to [mtec.kirtland.edu](http://mtec.kirtland.edu)

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## LANGUAGES (see WORLD LANGUAGES)

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## LITERATURE (see ENGLISH and LITERATURE)

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## MANUFACTURING PROCESSES TECHNOLOGY (MPT)

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Additional manufacturing processes technology courses are available at M-TEC<sup>SM</sup> at Kirtland-Gaylord.  
For a complete listing, call 989-705-3600 or go to [mtec.kirtland.edu](http://mtec.kirtland.edu).

### Metal Machining I - includes MPT-10272 through MPT-10288 (formerly MPT-10000)

<b>MPT-10272 Machine Tool Safety</b>	<b>.17</b>
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.	
<b>MPT-10273 Identifying Surface Finishes</b>	<b>.08</b>
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.	
<b>MPT-10274 Shop Math – Speeds and Feeds</b>	<b>.2</b>
This course will teach the learner how to accurately calculate cutting speeds, RPM, and feeds for the purpose of cutting metal.	
<b>MPT-10275 Sharpening Drill Bits</b>	<b>.25</b>
In this course the learner will learn how to sharpen a drill bit by hand.	
<b>MPT-10276 Drilling on a Press</b>	<b>.17</b>
In this course the learner will be taught how to drill holes in a work piece on the drill press.	
<b>MPT-10277 Power Tap on the Drill Press</b>	<b>.25</b>
In this course the learner will be taught the proper steps and how to power tap on the drill press.	
<b>MPT-10278 Drill Press Project</b>	<b>.58</b>
In this course the learner will use several drilling operations to complete a drill vise to print specifications.	
<b>MPT-10279 Band Saw Blade Welding</b>	<b>.25</b>
In this course the learner will develop the skill of welding a band saw blade.	
<b>MPT-10280 Vertical Band Saw Project</b>	<b>.25</b>
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.	
<b>MPT-10281 Maintaining the Lathe</b>	<b>.17</b>
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.	
<b>MPT-10282 Grinding Lathe Tools</b>	<b>.25</b>
In this course the student will learn how to sharpen lathe tools.	
<b>MPT-10283 Facing on the Lathe</b>	<b>.21</b>
In this course the student will learn how to face the ends of a work piece to a specified length.	
<b>MPT-10284 Aligning Lathe Centers</b>	<b>.17</b>
In this course the student will learn how to align the centers of the lathe using the trial cut method.	
<b>MPT-10285 Cutting External Threads</b>	<b>.50</b>

In this course the student will learn about threads and thread forms and how to chase an external thread.

<b>MPT-10286 Dial in Vise/Tram in Head</b>	<b>.21</b>
In this course the student will learn the processes of a milling machine.	
<b>MPT-10287 Fly Cutter &amp; End Mill/Square Block</b>	<b>.21</b>
In this course the student will learn how to square a block of material on all 6 sides.	
<b>MPT-10288 Digital Read/Drill, Tap, &amp; Ream</b>	<b>.25</b>
This course will teach the learner how to use the digital readout to locate part coordinates to the print specifications.	
<b>MPT-10289 Parallel Turning on the Lathe</b>	<b>.21</b>
This course will instruct the learner in turning work on the lathe to "rough" and "finish" quality.	
<b>MPT-10290 Groove and part on the Lathe</b>	<b>.21</b>
This course will teach the student to cut grooves and cut off stock on the lathe.	
<b>MPT-10291 Cutting Internal Threads</b>	<b>.42</b>
This course will instruct the student in how to cut internal screw threads.	
<b>MPT-10292 Knurling on the Lathe</b>	<b>.13</b>
In this course the student will learn how to knurl on the lathe.	
<b>MPT-10293 Sharpen End Mills (end)</b>	<b>1.00</b>
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.	
<b>MPT-10295 Tilt Head and Turn Vise/Cut "V"</b>	<b>.50</b>
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."	
<b>MPT-10296 Turntable/Cut Radii</b>	<b>.33</b>
This course will show the student how to "set-up" the turntable and cut radii.	
<b>MPT-10297 Sine Plate/Cut Angles</b>	<b>.33</b>
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.	
<b>MPT-10298 Boring Head/Bore 4 Holes</b>	<b>.33</b>
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").	
<b>MPT-10299 Indexing Head/Key Ways</b>	<b>.17</b>
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.	
<b>MPT-10302 Square and Block (6 sides)</b>	<b>.25</b>
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.	
<b>MPT-10303 Grind Angles and Radii</b>	<b>.50</b>
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.	
<b>MPT-10304 Parallel Grind to Print</b>	<b>1.00</b>
This course will teach the student the proper way to parallel grind (on cylindrical grinders) by completing projects to print specifications.	
<b>MPT-10305 External/Internal Tapers</b>	<b>.50</b>
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.	
<b>MPT-10306 CNC Fundamentals</b>	<b>.83</b>
This module will provide the learner with knowledge of Computer Numerical Control (CNC) terminology and concepts.	
<b>MPT-10307 Geometric Dimensioning and Tolerancing</b>	<b>.33</b>
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.	
<b>MPT-10308 Micrometer</b>	<b>.13</b>
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.

<b>MPT-10309 Calipers: Digital, Vernier, Dial</b>	<b>.17</b>
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.	
<b>MPT10310 Telescoping Gage</b>	<b>.13</b>
This course will teach the learner the proper way to accurately measure holes using a telescoping gage.	
<b>MPT10311 Depth Micrometer</b>	<b>.13</b>
This course will teach the student to measure the depths of holes and steps with a depth micrometer within +/- .001.	
<b>MPT10312 Dial Indicators</b>	<b>.13</b>
This course will teach the student to use the dial indicator correctly in a machining environment.	
<b>MPT10313 Gage Blocks</b>	<b>.13</b>
This course will introduce the learner to and help use gage blocks.	
<b>MPT10314 Machine Shop Trigonometry</b>	<b>.67</b>
This course will instruct the learner in identifying different math procedures and calculations using trigonometry to solve problems.	
<b>MPT10315 Height Gage</b>	<b>.17</b>
This course will provide the learner with practice using a height gage.	
<b>MPT10316 Sine Bar</b>	<b>.17</b>
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.	
<b>MPT10317 CMM Fundamentals</b>	<b>.25</b>
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.	
<b>MPT10318 CMM Part Inspection</b>	<b>.67</b>
<b>MPT-10364 Cut Radius and External Tapers</b>	<b>.50</b>
The student will learn to machine an external taper using the taper attachment.	
<b>MPT-10408 Math for Dividing Head</b>	<b>.17</b>
This course will show the learner how to calculate simple and direct indexing.	
<b>MPT-10409 Dividing Head/Cut Gear</b>	<b>.42</b>
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.	
<b>MPT-20319 Property of Metals/Physical Metallurgy</b>	<b>.13</b>
This course will instruct the learner in examining and identifying the different properties of metals and their applications for different jobs.	
<b>MPT-20320 Constitution of Alloys</b>	<b>.17</b>
This course will instruct the learner in examining and studying the purpose of alloys in a given material.	
<b>MPT-20321 Carbon and Alloy Steels</b>	<b>.13</b>
This course will teach the student the range of possible types of steels, their properties, and their uses.	
<b>MPT-20322 Heat and Surface Treat for Steel</b>	<b>.13</b>
This course will instruct the learner in examining and studying the heat treat process and what it does to metals properties.	
<b>MPT-20323 Cast Irons</b>	<b>.13</b>
This course will instruct the learner in examining and identifying what makes cast iron desirable for machining and construction purposes.	
<b>MPT-20324 Light Metals and Alloys</b>	<b>.13</b>
This course will provide the learner with knowledge of light metals and alloys and their applications.	
<b>MPT-20325 Lead, Tin, and Zinc</b>	<b>.13</b>
This course will provide the learner with knowledge of lead, tin, and zinc, their properties, and their applications.	
<b>MPT-20326 Introduction to Metallurgy</b>	<b>.46</b>
This course will assist the welding student in developing a solid background in metallurgy.	

<b>MPT-20327 Examining and Identifying Metals</b>	<b>.13</b>
This course will provide information that the learner may use to examine and identify the metal being welded.	
<b>MPT-20328 Fundamentals of Welding and Brazing/Casting</b>	<b>.13</b>
This course will provide information that the student may use to examine and identify cast iron.	
<b>MPT-20329 Fundamentals of Welding Stainless Steel</b>	<b>.13</b>
This course will provide information that the student may use to examine and identify stainless steel.	
<b>MPT-20330 Testing Metals</b>	<b>.42</b>
This course will instruct the student in examining and identifying different inspection methods and metal processes.	
<b>MPT-20331 Machinery Handbook</b>	<b>.17</b>
This module will familiarize the learner with the Machinery's Handbook.	
<b>MPT-20332 Machine Tool Blueprint Reading</b>	<b>.83</b>
This module will introduce the learner to blueprints and drawing techniques which will be built upon with further modules in the program.	
<b>MPT-20333 Basic Shop Math</b>	<b>.67</b>
This module will instruct the student in whole numbers, fractions, decimals, inch/millimeter conversions, and percentages.	
<b>MPT-20334 Machine Tool Math</b>	<b>.75</b>
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.	
<b>MPT-20335 Machinist Scale</b>	<b>.08</b>
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.	
<b>MPT-20336 Dividers</b>	<b>.08</b>
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.	
<b>MPT-20337 Measuring with Spring Calipers</b>	<b>.08</b>
In this course, the learner will learn how to use the two common types of calipers, inside and outside calipers.	
<b>MPT-20338 Layout with the Combination Square Set</b>	<b>.08</b>
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.	
<b>MPT-20339 Scribing Machine Lines with Hermaphrodite Calipers</b>	<b>.08</b>
This course will teach the learner how to use the hermaphrodite caliper to scribe parallel lines and find the center of round stock.	
<b>MPT-20340 Scribing Lines with the Surface Gauge</b>	<b>.08</b>
This course will instruct the learner in scribing lines on a vertical surface with a surface gauge.	
<b>MPT-20366 EDM Fundamentals</b>	<b>.29</b>
This course examines and identifies the EDM process, applications, theory and various tooling components.	
<b>MPT-20367 EDM Project</b>	<b>.50</b>
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.	
<b>MPT-20368 Universal Indexing Head</b>	<b>.50</b>
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.	
<b>MPT-20369 CNC Turning</b>	<b>1.67</b>
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.	
<b>MPT-20370 CNC Milling</b>	<b>1.67</b>
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**

**1.00**

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 The Transformation of American Industry**

**.33**

In this course the student will gain an understanding of the principles of Statistical Process Control (SPC).

**MPT-20375 Deming on Quality and Productivity**

**.33**

In this course the student will gain an understanding of Deming's principles on quality and productivity.

**MPT-20376 The Transportation Process: Model for Quality/Productivity Improvement**

**.33**

In this course the student will gain an understanding of the principles of a model for quality/productivity improvement.

**MPT-20377 Project Selection**

**.33**

In this course the student will gain an understanding of some of the principles used in project selection.

**MPT-20378 Project Implementation: Data Gathering and Problem Solving**

**.33**

In this course the student will gain an understanding of the principles of data gathering and problem solving.

**MPT-20379 Project Implementation: Data Analysis and Interpretation**

**.33**

In this course the student will gain an understanding of data analysis and interpretation.

**MPT-20380 Project Implementation: Process Control X-Bar and R Charts**

**.33**

In this course the student will gain an understanding of process control x-bar and r charts.

**MPT-20381 Project Implementation: Process Capability**

**.33**

In this course the student will gain an understanding of the project implementation: process capability.

**MPT-20382 Project Implementation: Median and Individual Charts**

**.33**

In this course the student will gain an understanding of the proper use of median and individual charts.

**MPT-20383 Project Implementation: Attributes Charts**

**.33**

In this course the student will gain an understanding of the proper use of attribute charts.

**MPT-20384 Project Evaluation**

**.33**

In this course the student will gain an understanding of the principles of the project evaluation format.

**MPT-20385 Continuing Improvement Strategies**

**.33**

In this course the student will gain an understanding of some continuing improvement strategies.

**MPT-20386 Reaming on the Drill Press**

**.13**

This course will teach the learner to ream holes using a drill press and reamer.

**MPT-20387 Counterbore/Sink, Spot-Face**

**.21**

In this course, the learner will receive instruction in counterboring and spot facing.

**MPT-20388 Hand Tapping on the Drill Press**

**.21**

In this course the learner will receive instruction on hand tapping on the drill press.

**MPT-20389 Boring Internal Tapers**

**.67**

In this course the learner will be instructed on how to bore and cut a tapered hole on the lathe.

**MPT-20390 Using the Lathe to Complete a 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**

**.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.

<b>MPT-20392 5C Collet Holders/Cutting Square &amp; Hex</b>	<b>.33</b>
This course will instruct the learner in machining a set of T-bolts to print specifications.	
<b>MPT-20393 Make Dovetails</b>	<b>.67</b>
This course will help you learn to machine external and internal dovetails.	
<b>MPT-20394 Mill Project</b>	<b>1.25</b>
This course will provide the learner with an opportunity to perform a variety of milling machine operations on a work piece.	
<b>MPT-20395 Complete Two Projects to Print Specifications</b>	<b>1.58</b>
In this course the learner will develop the skills necessary to grind complex parts to print specifications using various machines, tooling and fixturing.	
<b>MPT-20396 Operating Automatic Grinder</b>	<b>.42</b>
<b>MPT-20397 Sine Bar Project</b>	<b>.83</b>
Upon completion of this course the learner will be able to demonstrate all of the machining skills needed to produce a Sine Bar.	
<b>MPT-20398 CNC Advanced Programming</b>	<b>2.08</b>
This course will instruct the learner in the proper way to successfully program a CNC machine.	
<b>MPT-20399 Sharpen End Mill (sides)</b>	<b>1.00</b>
In this course the student will gain an understanding of the principles of sharpening the sides (or periphery) of end milling cutters.	

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## MARKETING AND RETAILING (MKT)

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<b>MKT-11000 Principles of Selling (W)</b>	<b>3(3-0)</b>
This course covers principles and techniques employed by successful salesmen, with emphasis on how to sell rather than how to manage.	
<b>MKT-11500 Customer Relations (W)</b>	<b>3(3-0)</b>
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.	
<b>MKT-20000 Principles of Marketing (W)</b>	<b>3(3-0)</b>
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.	
<b>MKT-20100 Principles of Retailing (W)</b>	<b>3(3-0)</b>
This course emphasizes the theory of retailing and its application to business problems. The course covers retail structure, consumer analysis, store operation (organization, management, & control), personnel, merchandising, and sales promotion. Students are required to complete a retail store plan.	
<b>MKT-20200 Internet Marketing (W)</b>	<b>3(3-0)</b>
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. <b>Prerequisite:</b> CIS-10500 or equivalent, or permission of instructor; and MKT-20000 or equivalent, or permission of instructor.	
<b>MKT-20400 Advertising (W)</b>	<b>3(3-0)</b>
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.	
<b>MKT-21000 Market Research (V)</b>	<b>3(3-0)</b>
This course is designed to introduce the student to the problem-oriented nature of marketing research. Emphasis is given to how marketing research activities are actually implemented by professional marketing researchers. Students will be encouraged to involve themselves in a research project. <b>Prerequisite:</b> sophomore status or permission of advisor.	

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## MASSAGE THERAPY (MAS)

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**MAS-10000 Introduction to Massage Therapy (F,W)****1(1-0)**

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 Introduction to Clinic Operations (W)****1(1-0)**

This course will prepare the student to practice in the KCC Clinic. Upon completion of the course, students will understand the physical, financial, health, and business requirements of clinic operation. **Prerequisite:** MAS-10300. **Corequisites:** MAS-10400 .

**MAS-10300 Swedish Massage I (W)****2(1.5-1.5)**

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. **Corequisites:** MAS-10400.

**MAS-10400 Swedish Massage II (W)****2(1.5-1.5)**

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. **Prerequisite:** MAS-10300.

**MAS-11000 Massage Skills Lab (W)****1(0-1)**

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)**

This laboratory experience enables the student to practice Swedish and structural-based techniques in a supervised setting. **Prerequisite:** MAS-10200 and MAS-12300. **Corequisites:** MAS-12401, MAS-13004, and MAS-13005.

**MAS-12300 Structural Based Bodywork I (W)****1(1-0)**

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)**

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/individuals who have completed at least 100 hours of training. **Prerequisite:** MAS-12300.

**MAS-12500 Structural Based Bodywork III (F)****1(1-0)**

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)**

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. **Corequisite:** MAS-10000.

**MAS-13004 Topics I (S)**

**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. **Prerequisite:** MAS-10400.

**MAS-13005 Topics II (S)**

**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-13200 Internship (F)**

**1.5(0-1.5)**

This course enables the student to gain a working knowledge by practicing with an approved professional in the community. Practice sites may include hospitals, resorts, private clinics, and salons. **Corequisite:** MAS-13100.

**MAS-27500 Directed Study-Massage Therapy I (S)**

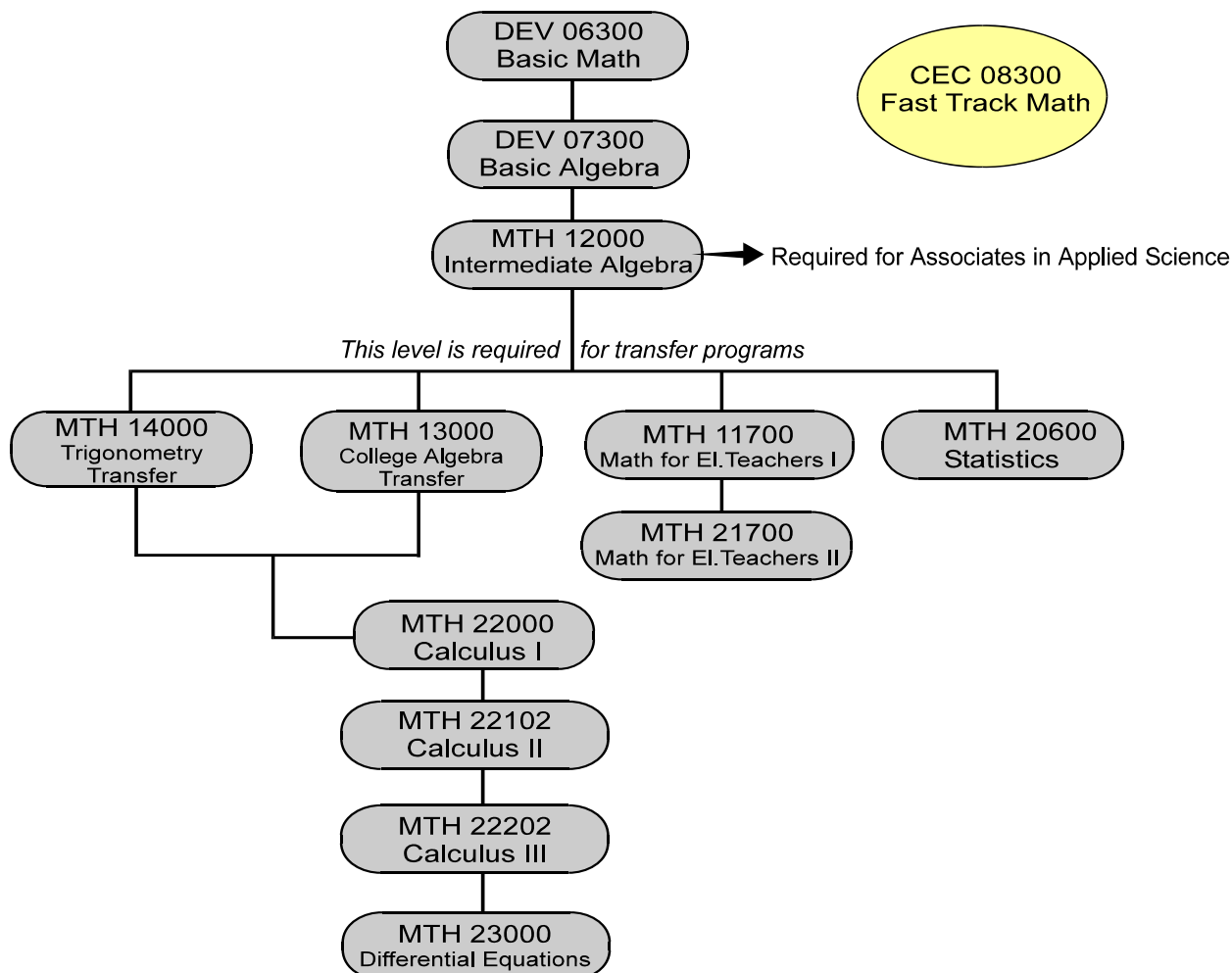
**2(2-0)**

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)

For Basic Mathematics, DEV-06300, & Basic Algebra, DEV-07300, see DEVELOPMENTAL course descriptions.

# MATH SEQUENCE



- MTH-10100 Finite Mathematics (F,W,S)** **4(3-1)**  
This course will cover fundamental algebraic operations and geometric concepts with some numerical and data analysis. Laboratory activities, explorations, and applications of these concepts will be conducted using graphing calculators/computers. A graphing calculator is required. **Prerequisite:** DEV-07300 or required COMPASS test scores.
- MTH-11700 Mathematics for 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. **Co-requisite:** 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 DEV-07300. (*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 (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 for 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 (F)** **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 (W)** **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*)

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## MUSIC (MUS)

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- 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 (F,W,S)** **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-10500 Piano II (F,W,S)** **3(1.5-1.5)**  
This course is a continuation of Piano I. **Prerequisite:** MUS-10400 or permission of instructor. (*Humanities Credit*)
- MUS-10600 Piano III (F,W,S)** **3(1.5-1.5)**  
This course is a continuation of Piano II. **Prerequisite:** MUS-10500 or permission of instructor. (*Humanities Credit*)
- MUS-10700 Piano IV (F,W,S)** **3(1.5-1.5)**  
This course is a continuation of Piano III. **Prerequisite:** MUS-10600 or permission of instructor. (*Humanities Credit*)
- MUS-10802 Contemporary Acoustic Guitar Styles I (F,W)** **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 7<sup>th</sup> chords that will allow them to accompany themselves and/or others. (*Humanities Credit*)
- MUS-10901 Contemporary Acoustic Guitar Styles II (F,W,S)** **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-11000 Instrumental Ensemble I (F)** **3(3-0)**  
This course develops general musicianship and provides training in instrumental ensemble playing. Participation in rehearsals for performances presented on campus is required. (*Humanities Credit*)
- MUS-11500 Beginning Voice (W)** **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-12702 Mikenauk Chorale (V)** **2(2-0)**  
This course is devoted to the study of various styles of choral literature with emphasis on seasonal music. It will range from polyphonic to the modern period. Emphasis will be placed upon the technique of singing, posture, and breathing.
- MUS-27503 Directed Study-Intermediate Voice (V)** **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*)
- MUS-27505 Directed Study-Applied Voice I (V)** **3(3-0)**  
Private instruction in vocal technique is provided in lessons that meet 30 minutes per week. Repertoire is at the discretion of the instructor, including Italian and English literature, and styles of interest to the student. **Prerequisite:** MUS-27503 or permission of instructor. (*Humanities Credit*)
- MUS-27506 Directed Study-Applied Voice II (V)** **3(3-0)**  
This course is a continuation of Applied Voice I. **Prerequisite:** MUS-27505. (*Humanities Credit*)
- MUS-27507 Directed Study-Applied Voice III (V)** **3(3-0)**  
This course is a continuation of the techniques learned in Applied Voice II. Emphasis is on solo work and includes private lessons with the instructor. Classes involve ensemble warm-ups and mixed chorale harmonizing. **Prerequisite:** successful completion of MUS-27506 or permission of instructor. (*Humanities Credit*)



**MUS-27511 Kirtland Vocal Ensemble (V)****1(1-0)**

A performing choir ensemble which will provide training in basic choral techniques, and develop general musicianship. Repertoire accommodates the capabilities and interests of the students. Membership is open by audition to readers and non-readers of music from the community and the college. The class meets one night per week and may be elected in sequence four times. (*Humanities Credit*)

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## NURSING (NUR)

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**NUR-10502 Foundations of Nursing (F, W)****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-106-- Nursing Skills Lab (F)****1-3(variable)**

This is a nursing laboratory course designed to enable the student to update and review basic nursing skills. The modular approach allows for individualized self-paced instruction. **Prerequisite:** eligibility for course determined by nursing faculty.

**NUR-10700 Mental Health Concepts (F, W)****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 (F)****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 (F)****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-12304 Nursing Clinical II (W)****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 (F, W)****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-12602 Nursing Care of Children (W)****2(2-0)**

This course is designed to introduce the student to the concepts of pediatric nursing care. The course will include the health concerns confronting well and ill infants, children, & adolescents & their families, caretakers, and the community. Basic concepts & principles of growth and development will be integrated, as well as nutritional needs and variations of diet therapy. **Prerequisite:** admission into nursing program.

**NUR-12702 Nursing Care of Childbearing Family (W)****2(2-0)**

This is an introductory course designed to assist the student in applying the nursing process to the care of women, newborns, and families during childbearing. **Prerequisite:** admission into the nursing program.

**NUR-13302 Current Issues in Nursing (S)****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 (S)****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.

program.

**NUR-21400 Nursing Pharmacology (W)**

**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 pharmacological/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 (F)**

**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-22200 Critical Thinking in Adult Care (F,W)**

**4(4-0)**

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 (F,W)**

**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 (F,W)**

**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-23300 Pediatric Nursing Clinical (F,W)**

**1(0-3)**

This clinical course will provide the student with the opportunity to apply the concepts from Family Centered Pediatrics. The experiences will occur in selected hospital and community settings. **Prerequisite:** admission into the Level II nursing program, or permission of department.

**NUR-24200 Community Mental Health Nursing (F,W, S)**

**2.5(2.5-0)**

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-24301 Community Mental Health Nursing Clinical (F,W, S)**

**2(0-6)**

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 (F,W)**

**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-24700 OB/GYN Nursing Clinical (F,W)**

**1(0-3)**

This course is designed to permit the student an opportunity to apply the nursing process while giving care to women, newborns, and families, primarily during the childbearing period. Application of concepts will occur in selected hospital, clinic, and community sites. **Prerequisite:** admission into the Level II nursing program, or permission of department.

**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-25202 Professional Leadership (S)** **2(2-0)**  
This course is designed to prepare the student for entry into practice. Professional leadership issues as a registered professional nurse and community service will be explored. Communication skills and stress management will be examined. A preparation review for NCLEX is included. **Prerequisite:** admission into the Level II nursing program, or permission of department.

**NUR-25300 Clinical Leadership (S)** **1(0-3)**  
This course is designed to assist in the transition of student nurse to graduate nurse. Clinical leadership is emphasized. Students provide direct supervised nursing care to groups of clients with multiple and/or complex nursing care needs. **Prerequisite:** admission into the Level II nursing program, or permission of department.

**NUR-255-- Nursing Seminar (V)** **1-3(Variable)**  
This is a course designed to assist the student in meeting the requirements for graduation or reentry when a deficiency in clinical hours or clinical experience exists. **Prerequisite:** permission of instructor and the director of health careers.

**NUR-25508 Nursing Wellness Seminar (F,W, S)** **1(1-0)**  
This course consists of recommended screening to maintain health, fitness concepts, and stress management. It will help the student understand how an individual can plan a healthier lifestyle. **Prerequisite:** Level I graduate or permission of instructor.

**NUR-26001 Nursing Care of Adults (F)** **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-27000 Nursing Care of Special Populations (V)** **8(8-0)**  
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). 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 and PSY-10100.

**NUR-28000 Clinical Application of 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)

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## OFFICE INFORMATION SYSTEMS (OIS)

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**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 discussion and examination of methods of communication in business are provided, including instruction and practice in writing and constructing rough drafts, finished letters, and forms used in business. The course also includes a grammatical and mechanical foundation for preparing business correspondence with emphasis on successful human relations. Employability skills, including letters of appreciation, application forms, and interview techniques, are presented. **Prerequisite:** ENG-10303 or permission of advisor.
- OIS-10600 Introduction to Health Information Systems (F, W, S) (Formerly MOA-10500) 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; or permission of advisor.
- 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 or permission of advisor.
- OIS-10801 Medical Transcription I-A (F, W, S) 1**  
This course teaches transcription of authentic physician-dictated reports organized by body systems including dermatology, urology, and gastroenterology. Emphasis is on the development of accuracy, speed, and medical knowledge for the transcription of chart notes, history and physical examinations, and discharge summaries. It also teaches the student how to use reference materials and other resources efficiently. Editing and proofreading techniques and grammar and punctuation review are also included. **Prerequisites:** ENG-10303, and OIS-10703 or equivalent; or permission of advisor.
- OIS-10802 Medical Transcription I-B (F, W, S) 1**  
This course teaches transcription of authentic physician-dictated reports organized by body systems including orthopedics, cardiology, pulmonary, endocrinology, and obstetrics-gynecology. Emphasis is on the development of accuracy, speed, and medical knowledge for the transcription of chart notes, history and physical examinations, discharge summaries, letters, and consultations. It also teaches the student how to use reference materials and other resources efficiently. Editing and proofreading techniques and grammar and punctuation review are also included. **Prerequisites:** ENG-10303; and OIS-10801 or equivalent; or permission of advisor.
- OIS-10803 Medical Transcription I-C (F, W, S) 1**  
This course teaches transcription of authentic physician-dictated reports organized by body systems including ophthalmology, ear, nose, and throat, and neurology. Emphasis is on the development of accuracy, speed, and medical knowledge for the transcription of chart notes, letters, consultations, initial office evaluations, and history and physical examinations. It also teaches the student how to use reference materials and other resources efficiently. Editing and proofreading techniques and grammar and punctuation review are also included. **Prerequisites:** ENG-10303; and OIS-10802 or equivalent; or permission of advisor.
- 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. **Prerequisite:** permission of advisor.
- 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 or permission of advisor.
- 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 or permission of advisor.
- 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 or permission of advisor.
- OIS-11500 Medical Insurance Billing (F, W)** **3**  
 This course provides students with the knowledge and skills necessary to successfully perform the duties of an insurance billing specialist. It is a concentrated application to learning insurance billing, progressing from easy to more complex issues. Patients' medical records, ledgers, and encounter forms are presented so the student will learn how to abstract information to complete insurance forms properly and accurately. **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, or permission of advisor.
- 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. **Prerequisite:** OIS-10403 or permission of advisor.
- 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 or permission of advisor.
- 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 or permission of advisor.
- 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; or permission of advisor.
- 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, or permission of advisor.
- 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, or permission of advisor.
- 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. **Prerequisite:** permission of advisor.
- 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-20601 Medical Transcription II-A (F, W, S)**

**1**

This course teaches transcription of authentic physician-dictated reports organized by body systems including dermatology, urology, gastroenterology, and orthopedics.. Emphasis is on the development of accuracy, speed, and medical knowledge for more difficult transcription of consultations, discharge summaries, chart notes, history and physical examinations, and initial office evaluations. It also teaches the student how to use reference materials and other resources efficiently. Editing and proofreading techniques and grammar and punctuation review are also included. **Prerequisite:** OIS-10803 or equivalent, or permission of advisor.

**OIS-20602 Medical Transcription II-B (F, W, S)**

**1**

This course teaches transcription of authentic physician-dictated reports organized by body systems including cardiology, pulmonary medicine, endocrinology, and obstetrics-gynecology. Emphasis is on the development of accuracy, speed, and medical knowledge for increasingly difficult transcription of chart notes, discharge summaries, consultations, history and physical examinations, initial office evaluations, and emergency room reports. It also teaches the student how to use reference materials and other resources efficiently. Editing and proofreading techniques and grammar and punctuation review are also included. **Prerequisite:** OIS-20601 or equivalent, or permission of advisor.

**OIS-20603 Medical Transcription II-C (F, W, S)**

**1**

This course teaches transcription of authentic physician-dictated reports organized by body systems including otorhinolaryngology, ophthalmology, and neurology. Emphasis is on the development of accuracy, speed, and medical knowledge for increasingly difficult transcription of chart notes, discharge summaries, consultations, history and physical examinations, initial office evaluations, and emergency room reports. It also teaches the student how to use reference materials and other resources efficiently. Editing and proofreading techniques and grammar and punctuation review are also included. **Prerequisite:** OIS-20602 or equivalent, or permission of advisor.

**OIS-20701 Medical Transcription III-A (F, W, S)**

**1**

This course teaches transcription of authentic physician-dictated radiology and pathology reports. Radiology reports such as nuclear medicine, computer tomography, diagnostic imaging, ultrasound, mammography, and magnetic resonance imaging are included. Pathology reports such as autopsies, surgical pathology, and gross and microscopic pathology are included. Emphasis is on development of accuracy, speed, and medical knowledge. Reports are sequenced so terminology foundation builds as the student advances. Editing, proofreading, grammar, and punctuation review are emphasized. **Prerequisites:** OIS-20603 or permission of advisor.

**OIS-20702 Medical Transcription III-B (F, W, S)**

**1**

This course teaches transcription of authentic physician-dictated gastrointestinal and cardiology reports. Gastrointestinal reports such as emergency room notes, history and physical examinations, admissions notes, discharge summaries and operative reports are included. Cardiology reports such as consultations, admission notes, emergency room notes, history and physical examinations, discharge summaries, operative reports, and diagnostic procedures are included. Reports are sequenced so terminology foundation builds as the student advances. Editing, proofreading, grammar, and punctuation review are emphasized. **Prerequisites:** OIS-20701 or permission of advisor.

**OIS-20703 Medical Transcription III-C (F, W, S)**

**1**

This course teaches transcription of authentic physician-dictated orthopedic reports including history and physical examinations, discharge summaries, consultations, and operative reports. Reports are sequenced so terminology foundation builds as the student advances to the next report. Editing, proofreading, grammar, and punctuation review are emphasized. **Prerequisites:** OIS-20702 or permission of advisor.

**OIS-20800 Medical Keyboarding (F, W, S)**

**3**

This course is a concentrated application of processing medical documents typically used in a medical office setting. Emphasis is placed on speed building through the use of speed-building exercises and applications. **Prerequisites:** ALH-10101; and OIS-11403 or OIS-18203, or equivalent; or permission of advisor.

**OIS-20902 Introduction to Medical Billing & Coding (F, W)**

**2**

This introductory course is a concentrated application of various tasks that a medical clerk performs including methods for reviewing and completing health insurance forms, methods used for diagnosis and procedure coding systems, preparing and organizing patient charts and bills, and various professional activities performed by the medical clerk. The use of the computer is emphasized in each of these applications. **Prerequisites:** ALH-10101 or permission of advisor.

**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 or OIS-18203 or OIS-19003, or equivalent; or permission of advisor.

- 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, or permission of advisor.
- 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 or permission of advisor.
- 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, OIS-18203, or equivalent, or permission of advisor.
- 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-11403; and OIS-22200 or equivalent; or permission of advisor.
- OIS-22100 Office Pharmacology (F, W, S) 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 or permission of advisor.
- 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, OIS-11403, and OIS-17000 with a grade of “C” or better, or permission of advisor.
- OIS-24101 Internship - Administrative Assistant (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 - Advanced Word Processing Specialist (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.
- OIS-275-- Directed Study-Secretarial Science (V)** **1-6**  
 This course is designed to meet special occupational needs for individual students. **Prerequisite:** advisor recommendation.

## PHILOSOPHY (PHL)

- PHL-20100 Introduction to Philosophy (V)** **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 Introduction to Ethics (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)

- PHY-10501 Physical Science (F,W,S)** **3(4-0)**  
 This is a lecture and virtual laboratory classroom course in physical science. The course investigates fundamental matter and energy concepts in the physical universe through the use of selected materials from the areas of astronomy, chemistry, and physics. Attention is given to the methods of scientific inquiry and applications in technology. This course may be elected to meet the science requirement by those not majoring in science. **Prerequisite:** DEV-07300. **Corequisite:** MTH-10100 and PHY-10502. (*Science Credit*)
- PHY-10502 Physical Science Lab (F,W,S)** **1(0-2)**  
 This is a laboratory course to accompany PHY-10501. **Corequisite:** PHY-10501. (*Science Credit*)
- PHY-20101 General Physics I (F)** **4(4-0)**  
 This is an algebra-trigonometry-based lecture course in introductory physics. Topics will include general properties of energy and matter with emphasis on mechanics, heat and thermodynamics, and sound. **Prerequisite:** MTH-12100 or permission of instructor. **Corequisite:** PHY-20102. (*Science Credit*)
- PHY-20102 General Physics I Lab (F)** **1(0-3)**  
 This is a laboratory course to accompany PHY-20101. **Corequisite:** PHY-20101.
- PHY-20201 General Physics II (W)** **4(4-0)**  
 This is a continuation of General Physics I. Topics will include principles of electricity and magnetism, optics, and concepts of modern physics such as relativity and nuclear physics. **Prerequisite:** PHY-20100 or permission of instructor. **Corequisite:** PHY-20202. (*Science Credit*)
- PHY-20202 General Physics II Lab (W)** **1(0-3)**  
 This is a laboratory course to accompany PHY-20201. **Corequisite:** PHY-20201. (*Science Credit*)
- PHY-22101 College Physics I (V)** **4(4-0)**  
 This is an introductory lecture course that will provide a calculus-based background of basic principles and theories with practical applications; topics will include general properties of matter with emphasis on mechanics and waves; heat and thermodynamics, and sound. **Prerequisite:** MTH-22002. **Corequisite:** MTH-22102 and PHY-22102. (*Science Credit*)



**PHY-22102 College Physics I Lab (V)****1(0-3)**

This is a laboratory course to accompany PHY-22101. It will provide the student with a background of basic laboratory skills and experimental experience in approaching physical principles and theories with practical applications; topics will include electricity and magnetism, optics and light, modern physics, and nuclear physics. Emphasis will be placed on proper laboratory procedures and utilization of the Scientific Method. **Corequisite:** PHY-22101. (*Science Credit*)

**PHY-22201 College Physics II (V)****4(4-0)**

This is a continuation of PHY-22101 that will provide a calculus-based background of basic principles and theories with practical applications; topics will include electricity and magnetism, optics and light, modern physics, and nuclear physics. **Prerequisite:** PHY-22101. **Corequisite:** PHY-22202. (*Science Credit*)

**PHY-22202 College Physics II Lab (V)****1(0-3)**

This is an laboratory course that should be taken in tandem with the PHY-22201 physics lecture course. It will provide the student with a background of basic laboratory skills and experimental experience in approaching physical principles and theories with practical applications; topics will include electricity and magnetism, optics and light, modern physics, and nuclear physics. Emphasis will be placed on proper laboratory procedures and utilization of the Scientific Method. **Prerequisite:** PHY-22101 and PHY-22102. **Corequisite:** PHY-22201. (*Science Credit*)

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## PLUMBING (PLB)

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Courses beginning with the three-letter PLB designation are the plumbing courses offered at M-TEC<sup>SM</sup> at Kirtland-Gaylord. For more information, call 989-705-3600 or go to [mtec.kirtland.edu](http://mtec.kirtland.edu).

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## POLITICAL SCIENCE (POL)

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**POL-10100 Introduction to American Government (F,W,S)****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 (V)****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 (V)****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*)

**POL-24500 International Economics (V)** (Also listed as ECO-24500)**3(3-0)**

This course provides an introduction to the international economics for the understanding of the post-Cold War world with the new international system that has succeeded it--globalization. The course examines how globalization now shapes virtually all domestic policies and international relations. It offers a provocative look at the positive and negative impacts of globalization, including the historical, theoretical, and political blend of relationships between the nations, corporations, and individuals. **Prerequisite:** ECO-20100. (*Social Science Credit*)

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## PSYCHOLOGY (PSY)

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**PSY-10100 Introduction to Psychology (F,W,S)****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*)

**PSY-20200 Abnormal Psychology (V)****3(3-0)**

This course deals with the nature and causes of mental disorders. Particular attention will be paid to theories of abnormal behavior and various types of psychotherapy. Description of mental disorders will involve the use of the diagnostic and statistical manual of mental disorders (DSM IV). **Prerequisite:** PSY-10100. (*Social Science Credit*)

**PSY-24000 Lifespan Developmental Psychology (V)****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*)

**PSY-26001 Human Sexuality (F)** (Also listed as SOC-26001)**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*)

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## RECREATIONAL ENGINE TECHNOLOGY (RET)

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**RET-10100 Recreational Engine Technology I (V)****8(2-8)**

This course will provide fundamentals of service and repair for engines typically found in recreational vehicles such as snowmobiles and watercraft. Objectives for student learning will include topics such as personal safety, lab and tool safety, lab procedures, tool and equipment use, two-stroke cycle engine basic service, lubrication systems, exhaust systems, and recoil starting systems.

**RET-20100 Recreational Engine Technology II (V)****8(2-8)**

This course will provide advanced fundamentals of service and repair for engines typically found in recreational vehicles such as snowmobiles and watercraft. Objectives for student learning will include topics such as fuel systems, electrical systems, ignition systems, electrical starting systems, failure analysis, and leadership competencies. **Prerequisite:** RET-10100.

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## SOCIOLOGY (SOC)

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**SOC-10100 Introduction to Sociology (F,W,S)****3(3-0)**

This course is an introduction to the nature of society, culture, group relations, social processes, and institutions. **Prerequisite or corequisite:** ENG-10303. (*Social Science Credit*)

**SOC-24000 Criminology (F,W)** (Also listed as CJS-24000)**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. (*Social Science Credit*)

**SOC-24500 Social Deviant Behavior (F)** (Also listed as CJS-24500)**3(3-0)**

This course provides a study of social deviant behavior, including social and ethnic bias, sociopath, cult behavior and ethical behaviors within the criminal justice process. **Prerequisite:** PSY-10100 or SOC-10100. (*Social Science Credit*)

**SOC-26001 Human Sexuality (F)** (Also listed as PSY-26001)**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*)

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## SPEECH (SPE)

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**SPE-10500 Fundamentals 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 Introduction to Interpersonal & Public Communication (F,W)****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*)

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## THEATRE (THE)

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**THE-11001 Movement/Voice I (W)****3(3-0)**

Students will study the basics of voice exercises and movement, learning to free their bodies for communication of emotions, ideas, voice projection, enunciation, and character voices. In addition, stretching exercises will be used to increase the range of motion of the limbs and to develop the students' kinesthetic awareness. Rhythm exercises will expose students to the myriad variations in the rhythms of daily life. *(Humanities Credit)*

**THE-12000 Introduction to Theatre (F,W)****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,S)****1-3(Variable)**

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 (F)****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,S)****1-3(Variable)**

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-22200 Stagecraft II (W)****3(1-2)**

This course achieves the same goals and works on the same basics as Stagecraft I, but it allows the individual student the opportunity to specialize in a particular area of technical theatre. Each student will be required to commit to working 10 or more hours on a production during the semester. **Prerequisite:** THE-12200 or permission of instructor. *(Humanities Credit)*

**THE-22300 Acting II (W)****3(3-0)**

This course is a continuation of Acting I. It will focus on character analysis and the presentation of in-class scenes. The student can begin the preparation for competitive auditions in community theatres, colleges, universities, or pre-professional schools. As with Acting I, the course can work in conjunction with the semester's theatrical production. **Prerequisite:** THE-12300 or permission of instructor. *(Humanities Credit)*

**THE-22400 Directing I (W)****3(3-0)**

This course introduces the student to the fundamental artistic and practical responsibilities of the stage director. Topics include basic principles of directing, script sources, stage terminology, script analysis, casting, rehearsals, and performances. The student will engage in both traditional and experimental approaches to learning and will have the opportunity to practice directorial skills. **Prerequisite:** THE-12300 or permission of instructor. *(Humanities Credit)*

**THE-27000 Audition/Résumé 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*)

**THE-27511 Directed Study-Dance Exploration I (V)** **3(0-4)**  
This class exposes beginning-level students to the following dance styles: jazz, ballet, and modern dance. Students learn basic techniques of each style along with dance history and vocabulary. Classes consist of barre work, center floor technique, body awareness, improvisation, and choreography, developing in the student a basic foundation, understanding, and appreciation for the art of dance. **Prerequisite:** permission of instructor. (*Humanities Credit*)

**THE-27513 Directed Study-Performance Art Workshop (V)** **2(0-2)**  
The focus of this class is to develop, rehearse, and ultimately present an original performance art piece using the student's native skills, abilities, and creative instincts, while developing in the student an understanding of, and appreciation for, ensemble interplay. Using various forms of expression, students learn to use theme and mood to relate and/or contrast abstract concepts and ideas. Musicians, poets, studio artists, actors, and dancers create visual responses to thematic statements and then work to seamlessly present their work simultaneously. **Prerequisite:** permission of instructor (*Humanities Credit*)

**THE-27517 Directed Study-Performing Arts Internship (V)** **3(0-3)**  
The student works with a regional or national professional or semiprofessional performing arts company as a performer, designer, assistant designer, director, stage manager, or theatre technician. Employment must be selective and based on an application process, audition, or interview. **Prerequisite:** permission of instructor. (*Humanities Credit*)

**THE-27518 Directed Study-Advanced Studies In Theatre Workshop (V)** **3(3-0)**  
These workshops are area-specific studies for AFA Theatre students. These workshops may involve working in the theatre office, performing arts center office, backstage, or as a performer on a main stage performance. Ninety hours of work in the area selected and a program-specific paper are required to successfully complete this course. **Prerequisite:** permission of instructor. (*Humanities Credit*)

**THE-27521 Directed Study-Advanced Studies in Technical Theatre (V)** **4(4-0)**  
During this area-specific advanced study, students will select an area (set design, lighting design, stage management, sound, costumes, and makeup) and assist with this area for all main stage performances. At least ninety hours of work in the area selected and a program-specific paper or project are required to successfully complete this course. **Prerequisite:** permission of instructor. (*Humanities Credit*)

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## WELDING (WLD)

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Courses in the welding program at Kirtland can be used to satisfy the continuing education requirement for persons with the Certified Welding Inspector (CWI) credential through the American Welding Society (AWS). Additional welding courses are available at M-TEC<sup>SM</sup> at Kirtland-Gaylord. For a complete listing, call 989-705-3600 or go to [mtec.kirtland.edu](http://mtec.kirtland.edu).

**WLD-10000 Introduction to Welding**, **NOTE:** This course has been divided into modules WLD-10341 - WLD-10354.

**WLD-10200 Advanced Shielded Metal Art Welding**  
**NOTE:** This course has been divided into modules WLD-10355 - WLD-10363.

**WLD-10341 Welding Shop Safety Rules** **.17**  
This course will introduce the learner to welding lab safety regulations. In this course the student will learn the safety rules that help to make the job site safer for everyone.

**WLD-10342 Identifying Joints, Welds & Positions** **.13**  
This course will teach the student to recognize several types of joints, welds, and welding positions.

**WLD-10343 Measuring with Rules & Squares** **.13**  
This course will instruct the learner in the appropriate use of a rule and square.

**WLD-10344 Defining Oxyacetylene Welding Terms** **.17**  
This course will instruct the student in oxyacetylene welding and safety terms and definitions acceptable to welding industry standards.

<b>WLD-10345 Setting Up Oxyacetylene Welding Station</b>	<b>.08</b>
This course will teach the student to set up welding equipment in a safe and proper manner.	
<b>WLD-10346 Running Beads with and without Filler</b>	<b>.29</b>
This course will instruct the student how to run beads with and without a filler rod.	
<b>WLD-10347 Welding Basic Joints in Flat Position</b>	<b>1.0</b>
In this course the student will learn to weld basic joints in the flat position.	
<b>WLD-10348 Oxyacetylene, Plasma &amp; Carbon Arc Cutting Processes</b>	<b>.13</b>
This course will teach the student to recognize and identify the safety precautions, equipment, procedures, and techniques used in oxygen cutting.	
<b>WLD-10349 Cutting Ferrous Metals with Oxyacetylene Equipment</b>	<b>.33</b>
The student will learn the proper way to manually cut metal using oxyacetylene.	
<b>WLD-10350 Brazing Basic Joints in Flat Position</b>	<b>.33</b>
This course will instruct the learner in the proper way to braze basic joints in the flat position.	
<b>WLD-10351 Braze Welding V-Groove Butt Joint</b>	<b>.21</b>
This course will teach the learner the proper way to braze a V-groove butt joint using oxyacetylene.	
<b>WLD-10352 Arc Welding Terms &amp; Definitions</b>	<b>.17</b>
This course will introduce the student to the most common terms important to arc welding.	
<b>WLD-10353 Identifying &amp; Selecting Electrode for SMAW</b>	<b>.21</b>
This course will teach the student the features and properties of covered electrodes. It also explains the AWS electrode numbering system so the student can learn to identify the different covered electrodes, what electrodes are most commonly used, where and when they are used, and some distinguishing characteristics.	
<b>WLD-10354 Striking an Arc &amp; Running Stringer Beads</b>	<b>.67</b>
This course will teach the student how to strike and maintain an arc to run stringer beads.	
<b>WLD-10355 Analyzing Good Welding Character</b>	<b>.13</b>
This course will teach the student to recognize good welding characteristics, types of electrode characteristics, and types of machines and their settings. Knowledge of what constitutes a good weld and what constitutes a poor weld is also stressed.	
<b>WLD-10356 Multipass Fillet Welds - Flat Position</b>	<b>.50</b>
This course will teach the student to weld a basic lap joint using a multipass or weave weld that will meet or exceed the AWS standards for appearance, strength, and testing.	
<b>WLD-10357 Increasing Weld Size Using Weave Techniques</b>	<b>.50</b>
This course will provide the student with information on weaving an electrode and controlling the bead according to the position and requirements of the weld.	
<b>WLD-10358 V-Groove Butt Joint with Backing Plate</b>	<b>.50</b>
This course will instruct the student in welding a square butt joint with a backing plate using the SMAW method.	
<b>WLD-10359 V-Groove Butt Joint without Backing Plate</b>	<b>.67</b>
This course will teach the student to safely and correctly make a V-groove butt joint in the flat position according to AWS standards.	
<b>WLD-10360 Butt Joints with Backing Plate Vertical Up</b>	<b>.46</b>
This course will teach the student how to make a butt joint in the vertical up position with a backing plate.	
<b>WLD-10361 Butt Joints without Backing Plate Vertical Up</b>	<b>.75</b>
This course will teach the student how to make a butt joint in the vertical up position without a backing plate.	
<b>WLD-10362 Welding Blueprint Reading</b>	<b>.17</b>
This course will teach the student how to read welding blueprints and recognize how to use the various symbols and notations to assure that welded assemblies meet design requirements.	

<b>WLD-10363 Fabricating a Project</b>	<b>.50</b>
The student will learn how to develop a sketch (including weld symbols) of a project to build. The student will then order the material and complete the project to AWS standards.	
<b>WLD-20200 Advanced MIG &amp; TIG Welding, NOTE: This course has been divided into modules WLD-20400 - WLD-20406 (plus any additional .11 module to equal four credits).</b>	
<b>WLD-20400 Explaining Gas Metal Arc Welding</b>	<b>.29</b>
This module will teach the student the general principles of GMAW, some of the advantages and disadvantages of GMAW, and how the wire electrode is applied or transferred to the parent metal being welded.	
<b>WLD-20401 Establishing an Arc &amp; Making Beads with GMAW</b>	<b>.17</b>
This course will teach the student how to establish the arc and make weld beads using MIG equipment.	
<b>WLD-20402 Welding Basic Joints in All Positions</b>	<b>1.67</b>
This course will teach the student how to establish the arc and weld basic joints in all positions using MIG equipment.	
<b>WLD-20403 Welding Basic Joints With GMAW Aluminum</b>	<b>.67</b>
This course will teach the student to establish an arc and make welded joints using the GMAW aluminum process.	
<b>WLD-20404 Pulse Arc Welding</b>	<b>.25</b>
This course will teach the student the basic fundamentals of the pulse arc welding mode.	
<b>WLD-20405 Explaining Gas Tungsten Arc Welding</b>	<b>.42</b>
This course will teach the student the basics of the TIG process, equipment, welding machines, and electrodes.	
<b>WLD-20406 Starting an Arc &amp; Running Stringer Beads</b>	<b>.42</b>
This course will teach the student how to start an arc and run stringer beads on aluminum using TIG equipment.	
<b>WLD-20407 Directed Study-Welding Techniques</b>	<b>4.00</b>
This course is designed to meet special occupational needs for the individual student. <b>Prerequisite:</b> recommendation of an advisor.	
<b>WLD-20419 Complete 10 Welder Qualifications</b>	<b>4.00</b>
Students complete 10 welder qualification using SMAW, OAW, GMAW, GTAW, and plasma arc. A drawing, layout, and a completed welding project are required in the course, and students complete a variety of welding repairs during the course.	
<b>WLD-20420 Cutting Ferrous &amp; Non-Ferrous Metals with Plasma</b>	<b>.33</b>
In this course the student will learn how to cut both ferrous and non-ferrous metals by manual and automatic means.	
<b>WLD-20421 Cutting Ferrous Metal With Carbon Arc Gouging</b>	<b>.13</b>
In this course the student will learn to identify terms and definitions of the air carbon arc cutting, as well as utilize the process to acceptable industry standards.	
<b>WLD-20422 Silver Brazing Dissimilar Metals</b>	<b>.13</b>
In this course the student will learn to solder using silver.	
<b>WLD-20423 Lead Soldering Seams</b>	<b>.25</b>
This course will teach the learner to solder joints of ferrous and non-ferrous metals.	
<b>WLD-20424 Making a Corner Joint - Flat Position</b>	<b>.67</b>
This course will teach the student the proper way to make a smooth corner weld.	
<b>WLD-20425 Welding Tee Joints - Vertical Up</b>	<b>.58</b>
This course will teach the student how to make a tee joint in the vertical up position.	
<b>WLD-20426 Welding Tee Joints - Vertical Down</b>	<b>.29</b>
This course will teach the student how to make a tee joint in the vertical down position.	
<b>WLD-20427 Butt Joint with Back Plate - Vertical Down</b>	<b>.42</b>
This course will teach the student how to make a butt joint with back plate in the vertical down position.	
<b>WLD-20428 Butt Joint without Back Plate - Vertical Down</b>	<b>.33</b>
This course will teach the student how to make a butt joint without a back plate in the vertical down position.	

<b>WLD-20429 Butt Joint with Back Plate - Horizontal</b>	<b>.50</b>
This course will teach the student how to make a butt joint with a back plate in the horizontal position.	
<b>WLD-20430 Butt Joint without Back Plate - Horizontal</b>	<b>.50</b>
This course will teach the student how to make a butt joint without a back plate in the horizontal position.	
<b>WLD-20431 Weld Tee Joints Overhead</b>	<b>.50</b>
In this course the student will learn how to weld tee joints in the overhead position.	
<b>WLD-20432 Butt Joint with Back Plate - Overhead</b>	<b>.58</b>
In this course the student will learn to weld butt joints with a backing plate in the overhead position.	
<b>WLD-20433 Butt Joint without Back Plate – Overhead</b>	<b>.83</b>
In this course the student will learn how to weld butt joints without a backing plate in the overhead position.	
<b>WLD-20434 Identifying Pipe Welding</b>	<b>.21</b>
In this course the student will learn some of the codes governing pipe welding and the tests they must take to qualify. The student will also discuss pipe joint design, edge preparation, and accessories for pipe welding.	
<b>WLD-20435 Cast Iron Repair</b>	<b>.17</b>
In this course the student will learn the basics of cast iron repair.	
<b>WLD-20436 Hard surfacing</b>	<b>.17</b>
In this module, the student will learn how to hard surface material by one or more techniques, including fusion welding.	
<b>WLD-20437 Tool &amp; Die Welding</b>	<b>.67</b>
This course will teach the student to identify and follow proper procedures to make necessary repairs on tool and dies in accordance with industry standards.	
<b>WLD-20438 Weld Basic Joints on Aluminum</b>	<b>1.25</b>
This course will teach the student how to weld aluminum in the flat position (GTAW).	
<b>WLD-20439 Weld Basic Joints on Stainless Steel</b>	<b>1.25</b>
This course will teach the student the proper way to weld stainless steel in the flat position.	
<b>WLD-20440 Weld Basic Joints on Aluminum - Horizontal</b>	<b>1.67</b>
This course will teach the student how to run beads in three positions when welding four basic joints: butt, tee, lap, and corner.	
<b>WLD-20441 Weld Pipe 2G Fixed Position</b>	<b>.83</b>
This course will instruct the student in positioning, tacking, and welding pipe in the 2G fixed position.	
<b>WLD-20442 Weld Pipe 5G Fixed - Vertical Up</b>	<b>1.25</b>
This course will instruct the student in positioning, tacking, and welding pipe in the 5G fixed position - vertical up.	
<b>WLD-20443 Weld Pipe 5G Fixed - Vertical Down</b>	<b>1.04</b>
This course will instruct the student in positioning, tacking, and welding pipe in the 5G fixed position - vertical down.	
<b>WLD-20444 Weld Pipe 6G Fixed Position</b>	<b>1.04</b>
This course will instruct the student in positioning, tacking, and welding pipe in the 6G fixed position.	
<b>WLD-275-- Directed Study-Welding Technology (V)</b>	<b>1-6(Variable)</b>
This course is designed to meet special occupational needs for the individual student. <b>Prerequisite:</b> recommendation of an advisor.	

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## WORLD LANGUAGES

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<b>FRE-11000 French I (V)</b>	<b>4(4-0)</b>
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. ( <i>Humanities Credit</i> )	

**FRE-12000 French II (V)****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 (V)****2(0-2)**

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,W)****4(0-4)**

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 (F,W)****4(0-4)**

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(0-4)**

This course is a continuation of American Sign Language II. **Prerequisite:** SGN-10100. (*Humanities Credit*)

**SPN-11000 Spanish I (V)****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 (V)****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

Charles D. Rorie, President

A.A. Texas Junior College  
B.A. Sam Houston University  
M.S. Texas A&M University  
Ph.D. University of Texas at Austin

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

Karen Brown, Associate Dean of Instruction

B.S.N. University of Michigan  
M.S. University of Michigan  
Ed. D. Central Michigan University

Louise Bucco, Director of Library

B.S. James Madison University  
M.L.S. University of Maryland

JoAnn Comerford, Director of Facilities

A.A.S. Kirtland Community College  
B.B.A. Northwood University

Edmund Koliba, Chief Business and Financial Officer

B.S. Oakland University  
M.B.A. Saginaw Valley State University

Doty Latuszek, Provost: M-TEC

B.S. Nazareth College  
M.A. Western Michigan University  
Ph.D. Western Michigan 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

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: Guidance and Counseling

B.A. Syracuse University  
M.S. State University College at Oneonta

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

B.A. Wayne State University  
M.A. Wayne State University

Katherine Girard, Instructor: Health Careers

A.D.N. Kirtland Community College  
M.S.N. Saginaw Valley State University

Judith Grenkowicz, Instructor: Business

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

Shannon Hasty, Instructor: Cosmetology  
A.A.S. Kirtland Community College

Anne Hauser, Instructor: Science  
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  
B.S. Western Michigan University  
M.A. Central Michigan University

Kate Jakobson, Director of Tutoring and Student Success  
B.S. Grand Valley State University  
M.S. Western 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  
M.B.A. Baker College

Alan Mabarak, Instructor: Construction Trades, M-TEC  
A.A.S. Macomb Community College  
B.S. Central Michigan University  
M.A. Spring Arbor University

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

Stephen Oppy, Coordinator/Counselor  
B.A. Oakland University  
M.A. Central Michigan University

Susan Owens, Instructor: Health Careers  
B.S.N. Hope College  
M.S.N. Northern Michigan University

Nancy Pavelek, Instructor: Health Careers  
A.D.N. Kirtland Community College  
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  
A.A.S. Kirtland Community College  
B.S. Central Michigan University  
M.A. Central Michigan University

Jacquelyn Smith, Instructor: Nursing  
B.S.N. Northern Michigan University  
M.S.N. Wayne State University

Kathryn Taylor, Instructor: Office Information Systems  
B.S. Central Michigan University  
B.S. Central Michigan University  
M.A. Central Michigan University

John Thiel, Instructor: History  
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

Ginna Wenger, Instructor: English  
B.A. Central Michigan University  
M.A. Central Michigan University  
Ph.D. Andrews University

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## FULL-TIME CLASSIFIED STAFF

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Mark Allen, Director: Auxiliary Services/Purchasing  
A.A.S. Northwood University  
B.S. Northwood University

Susanne Allen, Coordinator: Admissions/Recruiting  
A.A. Kirtland Community College  
B.S. Spring Arbor University

Nick Baker, Data Coordinator  
B.S. Lake Superior State University

Kathleen Barber, Coordinator: Personnel & Business Services

Kristin Barnhart, Bookkeeper, Payroll  
B.B.A. Western Michigan University

Luann Beilfuss, Registrar  
B.S.W. Ferris State University  
M.A. Spring Arbor University

Matthew Biermann, WAN Administrator

Victoria Borchers, Bookstore Assistant

Brenda Brager, Printing Technician

Mark Burger, Director: eServices  
A.A.S. Ferris State University  
B.B.A. Wichita State University

Rick Daugherty, Coordinator: Technology Support

Angie DeVries, Receptionist/Mail Processor

Elizabeth Ehinger, Coordinator: Special Populations  
A.A.S. Lake Superior State University

James Enger, Director: Marketing

Marjorie Esch, Webmaster  
B.A. Goshen College

Anne Essmaker, Coordinator: Health Careers  
A.A.S. Macomb Community College  
B.A. Spring Arbor College

Terry Fasbender, Director: Printshop  
A.A.S. Ferris State University

Jo Ann Gave, Student Services Assistant

Kathy Graham, Registration Support Specialist  
C.C. Kirtland Community College

Gary Gregg, Custodian

Gordon Hesse, Custodian

Jeffrey Hinkle, Maintenance

Christin Horndt, Director: Financial Aid  
A.A.S. Kirtland Community College  
B.B.A. Baker College  
M.A. Central Michigan University

Shawn Kaniewski, Coordinator: Criminal Justice Services  
A.A.S. Kirtland Community College  
B.S. Saginaw Valley State University

Kurt Kiessel, Utility Worker

Kathryn Koch, Administrative Assistant to the President  
A.A.S. Kirtland Community College  
A.B.A. Kirtland Community College  
B.B.A. Northwood University

Winifred Kolka, Coordinator: eTechnology

Audrey Larkin, Financial Aid Specialist  
A.A.S. Kirtland Community College  
B.B.A. Baker College

Kerry Lashley, Coordinator: eLearning  
A.A.S. Kirtland Community College

Jackie Liddle, Conference Services Specialist  
C.C. Kirtland Community College

Tony Madaj, LAN Administrator  
A.A.S. Kirtland Community College

Mark McCully, Director: Workforce Development  
A.A.S. Kirtland Community College  
B.S. Ferris State University

Dawn McGillis, Coordinator: Instructional Services

Cathy Meadows, Food Service Assistant/Catering Coordinator  
C.C. Kirtland Community College

Joseph Meadows, Maintenance II

Fred Miracle, Maintenance

Larry Miracle, Utility Worker

Kyle Morrison, eServices Media Specialist  
A.A.S. Kirtland Community College

Mark Nagel, Custodian

Debra Near, Office Support Specialist: Health Careers  
A.A.S. Kirtland Community College  
B.S. Spring Arbor University

Suzanne Nelson, Bookkeeper, Accounts Payable

Dennis Noel, Custodian

Roberta Otwell, Office Support Specialist, M-TEC  
A.A.S. Kirtland Community College

Tonya Ouillette, Admissions Assistant  
A.A.S. Kirtland Community College

Kimberly Ruddy, Bookkeeper, Accounts Receivable  
A.A.S. Kirtland Community College

Evelyn Schenk, Physical Plant Assistant  
A.A.S. Kirtland Community College  
B.S. Ferris State University

Mark Schroeder, Groundskeeper

Karen Sessions, Faculty Support Specialist  
A.A.S. Kirtland Community College  
B.S. Spring Arbor University

Ron Sharpe, Maintenance II

Daron Shimel, Coordinator: Skilled Trades Lab, M-TEC  
C.C. Kirtland Community College  
A.A.S. Kirtland Community College

Stanley Souva, Custodian

Ilene St. Onge, Director: Accounting

Rodger Steinbrink, Custodian

Robert Wallace, Custodian

Gail Westmoreland, Administrative Assistant M-TEC  
B.A. National University

Kathleen Wray, Counseling Office Support Specialist/  
Transfer Credit Specialist  
B.S. Harding University

Helen Yopp, eLearning Specialist  
A.A.S. Kirtland Community College

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## KIRTLAND COMMUNITY COLLEGE FOUNDATION

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The Kirtland Community College Foundation was established in 1972 for the purposes of soliciting funds to augment and extend the financial base of the college. The Foundation is a tax-exempt nonprofit corporation. Funds are used for capital construction, scholarships, library acquisitions, fellowships, faculty improvement grants, and the equipping and staffing of existing programs with modern tools of technology.

The Foundation officers and members work closely with the college board of trustees and the administration. A member of the college board of trustees serves as a member of the Foundation and the President of the college serves as secretary of the Foundation.

### Members as of April 2006

C. A. Pepper Karstendiek, President      Bill Gannon, Vice President      Ruggero Dozzi, Treasurer      Charles D. Rorie, Ph.D., Secretary

Warren Bontrager

William Curnalia

Loretta Hassan

Sandra Millikin

Pauline Cournyer

Ruth Ferguson

Teresa Money

# KIRTLAND COMMUNITY COLLEGE ADVISORY COMMITTEES

Advisory committees for individual occupational programs at Kirtland provide information concerning competencies needed by employees, physical facilities and types of equipment used in the business or industry, technical curriculum content, and recruitment opportunities. Members also assist with promotion of the programs, evaluation of programs, job placement, and work experience. At times advisory members are instrumental in acquiring donations of equipment and supplies for occupational programs.

## Automotive

Jeremy Akin	Chuck Huber	Darrin Neal
Richard Bonk	Matt Jernigan	Robert Oakes
Karen Brown	Chris Kalthoff	David Petrie
Jim Decker	Ed Krause	James Witt
Keith Hough	Bernie Milnes	

## Construction Technology (M-TEC)

Mitch Borowiak	Alan Mabarak	Steve Pyke
Doty Latuszek	Eric Moore	Linda Wisely

## Corrections

Doug Atkinson	William Gutzwiller	Robert Paschke
Julie Aube	Randy Hazel	Roger Palmiter
Louis Basso	Arlin Herford	Tom Recker
Jerry Boerema	Charles Hinman	Michael Redman
Douglas Bean	Jerome Newton	Mark Sabin
Michael Boyd	Richard Kaledas	Patricia Skarbek
Jeffrey Conquest	Robert Lancaster	Dale Suiter
Dave Dagen	Barney Ledford	Lee Teschendorf
David Deeter	Deborah Marculis	James Twarog
Douglas Dosson	Andrea Martin	Gary Van Ripper
Justin Eastman	Babbette Meggison	Russell Wayne
Scott Feldhauer	Dennis Murphy	Greg Wood
Brenda Ford	Matthew Nowicki	

## Cosmetology

Karen Brown	Patrick Hanafin	Tim O'Karski
Greg Bush	Shannon Hasty	Mary Rom
Ann Colcanclasure	Teresa Henry	Wendy Sheldon
Christi David	Nancy	Debbie Wilson
Roxie Fernelius	Magdama	Robin Winton
Billie Grezeszak	Carmen Miller	

## Criminal Justice/Law Enforcement Consortium

Douglas Atchison	Michael Miles	John Vinson
Rick Benson	Thad Taylor	Robert Wagner
Jerry Boerema		

## Engineering & Design Technologies

Charles Adams	Don Duggar	Jason Prout
Jacob Ames	Dale	Chris Squires
Dan Beltz	Eisenbrenner	Peter Vejckik
Mark Brown	Donald Gusler	Gerry Wangler
Dave Clover	Kerry Harwood	Lee Wiltse
Robert Devine	Doty Latuszek	Kevin Zettle
	Jack McCauley	

## Industrial Technologies (M-TEC)

Jim Gothrup	Kerry Harwood	Dan Schirle
John Brunk	Doty Latuszek	Duane Wong

## Marketing/Business

Vickie Barnes	Judith	Connie Schreiber
Carl Bourdelais	Grenkowitz	Denis Weiss
Lois Byrd	Carl Kummer	Barbara Whittington
Ken Cramer	Kerry Lashley	Bonnie Wichtner-Zoia
Steve Oppy	Steve Leonard	Mike Wurtsmith
	Donna Pflum	

## Massage Therapy

Mary Berger	Alan Karoub, D.C.	Nancy Pavelek
Karen Brown	Allen Neubecker	Sr. Jean Umlor
Carolyn Courneya	Mary Jo Oppy	Frank Varga
Kathie Ehinger	Ken Paulson, D.C.	Deb Walker

## Nursing

Sheila Atwood	Polly Flippo	Sue Lovelace
Debbie Bills	Carrie Girard	Judy Moran
Karen Bloom	Rose Goick	Helen Roach
Mary Bohls	Sue Grisso	Lisette Schudell
Nancy	Shirley Haan	Gay Showalter
Bottomley	Martha Hang	Susan Shurtz
Jill Carson	Maureen Hayes	Mary Steele
Suzanne Cleere	Jane Henderson	Lisa Stier
Barb Cliff	Jill Hubert	MichelleSynkowski
Linda Coffell	Catherine Judkins	Lori Taylor
Noreen Connelly	Mary Juriga	Ellie VanDiver
Kathy Dankert	Denise Kennedy	Pat Visscher
Gleniss Daversa	Joy Klooster	Dawn Webber
Karen Farley	CyndeKochensparge	Rochelle Whitmore
Jacque Farrens	r	Kathy Zelinsky
Jim Fischer	Jane Korthase	

## Office Information Systems

Sharon Blasch	Nancy Kussrow	Judy Ranney
Karen Brown	Lorraine	Lori Rau
Sarah Bruder	Landenburg	Brenda Rinke
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
Joann Enboden	Diane Moerland	Sherry Trierweiler
Laura Gooder	Tonya Ouillette	Jill Uhouse
Sue Henry	Bobbie Otwell	Dawn Ward
Penny Jenereaux	Kathy Painter	Gail Westmoreland
	Lydia Peters	

## Outdoor Power Engines (M-TEC)

Jim Ellafaits	Jim Lappan, Jr.	John Martin
Kerry Harwood	Doty Latuszek	

## Special Populations

Stacey Barnes	Betty Ehinger	Steve Oppy
Luann Beilfuss	Marie Hampton	Tim Scherer
Maureen Cassidy	Doty Latuszek	Dale Shantz
Brenda Dawe	Kathy Marsh	GINNA WENGER
Don Dyer	Chuck Nienhuis	

