



LAKE MICHIGAN
COLLEGE

2010-2011 College Catalog



the *Lake effect...*
on the rest of your **life**SM



2010-2011 Lake Michigan College Catalog

Napier Avenue Campus

2755 East Napier Avenue
Benton Harbor, MI 49022, (269) 927-8100



M-TECSM at Lake Michigan College

400 Klock Road
Benton Harbor, MI 49022, (269) 926-6832



Bertrand Crossing Campus

1905 Foundation Drive
Niles, MI 49120, (269) 695-1391



South Haven Campus

125 Veterans Boulevard
South Haven, MI 49090, (269) 637-7500



Lake Michigan College Mission & Values

Mission

The philosophy of Lake Michigan College, an institution of higher education, is founded on the belief that education is for all who wish to develop their potential. It is fundamental that a community college assist in meeting the educational, career, cultural, wellness and recreational needs of the community it serves. This involves a five-fold obligation:

- to provide for the educational aspirations, needs and learning expectations of the individual and the community;
- to provide for the occupational needs and desires of the learner and the community;
- to provide for the cultural interests and the wellness and recreational needs of the individual, and thus contribute to the development of effective citizens;
- to provide an assurance of quality in programs and in people;
- to develop an international perspective that prepares students, and develop employees and community members for a world economy and global citizenship.

Values

How Lake Michigan College accomplishes its mission is as important as the mission itself. Fundamental to success for the College are certain basic values:

- **Excellence**
Every College program and service must be of the highest quality.
- **Student-Centered/Customer-Focused**
Lake Michigan College must know and understand its students and community.
- **Responsive**
Programs and services must respond to the needs of students and the community, with constant review, analysis, research and action.
- **Diversity**
The College should strive to create a diverse community that represents all segments of society, including women, ethnic -minorities and people with disabilities, in its student body, faculty and staff.
- **Caring**
The campus atmosphere should promote caring for one another as colleagues, including recognition of faculty and staff for exceptional performance, open and honest communication, shared planning, participative management, encouragement of responsible and creative risk-taking, and provisions for professional development. This atmosphere must extend to students and the community.

Information contained in the 2010-2011 Lake Michigan College Catalog is, to the best knowledge of the Lake Michigan College staff, considered correct when published in 2011. However, this Catalog should not be considered a contract between Lake Michigan College and any student. Lake Michigan College reserves the right to make changes in tuition, fees, admission requirements, policies, graduation requirements, and curricula without notice or obligation. For the most current information, visit the Lake Michigan College Web site.



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Academic Calendar 2010-2012

Lake Michigan College has three semesters. Fall, Winter, and Summer semesters are each fourteen (14) weeks long. And each semester may offer a variety of class session lengths; fourteen (14) weeks, seven (7) weeks, and five (5) weeks. This calendar includes important dates for each semester. The calendar is subject to change. Dates and events are added or changed as information becomes available.

Fall 2010 Semester

Sep-07 Semester Begins
Nov-24 Clinicals in session
Nov 24-28 Thanksgiving Break, No Classes, College Closed
Dec-19 Semester Ends
Dec 24- Jan 2 Winter Break, College Closed

Winter 2011 Semester

Jan-10 Semester Begins
Feb-17 Professional Dev Day - No Classes
Feb 28-Mar 6 Spring Break - No Classes, College Open
Apr 22-24 Spring Recess - No Classes, College Closed
Apr-30 Semester Ends
May-01 Graduation Ceremony

Summer 2011 Semester

May-09 Semester Begins
May 28-30 Memorial Day - No Classes, College Closed
Jul 2-4 Independence Day - No Classes, College Closed
Aug-15 Semester Ends

Fall 2011 Semester

Sep-06 Semester Begins
Nov-23 Clinicals in session
Nov 23-27 Thanksgiving Break, No Classes, College Closed
Dec-18 Semester Ends
Dec 23- Jan 2 Winter Break, College Closed

Spring 2012 Semester

Jan-17 Semester Begins
Feb-23 Professional Dev Day - No Classes
Mar 5-11 Spring Break - No Classes, College Open
Apr 6-8 Spring Recess - No Classes, College Closed
May-05 Semester Ends
May-06 Graduation Ceremony

Summer 2012 Semester

May-11 Semester Begins
May 26-28 Memorial Day - No Classes, College Closed
Jul-4 Independence Day - No Classes, College Closed
Aug-11 Semester Ends



Where to Find It

Admissions

Napier Avenue Campus269-927-8626
Location: D201

Advising

Career and academic advising, scheduling, transfer advising, personal advising as it relates to educational goals and objectives

Napier Avenue Campus269-927-8128
Location: Richard J. Pappas Student Services Center
Hours: M-Th 9 a.m. - 7 p.m., F 9 a.m. - 4 p.m. by appointment

Bertrand Crossing Campus269-695-1391
Location: Student Services
Hours: M-Th 9 a.m. - 7 p.m., F 9 a.m. - 4 p.m. by appointment

South Haven Campus269-637-7500
Location: Student Services area
Hours: M-Th 9 a.m. - 7 p.m., F 9 a.m. - 4 p.m. by appointment

Alumni Association

Alumni events and awards

Napier Avenue Campus269-927-6849
Location: Room A313

Apprentice Training

M-TECSM at Lake Michigan College269-926-2136
Location: Room MT101

Arts & Sciences

Napier Avenue Campus269-927-6745
Location: Room C222

Assessment

Napier Avenue Campus269-927-6173
Location: Room B200
Hours: M 9 a.m. - 1 p.m. & 5 - 8 p.m., T 9 a.m. - 5 p.m., W 9 a.m. - 1 p.m. & 5 - 8 p.m., Th 1 - 8 p.m., F 11 a.m. - 3 p.m.
Hours are subject to change

Bertrand Crossing Campus269-695-1391
Location: Student Services
Hours: Computerized assessment testing
M-Th 8 a.m. - 6 p.m., F 8 a.m. - 2 p.m.
Paper & pencil assessment testing and Health Science testing by appointment

South Haven Campus269-637-7500
Location: Student Services area
Hours: M-Th 8 a.m. - 7 p.m., F 8 a.m. - 3 p.m.

Athletics

Intercollegiate sports

Napier Avenue Campus269-927-6172
Location: Room D103

Bertrand Crossing Campus

1905 Foundation Drive, Niles, MI 49120269-695-1391
Hours: Fall & Winter M-Th 8 a.m. - 8:30 p.m., F 8 a.m. - 4 p.m.
Spring & Summer - Hours may vary. Please call office for confirmation

Bookstore

Napier Avenue Campus269-927-6713
Location: S121
Fall & Winter Hours: M-Th 8:30 a.m. - 6:30 p.m., F 8:30 a.m. - 1:30 p.m.
Sat/Sun - closed
Spring & Summer Hours: M-Th 9 a.m. - 6:30 p.m., F 9 a.m. - 1 p.m.
Sat/Sun - closed

South Haven Campus269-637-7500 ext. 7123
Locations: Lobby
Hours: M-Th 9 a.m. - 6 p.m.; F 9 a.m. - 1 p.m.; Sat/Sun Closed

Business Office/Cashier

Napier Avenue Campus269-927-8610
Location: A207, Richard J. Pappas Student Services Center
Hours: M-F 8 a.m. - 5 p.m., extended hours during peak registration

Career Services Center

Career counseling, occupation information, job search resources

Napier Avenue Campus269-927-6284
Location: A209, Richard J. Pappas Student Services Center
Hours: M-F 8 a.m. - 5 p.m., evenings by appointment

Bertrand Crossing Campus269-695-1391
Location: Room 101
Hours: M-F, By appointment only

South Haven Campus269-637-7500
Location: Student Services Area
Hours: M-F by appointment only

Career Education

Napier Avenue Campus269-927-8111
Location: Room C122

Cashiers Office

Tuition payments, billings

Napier Avenue Campus269-927-8610
Location: A207, Richard J. Pappas Student Services Center
Hours: M-F 8 a.m. - 5 p.m.

Bertrand Crossing Campus269-695-1391
Location: Student Services
Hours: M-Th 8 a.m. - 7 p.m.; F 8 a.m. - 4 p.m.

South Haven Campus269-637-7500
Location: Student Services area
Hours: M-Th 7:30 a.m. - 9 p.m.; F 7:30 a.m. - 5 p.m.

Child Care Center (Kidzone)

On-campus infant, pre-school, and child care for children between the ages of 2 weeks and 12 years of students, employees, and community members

Napier Avenue Campus269-927-6293
Location: B-107
Hours: M-F 6 a.m. - 6 p.m., evening care available Fall and Winter semesters 6 p.m. - 10 p.m., M-TH only

South Haven Campus269-637-7501
Hours: M-F 6 a.m. - 6 p.m., evening care available Fall and Winter semesters 6 p.m. - 10 p.m., M-TH only

Community & Business Services

Continuing education, computer training, customized industry training

M-TECSM at Lake Michigan College269-926-4296
Location: Room MT101

Where to Find It

The David and Barbara Whitwam Catch the Dream Program

Assists Benton Harbor Area School district students, beginning in the sixth grade, prepare for post-secondary education

Napier Avenue Campus269-927-8166
Location: D113
Hours: M-F 9 a.m. – 5 p.m.
Benton Harbor Area Schools Staff Office269-927-5225

Early College

Dual enrollment and direct credit opportunities for area high school students

Napier Avenue Campus269-927-8100 ext. 5186

Educational Opportunity Center

Academic, vocational, career advising, and enrollment services

Napier Avenue Campus269-927-8100 ext. 5031
Location: C209, Richard J. Pappas Student Services Center
Hours: M-F 8 a.m. - 5 p.m.

Educational Talent Search

Assists Benton Harbor and Covert students graduate from high school and enroll in the college of their choice

Napier Avenue Campus269-927-8100 ext. 5228
Location: Rooms L302a and L305, Richard J. Pappas Student Services Center
Hours M-F 8 a.m. - 5 p.m.

Financial Aid

Financial aid, scholarships and work study

Napier Avenue Campus269-927-8112
Location: A202, Richard J. Pappas Student Services Center
Hours: M-F 8 a.m. - 5 p.m.
Bertrand Crossing Campus269-695-1391
Location: Room 101
Hours: M-Th 8 a.m. - 8:30 p.m.; F 8 a.m. - 4 p.m.
South Haven Campus269-637-7500
Location: Student Services
Hours: M-Th 7:30 a.m. - 9 p.m., F 7:30 a.m. - 5 p.m.

Honors Program

Honors courses and activities

Napier Avenue Campus269-927-8100 ext. 5016
Location: Room C125b

Human Resources

Napier Avenue Campus269-927-8132
Location: A303

International Student Services

Napier Avenue Campus269-927-8100 ext. 5008
Location: D201a, Richard J. Pappas Student Services Center
Hours: M-F 8 a.m. - 4 p.m.

Learning Assistance Center

Tutoring services

Napier Avenue Campus269-927-8100 ext. 5169
Location: Room B202
Hours: M-Th 8 a.m. - 8 p.m., F 8 a.m. - 3 p.m., Sat. by appointment

Library - William Hessel Library

Napier Avenue Campus269-927-8605
Location: Room 118-W
Fall & Winter Hours: M-Th 8 a.m. - 9 p.m., F 8 a.m. - 4 p.m.,
Sat 10 a.m. - 2 p.m.
Spring & Summer hours: M-Th 8 a.m. - 6:30 p.m., F 8 a.m. - 4 p.m.
Interim: M-F 8 a.m. - 4 p.m.
Library web page: www.lakemichigancollege.edu/lib/

M-TECSM at Lake Michigan College

400 Klock Road, Benton Harbor, MI 49022269-926-6832

Math Center

Napier Avenue Campus269-927-7097
Location: Room B208
Fall and Winter Hours: M 12:40 – 4 p.m. & 6 – 8:10 p.m., T-Th 9:10 a.m. – 4 p.m.
& 6 – 9:10 p.m., F 9:10 a.m. – 12:30 p.m., Sat 8 a.m. – 12:20 p.m.
Spring and Summer Hours: M-Th 8 a.m. – 12:30 p.m. & 6 – 8:10 p.m.

Mendel Center for Arts & Technology

Napier Avenue Campus269-927-1000
Conference & Event Services, Advanced Technology Center,
Grand Upton Hall, Hanson Theatre, and Mainstage

Mendel Mainstage Box Office

Tickets for Mainstage and student performance events

Napier Avenue Campus269-927-1221
2755 E. Napier Avenue, Benton Harbor, MI 49022

Munchy's Café

Beverages, salads, soups, sandwiches

Napier Avenue Campus269-927-8100 ext. 5276
Location: First floor across from the Bookstore

Napier Avenue Campus

2755 E. Napier Avenue, Benton Harbor, MI 49022269-927-8100

Program Information

Math, Physical Education269-927-8100 ext. 5070
Social Studies, Humanities, Fine Arts269-927-8100 ext. 5016
Nursing, Medical Imaging, Dental Assisting269-927-8100 ext. 5090
Business, Computer Info Systems, Industrial Tech269-927-8100 ext. 5044
English269-927-8100 ext. 5184
Transitional Studies269-927-8100 ext. 5183
Humanities, Fine Arts269-927-5100 ext. 5017
Science269-927-8100 ext. 5075

Records Office

Student record information, name and address changes, transcripts, graduation audits and information, enrollment verification, admissions application processing

Napier Avenue Campus269-927-8107
Location: Room A222, Richard J. Pappas Student Services Center
Hours: M-F 8 a.m. - 5 p.m.

Where to Find It

Registration & Student I.D. Cards

Napier Avenue Campus269-927-8119
Location: Room A208, Richard J. Pappas Student Services Center
Hours: M-F 7:30 a.m. - 5 p.m.
M-Th 5 - 9 p.m.; Sat 8:30 a.m. - 1 p.m.....269-927-8128
Bertrand Crossing Campus269-695-1391
Location: Student Services
Hours: M-Th 8 a.m. - 7 p.m., F 8 a.m. - 4 p.m.
South Haven Campus269-637-7500
Location: Student Services area
Hours: M-Th 8 a.m. - 9 p.m., F 8 a.m. - 5 p.m.

Siena Heights at Lake Michigan College

Napier Avenue Campus269-927-6711
Location: Room C204

South Haven Campus

125 Veterans Boulevard, South Haven, MI 49090269-637-7500
Hours: M-Th 7:30 a.m. - 9 p.m., F 7:30 a.m. - 5 p.m.

Student Resource Center

Disability, single parent, displaced homemaker, non-traditional students, limited English proficiency
Napier Avenue Campus269-927-8100 ext. 5192
Location: Room C205, Richard J. Pappas Student Services Center
Hours: M-F 8 a.m. - 5 p.m., evenings by appointment

Student Life

Student activities, student government, student newspaper, Phi Theta Kappa
Napier Avenue Campus269-927-8100 ext. 5206
Location: D-103, next to the gym
Hours: M-F 8 a.m. - 5 p.m.

Student Support Services

Supportive services including TRIO computer lab Napier Avenue Campus
Location: Room C207269-927-8603
Hours: M-F 8 a.m. - 5 p.m., evenings by appointment
Website: www.lakemichigancollege.edu/ss/student_support

Tours

Napier Avenue Campus269-927-8626
Bertrand Crossing Campus269-695-1391
M-TECSM at Lake Michigan College.....269-926-6832
South Haven Campus269-637-7500

Transitional Studies

Academic tutoring, writing lab, math lab, reading lab
Napier Avenue Campus269-927-8100 ext. 6560

Upward Bound

Assists Benton Harbor high school students to enter college
Napier Avenue Campus269-927-8100 ext. 5235
Location: Room C211, Richard J. Pappas Student Services Center
Hours: M-F 8 a.m. - 5 p.m.

Veterans' Services

Napier Avenue Campus269-927-8100 ext. 5008
Location: Room D201a, Richard J. Pappas Student Services Center
Hours: M-F 8 a.m. - 4 p.m.

Western Michigan University – Southwest

2785 E. Napier Avenue, Benton Harbor, MI 49022269-934-1500

A Look at Lake Michigan College





Lake Michigan College is a two-year, comprehensive community college located in the southwest corner of Michigan, serving Berrien County, Covert Township and the South Haven School District in Van Buren County, and adjacent areas of Michigan and Indiana. Lake Michigan College is viewed as a source of education, a cultural center, a regional economic partner and a leader in diversity and innovation.

A diverse student body of more than 7,000 credit and non-credit students creates a rich atmosphere of growth and challenging goals. Those who come to Lake Michigan College do so for a variety of reasons including:

- earning an associate's degree or career certificate
- gaining the first two years of a bachelor's degree
- learning new skills to start a new career
- improving job skills for career advancement
- personal interest

The College offers more than 100 associate degree and certificate programs. Courses are available at four sites operated by the College and through a number of off-campus locations throughout Berrien, Van Buren and Allegan counties. More than 400 faculty and staff are employed by the College.



Lake Michigan College Indians

Lake Michigan College is very proud to have a Potawatomi Indian as its athletic logo.

During the middle of the 17th century, the early white settlers were introduced to the Native Americans (Indians) in the states known today as Michigan, Indiana, Illinois, Ohio and Wisconsin. They met the Potawatomi Indians of the Algonquin speaking nation.

In 1830, the United States Congress passed the Indian Removal Act which stated that all American Indians living in the Great Lakes area must move west of the Mississippi River.

The Potawatomi were involved in the signing of 15 treaties with the United States government which encompassed 33 million acres of land in Michigan, Indiana, Illinois, Ohio and Wisconsin during the treaty period of 1795 to 1833.

The Treaty of Chicago signed by Leopold Pokagon in 1833 with the United States government allowed the membership of the Pokagon Band of Potawatomi to remain in southwestern Michigan.

Currently, there are approximately 1,500 members of the Pokagon Band Potawatomi living in Cass, Van Buren, and Berrien counties.

Places and Ways to Access Lake Michigan College

Napier Avenue Campus



Located in Benton Township, the campus features the Richard J. Pappas Student Services Center where you can complete all aspects of admissions, class registration, financial aid, advising, assessment, and career planning. At the Napier Avenue Campus, you also have access to services such as the Lake Michigan College Bookstore, the Kidzone Preschool and Child Care Center, multimedia library and classrooms, open computer labs, tutoring, student lounge and study areas, lecture halls and gymnasium.

The 263-acre campus features a lake, wooded areas, athletic fields, nature trails, jogging trails, and lighted parking facilities. In the northwest part of the campus, there is a natural area containing more than one mile of nature trails maintained for your use. This area features a deciduous wood lot, marsh, pine plantation, successional field, and tall grass prairie.

The Mendel Center for Arts and Technology



Located on the Napier Avenue Campus, the Mendel Center for Arts and Technology is a regional cultural and conference center. It features the 1,550-seat Mainstage performing arts auditorium, the 246-seat Hanson Theatre, Louis and Frederick Upton Telecommunications Center, Executive Training Center and additional space for meetings, seminars, workshops, tradeshow, and other events. Special facilities within the complex include lecture halls and banquet seating for 1,700 guests. Catering for all events is provided by the College's Conference and Event Services department located on campus.

Bertrand Crossing Campus



The Bertrand Crossing Campus is a 34,600-square-foot facility located on a twenty-acre site in the Bertrand Crossing Industrial Park and is easily accessed by U.S. Highways 12 and 31. Opened in 1998, the campus is a result of vigorous effort by the College, local business and community residents of south Berrien County and northwest Indiana. Many students use the Bertrand Crossing Campus as a bridge to four-year college and university programs.

As a student, you will have access to a broad range of services including academic counseling, skill assessment, job placement, financial aid information, and veteran services. Special features of the state-of-the-art facility include a 10,000-square-foot integrated laboratory for machining, CNC, CAD/CAM and industrial maintenance; a dental assisting lab; a fabrication lab; and supporting facilities in biology and chemistry. Michigan Works! also shares space on the campus, providing employment services to the community.

Places and Ways to Access Lake Michigan College

South Haven Campus



Opened in the fall of 2003, Lake Michigan College at South Haven features 12 general classrooms, wireless computer areas, an open computer lab, an on-campus childcare center, bookstore, two-way interactive classroom, two science labs and art room. Michigan Works! also provides services at the location.

Lake Michigan College students can take advantage of a wide selection of academic programs at the South Haven Campus including:

- Associate of Arts and Associates of Science degrees
- Pre-nursing
- Early Childhood Education
- Business Administration

Students benefit from a full-service setting with personalized attention and a close-knit campus atmosphere. Services include academic advising/counseling, admissions, assessment, English as a Second Language, financial services, registration, student employment, student life activities, and tutoring.

Michigan Technical Education CenterSM (M-TECSM) at Lake Michigan College



Opened in the fall of 2000, M-TECSM at Lake Michigan College is focused on the training needs of area industry and their current and potential employees. Programs offered in the 43,879 square foot facility provide high-wage, high-skill, high-demand training with state-of-the-art equipment in an industry-like facility in the areas of:

- Drafting & Design
- Energy Production Technology
- Apprentice Training
- Machine Tool Technology
- Industrial Maintenance Technology
- Welding

M-TECSM at Lake Michigan College includes nine lab areas, each specially dedicated to a specific function including welding, machining, computer numerical control (CNC), computer aided design (CAD), hydraulics and pneumatics, programmable logic computers (PLC), and electronics. Attached to each lab is a separate classroom where theory in each area is taught in an atmosphere conducive to lecture and class participation.

Off-Campus Classes

During the fall and spring semesters, Lake Michigan College offers credit courses at several off-campus sites throughout the region. These classes are offered day or evening and consist of the same course content and same high-level instruction found in classes held at the College's four sites. These classes apply toward the appropriate degrees offered by the College and also qualify for transfer credit to most four-year colleges and universities.



Online and Hybrid Courses

With Lake Michigan College's online classes, you can attend class from your home, office or anywhere you have access to a computer and Internet service. Individual instructors can give you details about the amount of time required on campus for orientation and testing.

Hybrid classes mix the best of both worlds – online and on campus. You complete a portion of your coursework online, and the rest of the course is delivered in a traditional face-to-face format. Hybrid courses vary in the amount of face-to-face meetings. Some courses meet multiple times a week, some meet once a week and other times as designated. Internet access is required and a working knowledge of computers to be successful in a hybrid format class. Go to www.lakemichigancollege.edu/hybrid for more information.

Information about specific online and hybrid classes can be found in the current class schedule.



Classes are offered in conjunction with the Michigan Community College Virtual Learning Consortium (MCCVLC) and tuition rates for MCCVLC referrals follow those set by the Consortium. See the most recent class schedule for more information on tuition rates as well as computer system requirements.

Internet course text books may be purchased through the Lake Michigan College College Bookstore. Bookstore details are available in the most current class schedule.

Telecourses

Telecourses allow you to take college credit courses in the convenience of your home. You check out DVDs from the Lake Michigan College Bookstore to study at home or view them in the College's William Hessel Library.

Just as in traditional courses, you will need to purchase textbooks, complete homework assignments, and take exams. You meet with your instructors to review coursework or you can contact them by phone or e-mail. Five visits to campus - an orientation and four exams - are required as a part of the courses. See the current class schedule for dates and times of on-campus requirements.

Traditional telecourses are completed during the normal semester schedule.

In addition to the regular Lake Michigan College tuition rates and fees, a telecourse fee will apply. For more information, contact the Telecourse Coordinator at (269) 927-8100 ext. 5059.



Open Entry/Open Exit - OE/OE

Open entry/open exit courses are self-paced classes that allow you to fit class into your schedule. Please check the LMC website for more details.

Accreditation & Assurance of Quality

Accreditations

Lake Michigan College is accredited by The Higher Learning Commission and a member of the North Central Association.

The Higher Learning Commission
of the North Central Association of Colleges and Schools
30 North LaSalle Street, Suite 2400
Chicago, Illinois 60602-2504
Telephone: (800) 621-7440
www.ncahlc.org

Other programs at Lake Michigan College are individually accredited by their governing boards. They include:

- **Nursing Program Associate Degree**

Fully approved by the Michigan State Board of Nursing and is accredited by the National League for Nursing Accrediting Commission (NLNAC). The Michigan State Board of Nursing has approved the Practical Nursing certificate program.

For information about this program from NLNAC you may contact them at 61 Broadway, New York, New York 10006 or by phone at 212-363-5555.

- **Radiologic Technology Associate Degree program**

Accredited by the Joint Review Committee on Education in Radiologic Technology.

- **Dental Assisting Program Associate Degree**

Accredited by the Commission on Dental Accreditation of the American Dental Association and by the Michigan State Board of Dentistry.

Copies of these accreditations are available for review in the library on the Napier Avenue Campus or in the Office of the Executive Dean of Career and Technical Education, located on the Napier Avenue Campus.

Assurance of Quality (AOQ)

Lake Michigan College assures students that any course on an appropriate Lake Michigan College Transfer Guide sheet will transfer to the bachelor's degree institution identified on that guide. To qualify, students must have:

1. Initiated their program of study after April 1988;
2. Completed the program of study as planned and agreed to by the student and the counselor or advisor;
3. Received at least a minimum grade of C in the course(s) taken for transfer credit;
4. Met the admission requirements of the identified bachelor's degree institution;
5. Transferred to the identified bachelor's degree institution within one year after completion of the agreed upon program at Lake Michigan College.

Career and Technical Programs

Lake Michigan College assures that the courses completed with a grade of "C" or better in an Associate in Applied Science, Associate in Applied Business, or Associate in Industrial Technology degree will provide entry-level skills needed for a particular occupation. To qualify, a student must have:

1. Initiated the program of study after April 1988 and complete within three years of initiation with a GPA of 2.0 or better;
2. Followed the official Lake Michigan College program guide sheet, dated 1987 or thereafter, for course selections;
3. Been employed full-time within one year of graduation.

NOTE: Some students may be employed while completing the requirements for an associate degree. The AOQ will apply if the position held at the time of graduation is compatible with the associate degree earned.

Retraining: If a student is subsequently judged by an employer to be lacking in technical job skills normally expected of an entry-level employee within the major, Lake Michigan College will provide further skill training for up to 16 semester credit hours within two academic years without additional charge for tuition or fees.

- In order to be eligible for retraining, the employment must be verified by the Career Center as being directly related to the graduate's program of study.
- The employer must provide written certification that the employee is lacking the entry-level job skills that are identified, in writing, at the time of initial employment, and must specify the area(s) of skill deficiency within 90 days of the graduate's initial employment.
- The employer, the graduate, and a college faculty advisor, with advice of appropriate teaching faculty, will develop an educational plan specifying up to 16 credit hours of retraining. Such courses must be those regularly offered by Lake Michigan College.
- The retraining courses will be limited to 16 hours of registration regardless of outcome.



Becoming a Lake Michigan College Student

Admission Policy

Lake Michigan College offers an "open door" admissions policy for individuals who are interested in and capable of benefiting from the post-secondary experience. Any person can apply for admission to Lake Michigan College who is interested in and capable of benefiting from the post-secondary experience, and who is:

1. A high school graduate or GED recipient, or
2. Eighteen years of age or older, or
3. Demonstrates Ability to Benefit on an approved College assessment instrument.

Individuals who are under the age of 18 and demonstrate the Ability to Benefit will be offered acceptance after that individual's high school class has graduated. Individuals can be admitted as a student at LMC without a high school diploma or GED.

Individuals who are still in high school may enroll in classes at the College during regular high school hours with permission of their high school guidance officer by completing an Early College Registration form. Early College participants are to apply for admission to the College for any semester after their graduation date.

Guest student status will be granted to individuals who attend other colleges and universities upon completion of the Michigan Uniform Undergraduate Guest Application. Guest students may enroll in course work for which all stated pre-requisites have been met.

The College reserves the right to evaluate and document special cases and to refuse admission and/or continued enrollment if the College determines that the applicant/student is a threat or a potential danger to the college community or if such refusal is considered in the best interest of the College.

The College retains the right to deny and/or revoke admission/enrollment of any applicant or student who was convicted of a felony or a crime requiring listing on the sex offender registry. A registered sex offender is defined as any person who is required pursuant to State or Federal Law to be registered on any Criminal Information Network and/or the National Crime Information Center Convicted Sexual Offender registry.

The College will monitor the sex offender registry list to identify persons on the list who have been convicted of a felony or a crime requiring listing on the sex offender registry and are applying for admission to or enrolled in Lake Michigan College. Individuals convicted of a felony or a crime requiring listing on the sex offender registry are required to inform the Executive Dean, Student Services of their status at the time they seek admission to the College.

Failure to comply with notification requirements may result in immediate denial of admission or expulsion from the College. As required by Federal Law, Lake Michigan College will provide a link in one or more areas of its web site and in appropriate College publications to the Michigan State Police Sex Offender Registry.

A student whose admission is revoked after enrollment must be notified of the right to an appeal process and provided due process. The student whose admission is revoked is provisionally enrolled and permitted to attend classes pending the outcome of the appeal process, if the student chooses to appeal.

Admission Requirements - Health Science Program

In addition to the general College admission requirements, each Health Science program has additional specific requirements that must be completed in order to be placed onto the candidacy list from which students are selected for entrance into a program.

For information on the most current entrance requirement to a Health Science program, contact Student Services Academic Advising at (269) 927-8128 to make an advising appointment. For the Dental Assisting program, call (269) 927-8100 ext. 5100. General questions about any of the programs may be addressed to the Health Sciences secretary at (269) 927-8100 ext. 5090.

The Health Science department reserves the right to evaluate, grant or deny acceptance into any Lake Michigan College Health Science program based on an audit of the student records at LMC according to the guidelines published by the department.

Admission Requirements - Dental Assisting

1. High School graduation or equivalent.
2. English:
Lake Michigan College Placement Assessment: English 101 eligible or enrolled currently in English 093-094 and Introduction to Dental Assisting 165.
3. Reading:
Lake Michigan College Placement Assessment: 11.8 grade (40% ile) on Nelson-Denny Reading test **or** a score of 78 on the Compass assessment **or** enrolled concurrently in the appropriate reading transitional studies course and Introduction to Dental Assisting 165.
4. Interview with Dental Assisting Program Director.
5. Additional requirement of Associate's Degree:
Meet the algebra Proficiency requirement.

Admissions Status

New Students

A new or first time in any college student is someone who has never attended any college or university. All new degree-seeking students must apply for admission to LMC. Students who participated in LMC's Early College program during high school are classified as new students during the first semester enrolled as degree-seeking at LMC after high school graduation.

Non degree-seeking students may enroll in classes at LMC for personal interest. All non degree-seeking students are encouraged to apply for admission before first semester of enrollment. However, non degree-seeking students must apply for admission before the next semester of enrollment.

Continuing Students

Any LMC student who has enrolled at any time within three consecutive semesters (excluding summer), may return to study without applying for readmission to the college provided the student's account is in good standing and all other obligations to the college have been met. Upon completion of the first semester enrolled at LMC, a student is classified as a continuing student and remains a continuing student until the student no longer meets the definition of a continuing student.

Returning Students

Any LMC student, who has not enrolled within three or more consecutive full semesters (excluding summer), must contact the Records Office at 269-927-8107 to determine if a new application for admission is required. These students are classified as returning students for the first semester of enrollment.

Transfer Students

Any student who has attended another post-secondary institution and will now be attending LMC for the first time as degree-seeking is classified as a transfer student during the first semester of enrollment at LMC. A transfer student must apply for admission and have official transcripts sent directly to LMC to have previously taken courses evaluated for transfer equivalency credit.

Guest Students

Students who are enrolled as degree-seeking at another institution, may apply for guest status at LMC to enroll in courses intended to transfer back to the degree-seeking institution. Students are requested to complete the Michigan Uniform Undergraduate Guest application and the LMC full registration card. The guest application and registration card must be submitted for every semester in which the student wishes to enroll as a guest. To enroll, the student must provide proof all prerequisites required by the specific courses have been satisfied. A guest student who wishes to be admitted as a degree-seeking LMC student for the first time must apply for admission. A guest student who previously has been admitted to LMC as a degree-seeking student must contact the Records Office at 269-927-8107 to determine if a new application for admission is required.

Early College Students

Students currently attending high school (including home school), who wish to participate in the Early College program (dual enroll or direct credit), must work with their high school counselor or the Director of Early College to submit the appropriate documents and approvals. While in high school, Early College participants are non degree-seeking. Early College students who wish to attend LMC after high school graduation must apply for admission to be accepted as a degree-seeking student.

International Student Deposit Policy

Before an I-20 can be issued to an international student, the student must make a deposit equal to the first year cost of tuition, fees, and books. The deposit must be in the form of cash, credit card, money order, or cashier's check. This deposit is held exclusively for tuition and fees.

If an international student decides to terminate enrollment at Lake Michigan College, the Business Office will refund any remaining balance to the student.

Assessment

Lake Michigan College uses the assessment process to measure your skill level in reading, writing, and mathematics. It has no effect on your admission to the College. Certain levels of performance are necessary in these skill areas for success in college-level courses. College advisors use the results to help place you in the proper courses. There are several exemptions that allow you to opt out of the assessment process as listed in the Assessment & Placement Policy below. The assessment is a free service of the College. A valid photo ID must be shown at time of test.

Ability to Benefit Testing at Lake Michigan College

- LMC uses Compass Pre-Algebra Math, Reading, and Writing to test for Ability to Benefit purposes; scores are evaluated according to the cutoff scores established by federal law.
- Federal law requires that the prospective student must take, and pass, all three tests in one sitting. If he/she fails to meet the required cutoffs for any of the three sections, he/she must retake the entire test. LMC requires a 14-day retest wait for Compass and a 30-day retest wait for ASSET, the paper/pencil version of Compass. Those retesting must provide the Assessment Center proof of having studied prior to being permitted to retest.
- ACT Compass defers to the Americans with Disabilities Act (ADA) for administration of Compass to students with disabilities for ATB purposes; scores are valid as long as proper Compass administration occurs under the conditions set forth by the ADA.

Assessment & Placement Policy

1. For course placement purposes, all students new to Lake Michigan College will be required to complete an assessment of writing, mathematics, and reading skills prior to registration unless an exemption applies based on current procedure.
2. English, mathematics, and reading basic skills prerequisites for College classes are listed in the course description section of the College catalog as E-English, M-Mathematics, or R-Reading.
3. Students whose assessment scores do not meet or exceed levels set for E, M, R prerequisites must successfully complete appropriate Transitional Studies courses prior to registration in courses with these prerequisites.

Assessment and Placement Procedure

For course placement purposes, all students new to Lake Michigan College will be required to complete an assessment of writing, mathematics, and reading skills prior to registration unless an exemption applies based on current procedure.

1. Students who will be exempt from assessment include:
 - a) Students who submit ACT or SAT scores at or above current qualifying levels for E, M, and R prerequisites. Documentation of current qualifying levels will be maintained in the Assessment Center.
 - b) Students with an associate degree or higher, based on documentation.

- c) Students with a minimum grade of "C" in the equivalent of a college-level freshman composition course and a college-level algebra course, based on documentation.

Students with documented transfer credit in college-level composition classes will be exempt from the reading and writing portions of the assessment. Those students with documented transfer credit in intermediate algebra will be exempt from the math portion of assessment

- d) Students enrolling ONLY in courses with no prerequisites as printed in the current LMC College Catalog.
 - e) Students taking non-credit courses and courses for Continuing Education units (CEUs).
2. The initial assessment battery will be completed as a unit during a single administration.
 3. Students may retake each portion (English, reading, mathematics) of the assessment battery once.
 4. Returning students who have not enrolled for five consecutive years must take the assessment.
 5. Upon request, students with disabilities with documentation on file in the Student Resource Center, will be provided special testing accommodations.

Note: Additional assessment is required for Health Science applicants.

English as a Second Language

All incoming students, including those who speak English as a second language (ESL) are assessed relative to reading, writing, and mathematics skills. Lake Michigan College is aware that assessment instruments designed for students whose first language is English do not adequately assess the skills of ESL students. Therefore, ESL students will be assessed for English language proficiency using a test of English Language. ESL students are required to take the ESL assessment and to take appropriate courses based on those scores.

Non-native speakers of English and graduates of high schools outside of the United States must take the ESL Assessment unless they can present proof of a TOEFL score >500 for the paper test, or 7173 for the computer version at the time of their initial registration.

Questions regarding Assessment for ESL students should be directed to the Transitional Studies department at 927-8100 ext. 5183.

Credit for Prior Education, Advanced Testing, and Workplace Experience

College Board Advanced Placement Program

Lake Michigan College recognizes the College Board Advanced Placement Program (APP). College course credit may be granted if you have participated in the APP through your high school. For advanced placement consideration, you must pass the Advanced Placement examinations with a score of three or higher and submit a College Action Report to the Records Office.

An "N" grade will be assigned and is not included in GPA calculation.

College-Level Examination Program (CLEP)

You can receive up to 30 semester credit hours toward an associate's degree for successful completion of selected College Level Examination Program (CLEP) Subject Examinations. CLEP examinations on which you have earned the American Council on Education (ACE) recommended passing score are eligible for review. You will be given credit toward graduation for the Lake Michigan College courses listed in the current college catalog that are equivalent to the CLEP examinations you have successfully completed.

An "N" grade will be assigned and is not included in GPA calculation.

Other areas to note:

- Foreign language credit will be awarded solely on the basis of the results of the CLEP examinations and these rules, regardless of your native language.
- General examinations are not acceptable for transfer credit.
- If you have earned credit for a higher level class at Lake Michigan College and successfully complete a CLEP examination for a lower level course, that credit will NOT be applicable toward transfer credit or graduation credit.

For further information regarding CLEP credit, contact a Student Services Academic Advisor.

Educational Experiences in the Armed Services

If you are a veteran of the United States armed forces, you can be awarded college credit for the service schools you attended and for your work experience while in the U.S. military. The College awards credit based on recommendations provided by the American Council on Education. Copies of your training certificates and a certified copy of your DD-214 must be given to the Records Office for evaluation.

Prior Experiential Learning Credit

If you are enrolled in one of several Career & Technical Education programs at the College, you may be able to receive credit for experiential learning. You will be asked to demonstrate your experience and skill level through written, oral, performance, or combination examinations that may include a portfolio.

1. You must be admitted to Lake Michigan College to apply for credit for prior experiential learning.
2. You must complete the "Prior Experiential Learning Credit Request" form.

3. You must schedule the appropriate amount of time with the examiner and complete the assessment as stipulated for the course(s) for which credit is sought.
A fee is charged for each course. The fee is paid to the Business Office when the examination has been passed successfully and before credit is posted to the transcript.
4. Credit is indicated on the transcript as prior experiential learning credit, the equivalent course and number, and the number of semester hours granted. An "N" grade is assigned to PEL credits.
5. Grades and honor points are not given; therefore, credit for prior experiential learning does not affect the grade point average. An "N" grade will be assigned to Prior Experiential learning credits.
6. Prior Experiential Learning credit is accepted at Lake Michigan College but may not be transferable to other institutions. If you intend to transfer to another college or university, you should discuss the ramifications of such credit with a Lake Michigan College academic or faculty advisor.

Transcripts

An official transcript is one sent directly to the Lake Michigan College Records Office directly from the sending institution. An unofficial transcript is one that has been in a student's possession. The Registrar's Office will only use an official transcript to evaluate for transfer credit.

High School Articulation Credit

Lake Michigan College has articulation agreements with many schools and career/technical centers in Berrien, Van Buren, Ottawa, and Allegan counties in Michigan and in St. Joseph County in Indiana. Classes included in the articulation agreements are courses that are taught in high schools or career/technical centers by high school teachers and have a curriculum similar to an existing class at Lake Michigan College.

If you have taken one of these classes during your high school career, you may be able to earn articulated credit at Lake Michigan College. However, if you plan to transfer to a four-year college or university, you should discuss the transferability of articulated credit with a Lake Michigan College academic or faculty advisor since this type of credit may not be transferable to other institutions. For further information, contact your high school counselor, the Lake Michigan College Admissions Office, your high school career tech instructor, or the Dean of Career & Technical Education at Lake Michigan College.

Transfer Students

If you are coming to Lake Michigan College from another college or university, you may receive a maximum of 120 credits. College coursework completed with a grade of "C" (2.0) or higher at accredited, post-secondary institutions, which must be accredited by one of the Regional Accrediting bodies, to be considered for transfer. If you want prior coursework reviewed for possible transfer credit, apply for admission to Lake Michigan College and have an official transcript of your previous academic transcripts sent to the Records Office. Courses completed with a grade of 2.0 or better on a 4.0 scale will be accepted.

USAFI

Veterans who have successfully completed courses through the United States Armed Forces Institute (USAFI) can be awarded college credit. To be eligible, you need to submit your official transcripts and test scores for evaluation to the Records Office.

Advising

Prior to registering as a new student, if you are taking six or more credit hours or plan on obtaining an associate's degree or certificate, you are required to see a Student Service Academic Advisor or faculty advisor for assistance in planning your schedule for your first semester. As a current Lake Michigan College student, you are encouraged to meet with a Student Service Academic Advisor or faculty advisor prior to each semester and anytime you have questions.

Academic Advising

As a prospective or current Lake Michigan College student, you are encouraged to meet with an academic advisor any time you have questions. Prior to registering as a new student, you are required to see an academic advisor or faculty advisor for assistance in planning your schedule for your first semester. You are also encouraged to meet with the faculty advisor for your area of study to develop an academic plan for your major. Faculty are available to assist you with academic questions or problems that may be interfering with progress toward your goals. Faculty office hours are posted on the instructor's door and you are encouraged to make appointments during those hours. Appointments to meet with an academic advisor should be made through Student Services. Open advising is available on a first-come, first-served basis.

Some specific areas where assistance is provided are:

- Assistance with academic opportunities and choices
- Academic program planning
- Evaluation of personality traits and academic strengths
- Transfer to senior institutions
- Special populations, i.e. disability services, single parent/displaced homemakers, grants, and services.

If you are undecided about your area of study, you should contact Student Services at (269) 927-8128 for the Napier Avenue Campus and M-TECSM at Lake Michigan College, (269) 695-1391 for the Bertrand Crossing Campus, or (269) 637-7500 for the South Haven Campus to make an advising appointment.

Early College Students

Early College provides high school students with an opportunity to get a jump start on their college education by taking college classes while still in high school. Classes are offered at all LMC campuses, as well as at many high schools or other locations. Students interested in Early College classes must pass the appropriate portions of the LMC Assessment or have acceptable ACT scores. After graduation, the student can apply for admission to LMC. For more information, please contact your high school Guidance Counselor or the Early College Director at Lake Michigan College at (269) 927-8100 ext. 5186.

Open Entry/Open Exit (OE/OE) and Open Entry/Defined Exit (OE/DE)

Registration & Completion

Open Entry/Open Exit (OE/OE) and Open Entry/Defined Exit (OE/DE) courses are self-paced classes designed to allow students more flexibility in completing some of their coursework. Courses offered in these formats are designated in the Course Schedule with either an OE/OE (Open Entry/Open Exit) or an OE/DE (Open Entry/Defined Exit).

An Open Entry/Open Exit course allows the student to complete the course by the end of the following semester, if necessary. Students may register at any time up to the last week of the semester; however they must begin the course immediately upon enrollment. Students must engage in at least one instructional activity within the first week of enrolling in the course to maintain academic progress. After that, students should work to complete the coursework as quickly as they are able. Open Entry/Open Exit courses must be completed by the end of the next full semester. (Financial Aid students, please see special note below for requirements.)

Open Entry/Defined Exit courses must be completed within the semester the student registers. Students may register at any time up to the last week of the semester but must begin coursework immediately and complete at least one instructional activity within the first week of registering for the class. Open Entry/Defined Exit courses do not extend into the following semester.

Grading

If an OE/OE (Open Entry/Open Exit) course is not completed by the end of the semester in which the student enrolled, students will receive an IP (In-Progress) at the end of the term. Sufficient academic progress toward completion, as defined in the course syllabus, will determine if a student is eligible for an IP or will receive a grade. Students, therefore, must satisfy requirements for continued progress before an IP will be awarded. If an IP is awarded, students have until the end of the following semester to complete their coursework.

An OE/DE (Open Entry/Defined Exit) course must be completed by the end of the semester, regardless of when the student enrolled for the course. The grade earned will be recorded on the student's transcript.

Withdrawal from an OE/OE or OE/DE Course

Students may withdraw from an OE/OE or OE/DE course with a "W" up through 80% of the allotted completion time of the course. Students should consult the College's web site for specific dates. Late withdrawals are solely at the discretion of the instructor and must be completed on the appropriate form with the instructor's signature.

Dropping a OE/OE or OE/DE Course

Students, who register for an OE/OE or OE/DE course by the last day to add courses for the semester, may drop the course according to the published semester drop date. OE/OE or OE/DE courses registered for after the full semester's last day to add may be dropped within three days of the posted registration. For courses OE/OE or OE/DE courses dropped during the allowable timeframe, the regular tuition refund policy applies.

Special Note for Financial Aid Students Enrolled in Open Entry Courses

Students using financial aid to pay for an Open Entry course must register during the regular semester registration period at the beginning of the semester in order for these classes to be included in their financial aid package. Students MUST begin work on their Open Entry course (whether it is OE/OE or OE/DE) before the financial aid for the class will be released to the student's account. Students must continue regularly participating in the class to maintain academic standards of progress for the course. If students do not continue

working on the course, (more than two weeks with no class activity) through at least the 60% point of the semester in which they enrolled, the financial aid award will be recalculated and possibly reduced, which could result in the student owing the College or the Department of Education for previously awarded financial aid. In addition, the student's Flex Pay – Pending Aid account may be activated. Students with a financial aid hold on their account may not be permitted to enroll in future terms.

Tuition, Fees & Residency

Tuition

Because tuition and fees are subject to change, specific amounts are listed on the Lake Michigan College website and in the current class schedule.

Tuition is based on four classifications.

In-District Student
In-State Student
Out-of-State Student
International Student

Tuition and Fee Payment Policy

Tuition and fees must be paid in full at time of registration, or payment arrangements through the Flex Pay Plan must be made at that time.

By registering for classes at Lake Michigan College, the student agrees to financial responsibility for all charges on their College account. The student also promises to pay Lake Michigan College the full amount of the obligation by the due date. Further, the student agrees to pay any and all costs, including collection, attorney, and litigation costs incurred by Lake Michigan College in its effort to collect, should the student default on his/her account.

Delinquency/Collection Fee

A delinquency/collection fee will be added to all account balances not paid by the due date on their final notice. See current Class Schedule for fee amount.

Prior Experiential Learning Fee

The prior experiential learning fee is for students who, through work experience and demonstration of their knowledge, place out of classes. Please refer to the current class schedule for related fees. See current Class Schedule for fee amount.

Late Registration Fee

A late registration fee will be charged if you register for classes on or after the first day of classes each semester. If you register and pay for classes prior to the first day of classes and then decide to add classes to your schedule after that date, the Late Registration Fee will not apply to the classes you add. See current Class Schedule for fee amount.

Internet Course Tuition

Tuition for Internet courses offered through Lake Michigan College, as well as through members of the Michigan Community College Virtual Learning Consortium (MCCVLC), differs from the standard tuition rates. See the most recent class schedule for current rates.

For the purpose of Internet courses only, students who are enrolling through MCCVLC are eligible for in-district tuition rates if they are a resident of any Michigan community college district. Michigan residents who do not reside within a community college district will be charged the out-of-district rate. All other students will pay the out-of-state tuition rate.

Flex Pay Program

The Flex Pay program is a low-cost way to spread tuition and fee payments out over time. Payments are automatically deducted from a checking account, MasterCard, Discover Card, or American Express. It is not a loan program so there are no interest or finance charges, and there is no credit check. All students are required to enroll in the Flex Pay program unless tuition and fees are paid in full at the time of registration by cash, check or credit card. See the current class schedule or College website for full details.

Refunds

1. A 100% refund of tuition and all fees will be made if a class is cancelled by the College.
2. A 100% refund of tuition and course fees will be made if you drop a class online or in the Richard J. Pappas Student Services Center on the Napier Avenue Campus or in Student Services on the Bertrand Crossing Campus or South Haven Campus before the end of late registration. Drop dates are published in class schedules.
3. For classes withdrawn after last day to drop, no refund of tuition or fees will be approved. Students with special situations may file a formal tuition refund appeal, available through the Records Office, to be considered for approval of refund or credit.

Residency

A student's residency for tuition purposes is determined from information provided on the Application for Admission. Status, as defined below, may be reconsidered upon presentation of written proof that the student's place of residency has changed. The College may require verification of a student's place of residency.

Change of Status

A student who currently is classified as a In-State, Out-of-State or International Student is eligible for review of residency status for subsequent semesters upon proof that the legal home of residence is within the district or state.

Documentation

The College reserves the right to require documentation acceptable to the College in all cases of residency determination and verification including, but not limited to, the following criteria: a student's current residency address and one or more of the following documents confirming that address as the legal home of residence. Acceptable documentation includes state driver's license, state ID card, military ID card, state voter registration card, tribal card with address, property tax statement, utility bill, or home or renter's insurance policy.

In-District Student

A citizen or eligible non-citizen of the United States who is (1) a student whose legal residence is within the Lake Michigan College district, or (2) a student who owns, or a documented dependent student whose parents or legal guardians own, real taxable property in the Lake Michigan College district of Berrien County, (including the Niles zip code 49120), the South Haven Public School District or Covert Township in Van Buren County, or (3) a student who is a veteran, or a dependent of a member of the U.S. Armed Forces, and who qualifies for Veteran's Education Benefits, is classified as an In-District student. In-District status is determined at the time of registration.

In-State Student

A citizen or eligible non-citizen of the United States who is a student whose legal residence is outside the Lake Michigan College district, but within Michigan, is classified as an In-State student. In-State status is determined at the time of registration.

Out-of-State Student

A citizen of the United States who is (1) a student with legal residence in a US state other than Michigan, or (2) a student who does not qualify as an In-District student or as an In-State student as defined above, is classified as an Out-of-State student. Out-of-State status is determined at the time of registration.

International Student

A student who is (1) not a United States citizen or (2) a student who has been admitted to the United States on a temporary, non-resident status, is classified as an International student. International students should be prepared to document status or property ownership at the time of registration.

An International student may qualify for classification according to the definitions of residency stated above if (1) the student holds a valid Alien Registration Receipt Card (Permanent Resident Card), political asylum status or (2) a student owns, or a documented dependent student whose parents or legal guardians own, property within the United States.

Early College Students

A student participating in Early College courses is defined as a resident as described above. However, during enrollment in an Early College course held at a high school, tuition for that course is based upon the residency of the location of the high school instead of the student's residency.

Senior Citizens

Senior citizens sixty (60) years of age and over who meet In-District criteria will qualify for tuition-free enrollment in any College credited course subject to the following provisions: (1) Registration fees and special fees (if any) for courses selected must be paid by the individual enrolled and (2) All regular registration procedures will be followed.

Discretion to Adjust

Discretion in adjusting individual cases within the spirit and intent of these regulations is vested with the Board of Trustees or their designee.

Financing Your Lake Michigan College Education

To help make your education at Lake Michigan College cost effective, the College works to keep tuition and fees affordable and offers a large financial aid program. As you plan for your education at Lake Michigan College, you should investigate the several forms of financial aid available including:

- Grants - see page 22
- Student Employment Program - see page 22
- Student Loans - see page 22
- Veterans Affairs Educational Benefits - see page 23

How Financial Aid Works

If you haven't considered financial aid because you don't think you will qualify, you should take another look. Financial aid eligibility is based on need, which is the cost of attending college minus what you and your family are expected to contribute. Nearly one-third of Lake Michigan College students receive some form of financial aid.

Financial aid is designed to supplement, not replace, a family's resources. All colleges expect students and families to contribute as much as possible toward college costs.

Determining need is a very individualized process. Many factors are considered including annual income, assets, expenses, and the number of family members, as well as how many of them are attending college. These factors are combined into a formula enacted by the U.S. Congress to determine how much you and your family are expected to pay toward your college expenses.

After receiving this information, the Lake Michigan College Financial Aid Office puts together a financial aid package of funds available through grants, scholarships, and/or student employment.

How To Apply for Financial Aid

It is important that you apply for financial aid early. You may only apply for financial aid once each academic year. For best consideration, your application should be on file in the Financial Aid Office by:

Fall Semesters	March 1
Spring Semester	November 1
Summer Semester	February 1

STEP 1

Complete a Lake Michigan College Application for Admission

To receive financial assistance at Lake Michigan College, you must be admitted to the College. This will include having your final high school transcripts sent to the Records Office.

STEP 2

Complete the Free Application for Federal Student Aid (FAFSA)

Students are encouraged to complete the application on line at www.fafsa.ed.gov. Completing the FAFSA online speeds up the application time and reduces data entry errors. Students can also apply using the paper application and mailing it to the processing center in the envelope provided. Completion of the FAFSA requires prior year income information. Instructions are provided that will tell you if you need to include your parent's income information as well. **YOU SHOULD ALLOW AT LEAST FOUR WEEKS FOR PROCESSING.** A formula established by Congress is used to determine your financial aid eligibility. The FAFSA must be completed each year to be considered for financial aid.

STEP 3

Complete a Lake Michigan College Scholarship Application (Optional)

Lake Michigan College has a wide variety of scholarships available. Complete the Lake Michigan College Scholarship Application online at www.lakemichigancollege.edu/finaid/application.html, or complete the paper application and return it to the Financial Aid Office.

STEP 4

You will receive an Award Letter

After you have completed Steps 1 through 3, the Financial Aid Office will prepare a personalized financial aid package that may consist of grants, scholarships, and/or student employment. A Financial Aid Award Letter including specific amounts and types of aid will be mailed to you.

STEP 5

Verify documents (if requested)

The Financial Aid Office may request proof of information, including copies of federal income tax returns or other household information to confirm your eligibility. Awards cannot be credited to your account until we receive all of the documents requested. All information will be considered confidential, and copies will be maintained in the student file for auditing purposes only.

STEP 6

Financial Aid funds are credited to your LMC account

Your financial aid will be credited directly to your school account. This can only happen after you have been officially accepted to LMC, all required documentation has been received, your file has been verified, and you have successfully passed all the U.S. Department of Education matches and edits. If the award does not cover the balance in full, you are responsible for paying the difference by the payment deadline. If you have applied but the financial aid award has not been credited to your account, you must make payment in full by the end of the semester or you will not be allowed to register for the next semester.

Grants/Waivers

Grants are available from federal and state sources. Most grants are need-based and will require students to complete the Free Application for Federal Student Aid (FAFSA) to determine whether they are eligible. Students must meet financial need requirements as well as some general eligibility criteria (unless it is noted otherwise under the specific grant program).

The student must be:

- accepted to an eligible program of study
- a U.S. citizen or eligible non-citizen
- enrolled at least half-time
- maintaining standards of satisfactory academic progress (see page 24)
- not in default on a federal loan or owe money to the Department of Education
- pass all U.S. Department of Education matches and edits

Available Grants

The level of funding and amount of grants can vary from year to year. In most cases, the amount of the grant is split between fall and winter semesters. Students must reapply for grants and meet the eligibility criteria each year.

Academic Competitiveness Grants (ACG) are renewable awards for those who graduated from high school in 2005 or after and who meet other criteria including: full-time students who receive the Federal Pell Grant and completed a rigorous high school academic program as defined by federal law. For additional details on awarding and renewability, contact the Financial Aid Office.

Federal Pell Grant is a program available to undergraduate students who meet the eligibility requirements based on the Free Application for Federal Student Aid (FAFSA). If the student qualifies for a Pell grant, award levels can change from semester to semester based on the student's enrollment. Eligible students may receive a Federal Pell Grant when enrolled for at least one credit hour per semester.

Federal Supplemental Educational Opportunity Grant (SEOG) is a federal grant offered to undergraduate students who show exceptional financial need as determined by the FAFSA. Due to limited funds, SEOG is awarded on first-come, first-serve basis.

Indian Tuition Waiver covers tuition costs for Native Americans with one quarter or more quantum blood certified by their tribe. Students will still be responsible for fees. For more information, contact the local tribal headquarters or the Inter-Tribal Council of Michigan, Inc., at (906) 632-6896.

Michigan Adult Part-Time Grant provides funds for independent Michigan residents attending a Michigan post-secondary school for students who are enrolled less than full-time and demonstrate financial need. Due to limited funds, awards are made on a first-come, first-serve basis.

Michigan Educational Opportunity Grant provides assistance to Michigan residents attending a Michigan post-secondary school who are at least half-time and demonstrate financial need. Due to limited funds, awards are made on a first-come, first-serve basis.

Michigan Tuition Incentive Program (TIP) pays tuition and a portion of fees (up to \$250 per semester) for up to 24 credit hours each academic year for those who qualify. Students who qualify for TIP received Medicaid for 24 consecutive months within a 36 month period as identified by the Department of Human Services (formerly known as Family Independence Agency). Application must be made prior to high school graduation or receiving a GED certificate. For more information, contact the Office of Scholarships and Grants at (888) 447-2687 or via e-mail at osg@michigan.gov.

Children of Veterans Tuition Grant provides assistance to students aged 16 to 26 who had a parent who was killed in action, missing in action or suffered total, permanent disability as a result of the parent's service in the U.S. Armed Force. For more information, contact the Office of Scholarships and Grants at (888) 447-2687 or via e-mail at osg@michigan.gov.

Veterans Administration Educational Benefits are available to eligible veterans of the U.S. Armed Forces. Contact the Lake Michigan College VA Coordinator at (269) 927-8100, ext. 5008 for further information regarding this program.

Student Employment Program

If you are interested in part-time, on-campus employment opportunities, they are available through the Work Study Program. The Work Study Program provides a great opportunity for students to gain valuable experience, develop new resources, and earn extra money while pursuing their education. The program is funded through federal, state and Lake Michigan College funds. Students can be considered for Work Study employment once they complete a FAFSA application. Eligibility is based on a student's financial need, academic standing, and enrollment status. The amount of money that you can earn is based on the availability of funds and/or your financial need. If eligible for the Work Study Program, you may be able to work up to a maximum of twenty hours per week at your supervisor's discretion. If interested, contact the Financial Aid Office at (269) 927-8112.

Direct Stafford Loan

Loans are financial aid that must be repaid by the student, with interest. Loans are a legal obligation, and are a serious responsibility. There are significant consequences when students default on loans. So students should think carefully about how much they require to pay for their educational expenses and only borrow what they need.

The Subsidized Stafford Loan is a need-based loan program. The interest is paid by the Federal government while the student attends school at least half-time, during the 6 month grace period, and during deferment periods for the Stafford Subsidized Loan.

The Unsubsidized Stafford Loan is a non-need based loan program. Even students who do not qualify for other types of aid may qualify for an unsubsidized loan (as long as they meet the requirements listed under the "E" section). The Federal government does not pay the interest for the student. The student is responsible for paying all interest that accrues on their unsubsidized loans while they are attending school, during the six month grace period, and once repayment has begun on the loan.

Eligibility for Direct Loans

- File the **Free Application for Federal Financial Aid (FAFSA)** and be enrolled at least half-time (6 or more credits per semester for Fall/Spring)
- complete all documentation requirements
- be accepted to LMC and enrolled in an eligible program
- not be in default on a prior federal loan
- not have an outstanding overpayment on a federal grant
- be making satisfactory academic progress
- not have any other reasons for being ineligible for federal aid programs

Veterans Affairs Educational Benefits

Application for Benefits

If you are a full- or part-time, potential recipient of Department of Veterans Affairs educational benefits, you must apply for admission to Lake Michigan College and indicate your chosen associate's degree program of study. High school transcripts and/or GED scores, all post secondary school transcripts must be forwarded to the Records Office for evaluation. Discharge documents must be forwarded to the Veteran's Coordinator.

Advanced Payment Check Requests

Upon your request, the Veterans Affairs Coordinator will process a request for an advance payment check for the first two months' benefits from the Department of Veterans Affairs. If you want an advance payment check, contact the Veterans Affairs Coordinator at least 60 days prior to the start of a term.

Reporting of Changes

The Department of Veterans Affairs requires that, if you are receiving educational benefits, you immediately report any change in credit hour load, dependency status, address, or program of study to the Veterans Affairs Advisor.

Satisfactory Progress Standing for VA Benefits

The Michigan State Approving Agency and the Department of Veterans Affairs require Lake Michigan College to establish academic progress standards for veterans and other eligible persons in order to receive Veterans Affairs educational benefits. Satisfactory academic progress is of primary concern. As an educational benefit recipient, you are considered to be making satisfactory progress if your cumulative grade point average (GPA) is 2.00 or above.

Academic Probation for VA Benefits

If, as a Veterans Affairs educational benefit recipient, your Lake Michigan College GPA drops below 2.00, you will be placed on academic probation. During the probationary period, you may continue to receive educational benefits; however, probationary status may not exceed two terms. At the end of the probationary period, if your cumulative GPA still does not meet the minimum graduation requirement of 2.00 or better, a report of unsatisfactory progress will be sent to the Department of Veterans Affairs and you will stop receiving benefits. Certification for further educational benefits will not be submitted until your cumulative GPA reaches 2.00.

If you want your certification for educational benefits reinstated, you are required to submit a written statement to the Veterans Affairs Advisor, which will be forwarded to the Department of Veterans Affairs. This statement must include an explanation of how the cause of your unsatisfactory progress has been corrected.

Standards of Satisfactory Academic Progress for Financial Assistance Eligibility

The U.S. Department of Education requires colleges to establish standards of Satisfactory Academic Progress (SAP) for students to meet for the continuation of all types of financial assistance, including federal, state, and institutional funds. These standards include consideration of GPA, credit completion rate, and total credits attempted. The policy is explained in detail below.

General Information

SAP standards are intended to measure progress toward the completion of a degree program or certificate, as well as academic performance, throughout the student's course of study. They apply to all periods of enrollment at Lake Michigan College, even those during which financial assistance was not received.

All students are considered to be meeting SAP standards during their first period of enrollment at Lake Michigan College. Thereafter, a student's continued financial assistance eligibility for subsequent semesters is determined after enrollment in fall and winter semesters. If the student does not enroll for either fall or winter semesters, the student's SAP classification will be determined based on their most recent enrollment period.

Because these SAP standards are used to determine the student's continued eligibility to receive financial assistance, students who do not meet the standards may still enroll at Lake Michigan College. They will, however, be responsible for the entire cost of tuition and fees without the benefit of financial assistance.

Satisfactory Academic Progress Standards

Minimum Grade Point Average That Must Be Maintained

The minimum semester or cumulative* grade point average (GPA) which a student must maintain is determined by the cumulative number of credit hours the student has attempted at Lake Michigan College. The required minimums are:

Number of Hours Attempted	Minimum Required GPA
1 - 30	1.75
31 and above	2.00

*The greater of either semester GPA or cumulative GPA will be used to determine compliance with the SAP policy.

Minimum Number of Credit Hours That Must Be Completed

To continue in good standing, a student must successfully complete at least 67 percent of the number of credit hours enrolled each semester or at least 67 percent of total cumulative credit hours attempted, whichever is greater. So, students who enroll for 12 credits in a particular semester must successfully complete at least 8 credits; or, on the other hand, students who have attempted 35 total cumulative credits at Lake Michigan College must have successfully completed at least 24 credits. The higher completion rate of the two (semester or cumulative) will be used to determine if the student continues in good standing or is placed on probation. To successfully complete a class, the student's grade must be one of the following: A, B, C, D, or S. Non-passing grades are: E, I, U, and W. A student may not receive financial aid for classes registered as "Audit."

Maximum Number of Semester Hours Allowed

The U.S. Department of Education requires a student to progress toward a degree or certificate at a rate that would allow completion of the program of study within a period not greater than 1.5 times the normal program length. Hence, a student would be allowed three years to complete a two-year degree. Many Lake Michigan College students do not maintain a consistent enrollment status and often change from full-time to half-time or to three-quarter time, even within a given school year. Therefore, the required maximum timeframe within which students must complete the program of study is measured, at Lake Michigan College, by the total number of credits attempted, not the actual time measured in semesters. For example, if your degree requires 61 credits, the maximum credits you can attempt is 92.

Financial Aid Probation

Students will be placed on financial aid probation for the following semester in which they enroll when:

1. The student's semester GPA or cumulative GPA (whichever is greater) is less than the minimum required GPA as outlined above; or,
2. The student's semester completion rate or cumulative completion rate (whichever is higher) is less than 67 percent.

Students who are being placed on financial aid probation will be notified in writing and should see the At-Risk Advisor at that time.

While on probation, students may receive financial aid as awarded. Students will continue to be on probation until they have successfully raised their cumulative GPA and their cumulative completion rate above the required minimum level or they lose financial aid eligibility by continuing to make unsatisfactory progress as described below.

Removal from Financial Aid Probation

A student will be removed from probationary status once the following are attained:

1. The student's cumulative GPA reaches or exceeds the minimum required GPA, as outlined above, and
2. The student successfully completes credit hours that total those that were previously dropped and/or failed; or successfully completes at least 67 percent of total cumulative credits attempted at Lake Michigan College.

Unsatisfactory Progress

A student is considered to have not maintained the standards of Satisfactory Academic Progress (SAP) and will lose eligibility to receive financial assistance if:

1. While on probation the student's semester GPA is below the minimum required GPA as outlined above, or
2. While on probation the student fails to complete the required 67 percent of the credits enrolled during a semester, or
3. The student has attempted the maximum number of credit hours allowed at Lake Michigan College.

Regaining Financial Aid Eligibility

Students who lose financial aid eligibility may regain that eligibility by doing any one of the following items:

1. Take the necessary credits at their own expense to:
 - a) Reach the minimum cumulative GPA required as outlined above, and,
 - b) Successfully complete all credit hours previously dropped and/ or failed, or, successfully complete at least 67 percent of total cumulative credits attempted at Lake Michigan College.
2. File an appeal to the Financial Aid Appeals Committee indicating the extraordinary circumstances that existed and caused the student's failure to meet SAP policy. Should the appeal be approved, the student would regain aid eligibility according to the committee's stipulations. (See the following for more information regarding an appeal).

Filing an Appeal

A student who has not maintained the standards of Satisfactory Academic Progress for financial assistance eligibility may complete a Financial Aid Student Appeal Form with the Financial Aid Office. The appeal should indicate the mitigating circumstances that caused the unsatisfactory progress to occur and how the student has overcome the circumstances and now expects to continue making satisfactory progress toward a degree or certificate. The student must provide supporting documentation to substantiate the circumstances presented. Circumstances that the Appeals Committee will consider include the death of a relative, personal illness or injury, or other specific mitigating circumstances beyond the reasonable control of the student.

Courses Below 100 Level

Students enrolled in courses below the 100 level must successfully complete the required minimum 67 percent of all courses attempted. However, since the grades received in these classes are not included as a part of the grade point average, the GPA requirement is waived.

"I" and "S" Grades, "Audit" and Repeated Classes

Since an "I" grade is considered as an "E" until a letter grade is received, a grade of "I" can affect a student's financial aid eligibility (see page 198 for rules governing "I" grades). "S" grades received in 090-level classes count as successful completion of the class. A student may not register to audit a class while receiving financial assistance. Students receiving financial aid may only take a course for a maximum of three times and receive aid for it. When a course is repeated, the hours generated by the repeated course will count toward the maximum allowable credits; however, only the better grade will count toward the GPA required for aid eligibility purposes.



Program, Transfer, and Degree Information

One- and Two-Year Career Education Programs

If you want a job where a bachelor's degree is not required but some level of college education is necessary, the Career Education programs at Lake Michigan College are designed to meet your needs. By working with your academic advisor or faculty member you will be able to develop a plan that will help you reach your goals. It may consist of one or more courses that provide you with specific skills, a series of courses that lead to a Certificate of Achievement, or a plan where you will earn an associate's degree.

Career Education programs are not typically designed to transfer to four-year colleges and universities, though transfer agreements have been established for some. You also may be able to transfer to specific schools, depending on your chosen program. A Lake Michigan College advisor or faculty member can answer your questions related to transfer opportunities.

Flexible Training Options

Many Career Education program courses are offered on an open entry/open exit basis where you can tailor your class schedule to meet your needs. See page 18 for more information about open entry/open exit.

Credit for Prior Experience

As part of the seamless transition from secondary school or the work place to Lake Michigan College, you may be able to receive credit for previous classes and experience and apply it toward a certificate or degree. For information on credit for high school classes see the High School Articulation section and for information on credit for work experience, see the Prior Experiential Learning Credit section, both on page 17.

Associate's Degree Programs - Career and Technical Education

The following are the associate's degree programs offered through Career and Technical Education. For detailed program information, see the Programs section beginning on page 33. These degrees may be transferred to Siena Heights University at Lake Michigan College for completion of a bachelor's degree. Call Siena Heights at (269) 927-6711 for more information. They may also transfer to other four-year schools. Speak with your academic advisor for more information.

Accounting
 Administrative Office Systems
 Agriculture
 Computer Information Systems
 Information Technology
 Networking
 Programming
 Web
 Corrections, Probation, Parole
 Dental Assisting
 Drafting & Design Technology
 Early Childhood Education
 Energy Production Technology

General Technology
 Graphic Design
 Hospitality Management
 Industrial Maintenance Technology
 Law Enforcement
 Legal Office Systems
 Machine Tool Technology
 Management & Marketing
 Medical Office Systems
 MRI
 Nursing (RN)
 Paramedic
 Radiologic Technology
 Skilled Trades Technology
 Sonography

Career & Technical Education Certificate of Achievement Programs

Certificate programs focus on specialty courses to prepare you for job entry or job skills upgrading for your current job.

Cisco
Dental Assisting
Drafting & Design Technology
Early Childhood Education
Graphic Design
Hospitality Management
Legal Office Systems
Machine Tool Technology
Magnetic Resonance Imaging
Medical Office Systems
Nursing, Practical
Office Automation Specialist
Paramedic
Skilled Trades Technology

Four-Year College Transfer Information

Many students come to Lake Michigan College to earn the first two years of their bachelor's degree and plan to transfer to a four-year college or university.

By working with your Lake Michigan College academic advisor, you can plan an Associate in Arts, Associate in Science, or an Associate in Business Administration degree that will meet the general requirements for most four-year colleges and universities. Because courses in communications, humanities, mathematics, natural sciences, and social sciences are similar in colleges across the country, you can easily transfer these courses to in-state and out-of-state schools.

MACRAO Transfer Agreement

Lake Michigan College is a participating member of the MACRAO Transfer Agreement. Many Michigan four-year colleges and universities have agreed to a statewide transfer agreement proposed by the Michigan Association for Collegiate Registrar and Admissions Officers (MACRAO).

The MACRAO Transfer Agreement was created to simplify your transfer from one institution to another. The agreement stipulates that 30-semester credit hours of 100-level-and-above, compatible, general course work will be granted smooth transferability to participating universities; these credits will be applied toward your general education requirements.

The MACRAO agreement only addresses general studies requirements. Any major and minor requirements and proficiency required of you are determined by each individual four-year school.

MACRAO Agreement Satisfied Notation

When you graduate from Lake Michigan College with an Associate in Arts, Associate in Science, or Associate in Business Administration degree, or MACRAO certificate, your transcript will have the notation "MACRAO Agreement Satisfied."

Transfer Plus (Specialized programs – degree/ certificate issued through participating institution not through LMC.)

with a MAJOR in:
Cardio Respiratory Care (KVCC)*
Dental Hygiene (KVCC)*
Fire Science - Associate (KVCC)*
Fire Science - Certificate (KVCC)*
Law Enforcement (KVCC)*
Medical Assistant Tech (KVCC)*
Water Purification (BNCC)*

* Not Financial Aid eligible

Level I Certificate (Fewer than 30 credit hours.)

Certificate majors:
Customer Service*
CIS - Information Technology*
CIS – PC and Network Technician
CIS – Programming*
CIS – Web*
Drafting and Design*
Fluid Power*
Industrial Computing*
Machine Tool*
Management*
Manufacturing Production*
Marketing*
Numerical Control Specialty*
Technology*

If you have not received one of these associate's degrees but have completed the MACRAO agreement, you can have this notation placed on your transcript but you must contact the Records Office.

A. English 101 and English 102 or 103 - 6 credits

B. Natural Science - 8 credits

- Biology 101, 108, 111, 112, 204, 205, 206, 210, 212
- Chemistry 101, 102, 104, 105, 106, 111, 112, 203, 204
- Physical Science 101, 104
- Physics 101, 102, 104, 201, 202
- Mathematics 122, 128, 130, 135, 151, 201, 202, 216, 252, or BUSA 216
- At least one course must be a laboratory course. Courses must be taken in more than one academic discipline.

C. Social Science - 8-9 credits

- Business Administration (Economics) 203, 204
 - Geography 100, 101, 102
 - History 101, 102, 201, 202, 204, 207, 208, 209, 210
 - Political Science 101, 102, 202, 203, 204, 250, 260
 - Psychology 201, 203, 204, 205, 206, 231, 250
 - Sociology 101, 201, 202, 204, 205, 210, 250
- Courses must be taken in more than one academic discipline

D. Humanities - 8-9 credits

- Art 101, 102, 200, 201, 202, 203, 204
- English 201, 203, 204, 205, 206, 208, 209, 211, 214, 215, 216, 217, 220
- Foreign Language* 101-202, 211, 212, 221, 222, 251 (not FORL 123, or 124)
- Humanities 105, 201, 207, 208, 209, 210, 211, 212, 213, 221, 294
- Music 109, 187, 213, 214
- Philosophy 101, 102, 215, 250
- Communication 101
- Drama 201

* Foreign Language requirements for individual baccalaureate degree programs will be the prerogative of the four-year college. Courses must be taken in more than one discipline.

Note: See Honors courses listed under course descriptions.

Transfer Areas of Study

Lake Michigan College academic advisors can help you access online transfer curriculum guides for programs at a wide variety of four-year schools. With these guides and the help of your advisor, you can build an academic plan that will make the most of your time at Lake Michigan College and position you for success when you transfer to the four-year school of your choice. Also, consult the Lake Michigan College Mall at www.macrao.org for transfer equivalencies and curriculum guides. Programs that you can prepare for include:

Art	Geography	Optometry
Biology	Geology	Pharmacy
Business Administration	Health	Philosophy
Chemistry	History	Physical Education and Wellness
Chiropractic	Hospitality and Tourism Management	Physical Science
Communication	Humanities	Physical Therapy
Computer Science	Law	Physician's Assistant
Dentistry	Law Enforcement	Physics
Elementary Education	Liberal Arts	Political Science
Engineering	Manufacturing Engineering (WMU)	Psychology
English	Mathematics	Secondary Education
Environmental Science	Medicine and Osteopathic Medicine	Social Work
Foreign Language	Mortuary Science	Sociology
Forensics	Music	Theatre
General Studies	Nuclear Engineering	Veterinary Medicine

Typical Course Loads

Full-time (14 week) status: 12+ credits

Part-time status; 6-11 credits

To complete an associate's degree in two years, you will need to carry 15-16 credit hours per semester for four, full-time semesters. This course load of four to five classes is recommended only if you are working less than 20 hours per week. Maximum credit hours allowed for 14 week semester is 18.

Many students take summer classes to reduce their course load during the regular school year. Summer semesters at Lake Michigan College are 7 to 14 weeks long compared to the 14-week fall and spring semesters.

Area of Study Transfer Credits

In addition to completing your general education requirements, which are outlined in the MACRAO Transfer Agreement section, you should begin work in your intended major or area of study. Learn about the course requirements in your field of study at the college or university to which you plan to transfer.

To make sure you choose appropriate classes at Lake Michigan College, you should:

1. Decide on the field of study you want to pursue and contact the Career Services Center or an academic advisor to get more information.
2. Decide on the college or university you plan to attend.

3. Meet with a Lake Michigan College academic advisor to plan your program of study. Academic advisors have up-to-date information about the transferability of Lake Michigan College courses.
4. Check the MACRAO internet site at www.macrao.org.
5. Once you have selected your transfer school, meet with an admissions representative from that school to better understand their admission process and explore college transfer requirements.
6. Apply to the transfer school one year in advance of the expected transfer date. At this time, you should request that a copy of your official transcript from the Office the Registrar be sent to the transfer school.

Undecided Students

If you know that you want to transfer to a four-year school but are unsure of what area of study you want to pursue, your Lake Michigan College academic advisor can help you plan a solid associate's degree program. With this, you can transfer to a four-year school, and make the most of your time and money at Lake Michigan College. You will also have access to job and career information during your time at Lake Michigan College that will allow you to explore the options available. Through the Career Services Center, people with special knowledge of career options can help you explore jobs and your own interests and talents.

General Education, Degree, & Certificate Requirements

Graduation

Once you complete the general education and degree requirements for graduation, you will be eligible to apply for the appropriate associate's degree from Lake Michigan College. If you complete requirements for a certificate program, you will be eligible to apply for a Certificate of Achievement. You may graduate at the end of the fall or winter semesters, with commencement exercises held annually at the close of the winter semester in early May. Participation in commencement does not mean that you have completed all of the requirements for your degree or certificate.

Graduation Requirements

Once you have earned at least **30** credit hours toward a degree, or **15** hours toward a certificate, you should request a pre-graduation audit. You may graduate under the Lake Michigan College catalog in effect at the time of initial registration at Lake Michigan College or any succeeding catalog. However, no student may graduate under the requirements of a catalog that is more than **10** years old.

A student who began courses at LMC prior to fall 1998 may have Healthful Living (PHED 200) waived for the first associate's degree only. The semester credit hour from this waiver must be met in another area to fulfill the total credit hours required for the degree. The college will accept a maximum of 30 credits by CLEP and 120 credits by transfer.

Requirements that must be met include:

1. Admission to Lake Michigan College.
2. **Associate Degree:** satisfactory completion of at least 61 semester hours of credit. Some programs require more than 61 semester hours. Of these, 61 or more total hours required for the associate degree, a minimum of 20 credit hours must be taken at Lake Michigan College. The remaining 41 or more credit hours may be from Lake Michigan College courses, CLEP credit, transfer credit (TR), prior experiential learning credit (PEL), articulated credit (AC), and credit by examination. Of the final 20 hours applied to the degree, 10 must be taken at Lake Michigan College and none of these 10 may be CLEP, TR, PEL or credit by examination.
Certificate of Achievement: Satisfactory completion of at least 30 semester hours of credit. Some programs require more than 30 semester hours. Of these 30 or more total hours required for the Certificate of Achievement, a minimum of 15 credit hours must be taken at Lake Michigan College. The remaining 15 or more credit hours may be from Lake Michigan College courses, CLEP, TR, PEL, AC or credit by examination. The final 10 credits needed to complete the Certificate of Achievement must be earned in Lake Michigan College courses, not CLEP, TR, PEL or credit by examination.
Level I Certificate: A Level I Certificate is a program with 1 to 29 credit hours that gives you the basic skills that are in demand by local employers. All of the credits can then be applied toward a Certificate of Achievement and toward the appropriate associate degree.
3. Course credits earned for fulfilling the requirements of a certificate and/or an associate's degree must be at the 100-level or above. Courses with numbers below 100 are graded but not used to compute a student's grade point average or calculated into graduation credit hour requirements.
4. A grade point average of not less than 2.00 (C).
5. For associate's degree, participate in Outcomes Assessment Testing (OAT) as managed by the administration of the college.

December Graduation

If you apply for December graduation, you must complete all program requirements by the end of the fall semester. If you don't complete all program requirements by the end of fall semester, you will have to re-apply and pay again for another graduation date. As a December graduate, you can attend the May commencement ceremony.

December Graduation Timeline

Applications available Sept. 1.
Last day to apply for December graduation is the second Friday in November.

May Graduation

If you apply for May graduation, you can finish any program requirement during the summer session immediately following. If, as a May graduate, you have not completed your program requirement by the end of the summer session, you will have to re-apply and pay again for another graduation date.

May Graduation Timeline

Applications available Jan. 1
Last day to apply for May graduation is the last Monday in February.

The Difference between Graduation and the Commencement Ceremony

Graduation refers to receiving a degree, diploma or certificate once you have been certified by the College as having met all requirements. After you submit an application for graduation, confirmation is made that all graduation requirements have been met, and that the degree or certificate is noted in the College's student information system so that it displays on your LMC transcript. Diplomas are printed and mailed after the degree confirmation process is complete, approximately six weeks after the end of the semester.

Commencement ceremony is an event. It is an opportunity for students, families, friends and the LMC community to celebrate your academic accomplishments. Participation in the ceremony does not mean that you have graduated. You will not receive your degree or diploma on that day. The College holds one ceremony each year.

Fees & Diplomas

The graduation application fee is the same for either the May or December graduation dates. This fee is non-refundable. Graduation statements will be posted to your transcripts and your diploma will be mailed approximately six weeks following the date of graduation or completion of all degree requirements. There is no additional charge to participate in commencement exercises.

Transfer Credit for Graduation

Courses you complete with a grade of 2.0 or better on a 4.0 scale at another accredited college will be accepted when they apply to your program at Lake Michigan College. These transfer credits **MUST** be received no later than two weeks immediately following the date of graduation from Lake Michigan College. Transfer credits must be received via an official college transcript mailed directly to Lake Michigan College. The grade point average (GPA) from another college does not affect the Lake Michigan College GPA.

Cooperative Work Experience

Cooperative Work Experience is a process of education that combines work experience with college instruction as an integral part of the community college curriculum. It is called Cooperative Work Experience because employers and educators cooperate to form a more complete educational program for students. It is a unique plan of education designed to develop skills and provide hands-on experience by integrating classroom study with planned, supervised work experience. At Lake Michigan College, the employer typically pays co-op positions and the student will typically earn college credit.

Internship

Internship is a process of education that combines work experience with college instruction as an integral part of the community college curriculum. Internship is a unique plan of education designed to develop skills and knowledge and to provide hands-on experience specific to a discipline by integrating classroom study with planned, supervised work experience. Internships form a more complete educational program for students. At Lake Michigan College, internships are typically unpaid positions and the student will typically earn college credit.

General Education

Students must select courses from the General Education Groups. Requirements vary for each associate's degree. Virtually all colleges and universities require a number of courses in English, humanities, biological and physical sciences, and social sciences that serve to broaden a student's intellectual background.

General Testing

As part of the College's effort to evaluate the effectiveness of our General Education program, each student will also participate in assessment as determined by and managed by the administration of the college. This assessment shall be of the requirements for each associate degree awarded by the college. The minimum group requirements for the various degrees are outlined on page 31.

When you complete the Associate of Arts, Associate of Science, or Associate in Business Administration, you will satisfy the freshman-sophomore general education requirement at most four-year institutions in Michigan by virtue of the Michigan Association of College Registrars and Admissions Officers (MACRAO) Transfer Agreement. See page 27 for more transfer information.

College Requirements

- English 101 and English 102 or 103.
- Political Science 101 or Political Science 102 or History 201 or History 202.
- Physical Education 200, 212 or 214 for associate's degree programs only.
- Outcomes Assessment Test for associate degree program only.

NOTE: Credits from only one of the following courses will count toward LMC graduation; PHED 200, 212 or 214.

Group Requirements

In addition to college requirements, you must select the required courses, which vary for each associate's degree, from the following groups.

Group I Science

- Biology 101, 108 (beginning fall 2006), 111, 112, 204, 205, 206, 210, 212
- Chemistry 101, 102, 104, 105, 106, 111, 112, 203, 204
Physical Science 104, 101
Physics 101, 104, 102, 201, 202
- Mathematics 122, 128, 130, 135, 151, 201, 202, 216, 252 or BUSA 216

NOTE: Only the mathematics courses listed will satisfy graduation requirements for Associate in Arts, Associate in Science, or Associate in General Studies degrees.

Group II Social Science

- Business Administration 203, 204
- Geography 100, 101, 102
- History 101, 102, 201, 202, 204, 207, 208, 209, 210
- Political Science 101, 102, 202, 203, 204, 250, 260
- Psychology 201, 203, 204, 205, 206, 231, 250
- Sociology 101, 201, 202, 204, 205, 210, 250

Group III Humanities

- Art 101, 102, 200, 201, 202, 203, 204
- Drama 201
- English 201, 203, 204, 205, 206, 208, 209, 211, 214, 215, 216, 217, 220
- Foreign Language 101, 102, 111, 112, 121, 122, 125, 126, 174, 175, 177, 178, 179, 180, 181, 182, 184, 185, 186, 187, 188, 189, 191, 193, 194, 195, 196, 198, 199, 201, 202, 211, 212, 221, 222, 251
- Humanities 105, 201, 207, 208, 209, 210, 211, 212, 213, 221, 294
- Music 109, 187, 213, 214
- Philosophy 101, 102, 215, 250
- Communication 101

*Note: See Honors Courses listed under Course Descriptions.

Specific Degree Requirements

Associate in Arts

Course Type	Number of Semester Hours	Notes
College requirements	10	
Group I a.	4	
Group I b.	4	
Group I c.	3 or 4	
Group II	6	
Group III	9	in at least two areas
Electives	24 or 25	
Total Hours	61	

Associate in Science

Course Type	Number of Semester Hours	Notes
College requirements	10	
Group I a, b, & c	23-24	At least 8 hours must be from Group I a or b; At least 3-4 must be from Group I c
Group II	6	
Group III	9	In at least two areas
Electives	12 or 13	
Total Hours	61	

Associate in Business Administration

Course Type	Number of Semester Hours	Notes
College requirements	10	
Group I a or b	4	
Group I c	4	Pre-Calculus Algebra 128
Group II	9	Economics 203 & 204, and Sociology 101 or Psychology 201
Communication 101	3	
Group III	6	In at least two areas
Department Requirements	26	See Business Administration Program
Total Hours	62	

Associate in Applied Science

Course Type	Number of Semester Hours	Notes
College requirements	10	
Group I, II, III	11	In at least two groups
Department Requirements	40+	See specific program
Total Hours	61+	

Associate in Applied Business

Course Type	Number of Semester Hours	Notes
College requirements	10	
Group I, II, III	9	In at least two areas
Department Requirements	42+	See specific program
Total Hours	61+	

Associate in Industrial Technology

Course Type	Number of Semester Hours	Notes
College requirements	10	
Department Requirements	51+	See specific program
Total Hours	61+	

Associate in Skilled Trade Technologies

Course Type	Number of Semester Hours	Notes
College requirements	10	
Support courses	14.5	See specific program major
Major courses and electives	36.5	See specific program major
Total Hours	61+	

Associate in General Studies

Course Type	Number of Semester Hours	Gen. Ed. Requirements
CIS 100 or 102	3 or 1	7
ENGL 101 and 102 or 103	6	2 and 3
POSC 101 or 102 or HIST 201 or 202	3	4 and 3
PHED 200	1 or 3	8 and 3
SCIENCE (Group I a or b)	3-4	
MATH (Group I c)	3-4	6 and 3
HUMANITIES (Group III)	3-4	1 and 3
Electives	34-41	Various
Total Hours	61	

Level I Certificate

A Level I Certificate is a program with 1 to 29 credit hours that gives you the basic skills that are in demand by local employers. All of the credits can then be applied toward a Certificate of Achievement and toward the appropriate associate degree.

Certificate of Achievement

Lake Michigan College offers certain specific certificate programs. Others may be developed to meet particular employment goals. Certificate programs require a minimum of 30 semester hours of credit for the Certificate of Achievement.

Additional Associate Degrees

You can earn additional associate's degrees when you meet all of the requirements of that particular degree. A minimum of 15 additional semester hours of "C" credit or higher must be completed at Lake Michigan College and these hours must specifically apply in the additional degree. You may graduate under the Lake Michigan College catalog in effect at the time of initial registration at Lake Michigan College or any succeeding catalog. However, no student may graduate under the requirements of a catalog that is more than 10 years old.

General Education, College, and Group Requirements For Graduates of Lake Michigan College

Lake Michigan College takes great pride in the quality of its Academic Programs. Data from cooperating baccalaureate institutions have consistently shown that LMC students who transfer to those universities do very well academically. Frequently our students earn higher grade point averages than students who began at the universities and maintain higher averages than the statewide average for transfer students.

A core component of our strong academic program is our General Education Requirement. All associates degree graduates of Lake Michigan College must meet requirements in eight general categories. These requirements were developed by the faculty and academic administrators and were approved by the college administration to be a part of all associate degrees granted. These requirements are embedded in coursework across all curricula and are measured within specific courses.

A well-educated student, upon completion of an associate degree program from Lake Michigan College, will be able to do the following:

1. Arts & Humanities

Demonstrate an awareness of the capacity, values, and variety of human experiences as expressed through the arts and humanities.

This objective can be satisfied by successfully completing any program requirements or electives listed under Group III: Humanities.

2. Communication

Express ideas both orally and in writing; demonstrate the ability to understand written, visual, and spoken communications; convey purpose, meaning, and main ideas effectively to individuals and groups.

This objective is fully satisfied by successfully completing College Requirements.

3. Critical Thinking

Identify central issues and assumptions in an argument, recognize important relationships, locate additional information sources, make reasonable inferences from data, deduce conclusions from data or information, interpret whether conclusions are warranted on the basis of the data analyzed, and evaluate evidence and authority.

This objective is fully satisfied by successfully completing College Requirements.

4. Culture and Society

Demonstrate an awareness of the commonality and diversity of individual and group behavior. Demonstrate awareness of the contemporary global community and its geographic, cultural, economic, political, and historical dimensions. Understand the history, structure, and function of American political, economic, and social institutions.

This objective is fully satisfied by successfully completing College Requirements.

5. Mathematics

Represent and solve problems using mathematical techniques. Demonstrate an awareness of the usefulness of mathematics in society.

This objective can be satisfied by successfully completing any program requirements or electives in Mathematics, including, but not limited to, those courses listed under Group I c.

6. Science

Demonstrate how basic principles of science apply to life and an understanding of our universe. Apply the methods of scientific inquiry and research to problem solving.

This objective can be satisfied by successfully completing any program requirements or electives in Science, including, but not limited to, those courses listed under Group I a and b.

7. Technology

Describe how changes in modern technology affect the individual, society, and the environment. Demonstrate the ability to use computers and related technology to manage and access information.

This objective can be satisfied by successfully completing program requirements or electives in a variety of areas. Please consult an advisor for more information.

8. Wellness

Demonstrate an awareness of the relationship between lifestyle choices and optimal health.

This objective is fully satisfied by successfully completing College Requirements.

Programs of Instruction

Field of Study	Degree								Certificate	Page #
	A.A.	A.S.	A.B.A.	A.A.S.	A.A.B.	A.G.S.	A.I.T.	A.S.T.		
Accounting					X					36
Administrative Office Systems					X				X	37
Agriculture										
Commercial Horticulture Operations				X						38
Commercial Turfgrass Operations				X						39
Landscape Horticulture				X						40
Viticulture				X						41
Art	X									42
Biology		X								43
Business Administration			X							44
Chemistry		X								45
Chiropractic (Pre)		X								46
Communication	X									47
Computer Information Systems										
Information Technology Option					X				X	48
Networking Option					X				X	49
Programming Option					X				X	50
Web Option					X				X	51
Computer Science for WMU				X						52
Corrections, Probation & Parole		X								53
Dental Assisting				X					X	54
Dental Hygienist				X						55
Dentistry (Pre)		X								56
Diagnostic Medical Sonography				X						57
Drafting & Design							X		X	58
Early Childhood Education				X					X	59
Education										
Elementary	X									60
Elementary WMU/LMC				X						61
Secondary	X	X								62
Energy										
Chemistry							X			63
Crafts							X			64
Fossil Fuels							X			65
HPRP							X			66
Power Plant							X			67

Programs of Instruction continued

Field of Study	Degree								Certificate	Page #
	A.A.	A.S.	A.B.A.	A.A.S.	A.A.B.	A.G.S.	A.I.T.	A.S.T.		
Engineering (Pre)		X								68
English	X									69
Environmental Science		X								70
Fire Science				X						71
Foreign Language	X									72
Forensics (Pre)		X								73
General Studies						X				74
General Technologies							X			75
Geography	X									76
Geology		X								77
Graphic Design				X					X	78
Health		X								79
History	X									80
Hospitality Management				X					X	82
Hospitality & Tourism Management				X						83
Humanities	X									84
Industrial Maintenance Technology							X			85
Fluid Power									X	86
Industrial Computing									X	86
Law (Pre)	X									87
Law Enforcement				X						88
Legal Office Systems					X				X	90
Liberal Arts	X									91
Machine Tool Technology							X		X	92
Machine Tool Certificate									X	93
Manufacturing Production									X	93
Numerical Control Specialty									X	93
Technology									X	93
Magnetic Resonance Imaging (MRI)				X					X	94
Management and Marketing					X					95
Customer Service									X	96
Management									X	96
Marketing									X	96
Manufacturing Engineering (WMU)				X						97

Field of Study	Degree								Certificate	Page #
	A.A.	A.S.	A.B.A.	A.A.S.	A.A.B.	A.G.S.	A.I.T.	A.S.T.		
Mathematics		X								98
Medical Assistant Technology				X						99
Medical Office Systems					X				X	100
Medicine & Osteopathic Medicine (Pre)		X								101
Mortuary Science (Pre)		X								102
Music	X			X						103/104
Nursing				X					X	105-108
Optometry (Pre)		X								109
Paramedic				X					X	110
Pharmacy (Pre)		X								111
Philosophy	X									112
Physical Education & Wellness		X								113
Physical Science		X								114
Pre-Physical Therapy		X								115
Physicians Assistant (Pre)		X								116
Physics		X								117
Political Science	X									118
Psychology	X									119
Radiologic Technology				X						120
Respiratory Care (Respiratory Therapy)				X						121
Skilled Trades Technology								X	X	122
Sociology/Social Work (Pre)	X									123
Theatre	X									124
Veterinary Medicine (Pre)		X								125
Water Purification Technology				X						126
Emergency Medical Services									X	127
Health									X	127

Accounting

Associate in Applied Business Degree Program Code 110

Advisor: Erick Pifer, (269) 927-8100 ext. 5004, pifer@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course requirements.

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition.....	3
English 103, Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to present.....	3

Support Courses

Mathematics 122, Intermediate Algebra.....	4
Psychology 201, Introduction to Psychology.....	3
Communication 101, Introduction to Public Speaking.....	3
Natural Science Elective, Group I a or b.....	4 or 5
Humanities Elective, Group III.....	3 or 4

Major Requirements

Business Administration 201, Principles of Accounting I.....	4
Business Administration 202, Principles of Accounting II.....	4
Business Administration 203, Principles of Economics (Macro).....	3
Business Administration 204, Principles of Economics (Micro).....	3
Business Administration 205, Business Law I.....	3
Business Administration 212, Accounting Applications on Computers.....	3
Business Administration 213, Cost Accounting I.....	3
Business Administration 218, Intermediate Accounting I.....	3
Business Administration 219, Intermediate Accounting II.....	3
Business Administration 224, Income Tax Accounting.....	3
Computer Information Systems 108, Computer Operations-Microcomputing.....	3

Electives (select six credits from the following list)

Business Administration 150, Job Search Seminar.....	1
Business Administration 210, Business Correspondence.....	3
Business Administration 214, Cost Accounting II.....	3
Business Administration 265, Accounting Co-op I.....	3
Business Administration 266, Accounting Co-op II.....	3
Computer Information Systems 100, Introduction to Computer Literacy.....	3

You should notify your advisor and the co-op coordinator of your intention to take BUSA 265 and BUSA 266 before beginning your second-year classes.

*Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

With a two-year degree in accounting, you will be prepared for entry-level accounting positions such as bookkeeper, accounts payable, payroll clerk, or assistant to an accountant.

You will compute, classify, record, and verify financial data and develop and maintain financial records.

Associate Degree

Upon completion of the 61-credit Accounting program, you may apply for an Associate in Applied Business degree.

Transfer Options

This program transfers to Siena Heights University's Bachelor of Accounting program; however if you plan to transfer to another four-year business school, you should enroll in the Business Administration program listed on page 41.

Sample Program Sequences

An advisor will help you make necessary changes to this recommended sequence.

Associate's Degree Program

Semester 1	Semester 2	Semester 3
BUSA 201	BUSA 202	BUSA 203
CIS 108	BUSA 212	BUSA 205
ENGL 101	COMM 101	BUSA 218
MATH 122	ENGL 103	BUSA 224
PHED 200	PSYC 201	Elective

Semester 4	Semester 5
BUSA 204	Elective
BUSA 213	Science
BUSA 219	Humanities
POSC 101 or HIST 201	
Elective	

Administrative Office Systems

Certificate of Achievement - Office Automation Specialist Program Code 142
Associate in Applied Business Degree Program Code 144

Advisor: Lisa Augustyniak, (269) 927-8171, augustyn@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree Requirements

Credit Hours

College Requirements

* English 101, English Composition	3
English 102, English Composition, or English 103, Technical Writing	3
*** Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3

Support Courses

Natural Science Elective, Group Ia or Ib	4
Social Science Elective, Group II	3 or 4
Humanities 201, Intro to the Arts	3
Communication 101, Introduction to Public Speaking	3

Major Requirements

Business Administration 100, Business Mathematics.....	3
Business Administration 101, Business Accounting I.....	3
* Business Administration 210, Business Correspondence	3
* Computer Information Systems 123, Spreadsheet Skills.....	1
* Computer Information Systems 223, Advanced Spreadsheet Skills	1
* Office Information Systems 114, Intermediate Keyboarding	3
* Office Information Systems 125, Records Management.....	3
* Office Information Systems 201, Advanced Keyboarding.....	3
* Office Information Systems 211, Office Procedures	3
* Office Information Systems 213, Word Processing Transcription	3
* Office Information Systems 217, Introduction to Word Processing Applications.....	3
* Office Information Systems 218, Advanced Word Processing Applications.....	3
** Office Information Systems 261, Office Co-op I	3

Program Electives (Select 7 credit hours)

Business Administration 103, Introduction to Business	3
** Business Administration 150, Job Search Seminar	1
Business Administration 209, Principles of Marketing	3
Business Administration 211, Principles of Management	3
** Computer Information Systems 106, Operating Systems	3
** Computer Information Systems 111, Database Concepts.....	3
Office Information Systems 262, Office Co-op II.....	3

* Required for certificate program

** Elective for certificate program - select 2 - 3 credit hours

***Transferring students are encouraged to take PHED 212 or PHED 214.

Some courses may be offered in an Open Entry/Open Exit (OE/OE) format. See course description.

You should notify your advisor and the co-op coordinator of your intention to take OIS 261 or OIS 262 before beginning your second-year classes.

About the Area of Study

The Administrative Office Systems program teaches you office skills, computer software, keyboarding, and other general business functions. As an administrative office assistant, you may perform a variety of administrative activities such as scheduling appointments, organizing and maintaining files, managing projects, producing correspondence, working with customers, training new staff, conducting research on the Internet, and operating office technologies. Typical places of employment include business, professional, and government agencies.

Certificate & Degree Options

By completing the 61-credit program in Administrative Office Systems, you may apply for an Associate in Applied Business degree.

Transfer Options

This degree transfers to Siena Heights University's Bachelor of Applied Science program. Work with your LMC advisor if you wish to transfer to another college or university.

Sample Course Sequence

An advisor will help you make necessary changes to these recommended sequences.

Certificate Program

Semester 1	Semester 2
ENGL 101	OIS 125
OIS 114	CIS 223
BUSA 210	OIS 201
OIS 211	OIS 213
OIS 217	OIS 218
CIS 123	Program Elective

Associate's Degree Program

Semester 1	Semester 2	Semester 3
ENGL 101	BUSA 100	BUSA 101
OIS 114	ENGL 102 or	CIS 223
BUSA 210	ENGL 103	OIS 125
OIS 211	CIS 123	POSC 101 or
OIS 217	OIS 201	POSC 102 or
	OIS 218	HIST 201 or
	PHED 200	HIST 202
		General Elective
		Program Elective

Semester 4

OIS 213
OIS 261
COMM 101
General Elective
Program Elective

Agriculture – Commercial Horticulture Operations

Associate in Applied Science Degree

Commercial Horticulture Operations Program Code 280

Advisors: Stacey Rocklin, (269) 927-8100 ext. 5712, rocklin@msu.edu
Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course requirements.

LMC College Requirements: Credit Hours

English 101, English Composition	LMC - 3
English 102, English Composition, or English 103, Technical Writing	LMC - 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	LMC - 3
Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	LMC - 1 or 3

Outcomes Assessment Test must be completed prior to graduation.

Support Courses

MSU Institute of Agricultural Technology

(note: These are MSU courses, not LMC courses)

(All MSU courses will be transcribed as elective credit. Please see advisor for explanation.)

Ag. Technology 293, Professional Internship in Ag. Tech.....	MSU - 3 min.
Horticulture 215, Plant Industries Seminar	MSU - 1
Plant Pathology 200, Plant Diseases and Their Pathogens.....	MSU - 3
Entomology 110 Applied Entomology of Economic Plants	MSU - 3
Crop and Soil Sciences 210, Fund. of Soil & Landscape Science....	MSU - 3
Horticulture 213, Landscape Maintenance.....	MSU - 2
Horticulture 218, Landscape Irrigation	MSU - 3
Environmental Studies and Agriscience 225, Land & Environmental Issues in Law and Policy	MSU - 3

Lake Michigan College

Business 203, Principles of Economics (Macro)	LMC - 3
Biology 112, Principles of Biology II	LMC - 4
Chemistry 104, Fundamentals of General, Organic and Biochemistry	LMC - 4
Computer Information Systems 100, Introduction to Computer Literacy	LMC - 3
Mathematics 122, Intermediate Algebra	LMC - 4
Group III Humanities (Not including: COMM 101, FORL 123, FORL 124) ...	LMC - 3

Major Courses

(note: These are MSU courses, not LMC courses)

MSU Commercial Horticulture Operations

Choose minimum 9 required credits from list of courses below.

Horticulture 205, Plant Mineral Nutrition	MSU - 1
Horticulture 208, Pruning and Training Systems in Horticulture	MSU - 3
Horticulture 221, Greenhouse Structures and Management	MSU - 3
Horticulture 242, Passive Solar Greenhouses for Protected Cultivation	MSU - 1
Horticulture 251, Organic Farming Principles and Practices	MSU - 3
Horticulture 253, Compost Production and Use	MSU - 1
Horticulture 332, Tree Fruit Production and Management	MSU - 2
Horticulture 335, Berry Crop Production and Management	MSU - 1
Horticulture 341, Vegetable Production and Management	MSU - 3

About the Area of Study

Lake Michigan College and MSU's Institute of Agricultural Technology have formed a partnership that allows students to earn an Associate in Applied Science Degree from LMC and at the same time also earn a certificate from MSU. This unique Agriculture degree plus certificate provides students with a solid background in the plant sciences along with specific expertise and skills needed for careers in the horticulture industry. With these skills, students in the Commercial Horticulture Operations Option find jobs growing plants in nurseries, orchards and greenhouses, locally or beyond. This is a great option for students who love growing plants and don't want to go all the way to East Lansing for this same degree.

Degree Options

Upon completion of this program, students may apply for an Associate in Applied Science from Lake Michigan College and a certificate from the MSU Institute of Agricultural Technology in Applied Plant Science with a concentration in Commercial Horticulture Operations.

Transfer Option

This MSU program is offered only in south-west Michigan in partnership with Lake Michigan College. For students who wish to continue their education, LMC credits will transfer to a Bachelors program at MSU.

Sample Course Sequence

*An advisor will help you develop a program plan, apply to MSU's IAT, register for classes and choose electives.

Agriculture – Commercial Turfgrass Operations

Associate in Applied Science Degree

Commercial Turfgrass Operations Program Code 281

Advisors: Stacey Rocklin, (269) 927-8100 ext. 5712, rocklin@msu.edu
Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course requirements.

LMC College Requirements:	Credit Hours
English 101, English Composition	LMC - 3
English 102, English Composition, or English 103, Technical Writing	LMC - 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	LMC - 3
Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	LMC - 1 or 3

Outcomes Assessment Test must be completed prior to graduation.

Support Courses

MSU Institute of Agricultural Technology

(note: These are MSU courses, not LMC courses)
(All MSU courses will be transcribed as elective credit. Please see advisor for explanation.)

Ag. Technology 293, Professional Internship in Ag. Tech.....	MSU - 3 min.
Horticulture 215, Plant Industries Seminar	MSU - 1
Plant Pathology 200, Plant Diseases and Their Pathogens.....	MSU - 3
Entomology 110 Applied Entomology of Economic Plants	MSU - 3
Crop and Soil Sciences 210, Fund. of Soil & Landscape Science.....	MSU - 3
Horticulture 213, Landscape Maintenance.....	MSU - 2
Horticulture 218, Landscape Irrigation	MSU - 3
Environmental Studies and Agriscience 225, Land & Environmental Issues in Law and Policy	MSU - 3

Lake Michigan College

Business 203, Principles of Economics (Macro)	LMC - 3
Biology 112, Principles of Biology II	LMC - 4
Chemistry 104, Fundamentals of General, Organic and Biochemistry	LMC - 4
Computer Information Systems 100, Introduction to Computer Literacy	LMC - 3
Mathematics 122, Intermediate Algebra	LMC - 4
Group III Humanities (Not including: COMM 101, FORL 123, FORL 124)	LMC - 3

Major Courses

(note: These are MSU courses, not LMC courses)

MSU Institute of Agricultural Technology Commercial Turfgrass Operations:

Required Courses

CSS 202 The World of Turf	MSU - 2
CSS 203 Applied Turf Management	MSU - 1
CSS 290 Independent Study in Crop and Soil Science	MSU - 1
CSS 292 Management of Turfgrass Weeds	MSU - 3

Electives: choose minimum 2 credits

CSS 181 Pesticide and Fertilizer Application Technology	MSU - 3
HRT 111 Landscape Design	MSU - 3
HRT 208 Pruning and Training Systems in Horticulture	MSU - 3
HRT 211 Landscape Plants I	MSU - 3
HRT 212 Landscape Plants II	MSU - 3
HRT 214 Landscape and Turfgrass Business Operations	MSU - 2
HRT 290 Independent Study in Ornamental Horticulture	MSU - 2

About the Area of Study

Lake Michigan College and MSU's Institute of Agricultural Technology have formed a partnership that allows students to earn an Associate in Applied Science Degree from LMC and at the same time also earn a certificate from MSU. This unique Agriculture degree plus certificate provides students with a solid background in the plant sciences along with specific expertise and skills needed for careers in the horticulture industry. With these skills, students in the Commercial Turfgrass Operations Option find jobs growing and maintaining turfgrass for golf courses, commercial sites, and residences. The Commercial Turfgrass Operations Option is great for students who want the same Michigan State University two-year degree, but now it is offered locally.

Degree Options

Upon completion of this program, students may apply for an Associate in Applied Science from Lake Michigan College and a Certificate from the MSU Institute of Agricultural Technology in Applied Plant Science with a concentration in Commercial Turfgrass Operations.

Transfer Option

This MSU program is offered only in southwest Michigan in partnership with Lake Michigan College. For students who wish to continue their education, LMC credits will transfer to a Bachelors program at MSU.

Sample Course Sequence

*An advisor will help you develop a program plan, apply to MSU's Institute of Ag Tech, register for classes and choose electives.

Agriculture – Landscape Horticulture

Associate in Applied Science Degree

Landscape Horticulture Program Code 282

Advisors: Stacey Rocklin, (269) 927-8100 ext. 5712, rocklin@msu.edu
Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course requirements.

LMC College Requirements:

Credit Hours

English 101, English Composition	LMC - 3
English 102, English Composition, or English 103, Technical Writing	LMC - 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	LMC - 3
Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	LMC - 1 or 3

Outcomes Assessment Test must be completed prior to graduation.

Support Courses

MSU Institute of Agricultural Technology

(note: These are MSU courses, not LMC courses)

(All MSU courses will be transcribed as elective credit. Please see advisor for explanation.)

Ag. Technology 293, Professional Internship in Ag. Tech.....	MSU - 3 min.
Horticulture 215, Plant Industries Seminar	MSU - 1
Plant Pathology 200, Plant Diseases and Their Pathogens.....	MSU - 3
Entomology 110 Applied Entomology of Economic Plants	MSU - 3
Crop and Soil Sciences 210, Fund. of Soil & Landscape Science	MSU - 3
Horticulture 213, Landscape Maintenance.....	MSU - 2
Horticulture 218, Landscape Irrigation	MSU - 3
Environmental Studies and Agriscience 225, Land & Environmental Issues in Law and Policy	MSU - 3

Lake Michigan College

Business 203, Principles of Economics (Macro)	LMC - 3
Biology 112, Principles of Biology II	LMC - 4
Chemistry 104, Fundamentals of General, Organic and Biochemistry	LMC - 4
Computer Information Systems 100, Introduction to Computer Literacy	LMC - 3
Mathematics 122, Intermediate Algebra	LMC - 4
Group III Humanities (Not including: COMM 101, FORL 123, FORL 124) ...	LMC - 3

Major Courses

(note: These are MSU courses, not LMC courses)

Landscape Horticulture

HRT 111 Landscape Design	MSU 3
HRT 211 Landscape Plants I	MSU - 3
HRT 212 Landscape Plants II	MSU - 3

About the Area of Study

Lake Michigan College and MSU's Institute of Agricultural Technology have formed a partnership that allows students to earn an Associate in Applied Science Degree from LMC and at the same time also earn a certificate from MSU. This unique Agriculture degree plus certificate provides students with a solid background in the plant sciences along with specific expertise and skills needed for careers in the horticulture industry. With these skills, students in the Landscape Horticulture Option find jobs installing and maintaining plants, gardens and hardscapes at commercial sites and residences. The Landscape Horticulture Option is great for students who want the same Michigan State University two-year degree, but now it is offered locally.

Degree Options

Upon completion of this program, students may apply for an Associate in Applied Science from LMC and a Certificate from the MSU Institute of Agricultural Technology in Applied Plant Science with a concentration in Landscape Horticulture.

Transfer Option

This MSU program is offered only in southwest Michigan in partnership with Lake Michigan College. For students who wish to continue their education, LMC credits will transfer to a Bachelors program at MSU.

Sample Course Sequence

*An advisor will help you develop a program plan, apply to MSU's Institute of Ag Tech, register for classes and choose electives.

Agriculture – Viticulture

Associate in Applied Science Degree Program Code 282

Advisors: Stacey Rocklin, (269) 927-8100 ext. 5712 rocklin@msu.edu
Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course requirements.

LMC College Requirements: Credit Hours

English 101, English Composition	LMC - 3
English 102, English Composition, or English 103, Technical Writing	LMC - 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	LMC - 3
Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	LMC - 1 or 3

Outcomes Assessment Test must be completed prior to graduation.

Support Courses

MSU Institute of Agricultural Technology

(note: These are MSU courses, not LMC courses)

(All MSU courses will be transcribed as elective credit. Please see advisor for explanation.)

Ag. Technology 293, Professional Internship in Ag. Tech.....	MSU - 3 min.
Plant Pathology 200, Plant Diseases and Their Pathogens.....	MSU - 3
Entomology 110 Applied Entomology of Economic Plants	MSU - 3
Environmental Studies and Agriscience 225, Land & Environmental Issues in Law and Policy	MSU - 3
Viticulture 293, Soils for Viticulture	VESTA - 3

Lake Michigan College

Business 203, Principles of Economics (Macro)	LMC - 3
Biology 112, Principles of Biology II	LMC - 4
Chemistry 104, Fundamentals of General, Organic and Biochemistry	LMC - 4
Computer Information Systems 100, Introduction to Computer Literacy	LMC - 3
Mathematics 122, Intermediate Algebra	LMC - 4
Group III Humanities (Not including: COMM 101, FORL 123, FORL 124)	LMC - 3

Major Courses

(note: These are MSU courses, not LMC courses)

MSU Institute of Agricultural Technology

Horticulture 334, Current Issues in Viticulture and Enology.....	MSU - 3
Horticulture 432, Principles and Practices of Grape Production I	MSU - 3
Viticulture 111, Introduction to Viticulture & Vineyard Establishment	VESTA - 3
Viticulture 113, Winter Viticulture Technology.....	VESTA - 2
Viticulture 114, Spring Viticulture Technology.....	VESTA - 2
Viticulture 115, Summer Viticulture Technology	VESTA - 2
Viticulture 190, Vineyard Safety	VESTA - 1

Viticulture Electives Choose 1 course

Viticulture 146, Introduction to Enology, or	VESTA - 3
Viticulture 266, Sensory Evaluation.....	VESTA - 3

Please note, all VESTA courses are offered online only. Please contact advisor for help enrolling in VESTA courses. VESTA is the Viticulture and Enology Science and Technology Alliance Regional Center of Excellence, for more information see their website at www.vesta-usa.org.

About the Area of Study

The LMC Associate in Applied Science Degree plus the MSU Applied Plant Science Certificate in Viticulture provides students with a solid background in plant science along with the specific expertise and skills needed for careers in the rapidly expanding grape industry, supplying grapes for table, juice and wine making. This skill and expertise is in demand in Michigan and throughout North America and beyond. The combination of on-line viticulture courses delivered by experts from throughout the United States, hands-on experience at local vineyards, fresh markets, juice processors, packing plants and wineries and the fundamental plant science courses makes graduates in the Viticulture concentration in high demand.

Degree Options

Upon completion of this program, students may apply for an Associate in Applied Science from LMC and a Certificate from the MSU Institute of Agricultural Technology in Viticulture.

Transfer Option

This MSU program is offered only in southwest Michigan in partnership with Lake Michigan College. For students who wish to continue their education, LMC credits may transfer to four-year universities around the region; check with an advisor to be sure before taking classes.

Sample Course Sequence

*An advisor will help you develop a program plan, apply to MSU's Institute of Ag Tech and VESTA, register for classes and choose electives.

Art

Associate in Arts Degree - TRANSFER PROGRAM Program Code 031

Advisor: Dr. Denise Scameheorn, (269) 927-8100 ext. 5017 scameheorn@lakemichigancollege.edu

Sample Transfer Program

Meeting the 61-credit degree requirement for the Associate in Arts degree is the most typical curriculum for you to follow if you are planning to transfer to an art program at a four-year college or university. A variety of art courses, both studio and history, should also be included as well as working to develop a portfolio. **It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend.**

Courses

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Group Ia elective.....	4
Group Ib elective.....	4
Group Ic elective	3 or 4
Group II electives.....	6
Group III electives.....	9
Art courses	

About the Area of Study

Study and courses in Art can help you develop an appreciation for the visual arts as well as to expand your expertise and understanding in this field. You will study art theory and history, and work directly with a given medium in a studio environment in coursework such as Design, Drawing, Painting, Photography, Printmaking, Weaving, and Sculpture.

If you plan to transfer to a four-year school, you should become aware of the requirements for the freshman and sophomore years at the selected school. Also of great importance will be building a portfolio that represents all of your work prior to transfer. Students who complete this program will receive an Associate in Arts degree. Courses are open to all students.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Kendall (Ferris State University)
Michigan State University
Western Michigan University
University of Michigan

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

* Transferring students are encouraged to take PHED 212 or PHED 214.

Biology

Associate in Science Degree - TRANSFER PROGRAM Program Code 061

Advisor: Dr. Susan Lentz, (269) 927-8100 ext. 5076, lentz@lakemichigancollege.edu
Dr. Fran Miles, (269) 927-8100 ext. 7157, miles@lakemichigancollege.edu
Robert Schodorf, (269) 927-8100, ext. 5075, schodorf@lakemichigancollege.edu
Frank Stijnman (269) 927-8100 ext. 5256, stijnman@lakemichigancollege.edu
Dr. Melissa Howse-Willard (269) 927-8100 ext. 5194, willard@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Courses

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Mathematics 151, Calculus I	5
Biology 111, Principles of Biology I.....	4
Biology 112, Principles of Biology II.....	4
Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II	4
Chemistry 203, Organic Chemistry I.....	4
Chemistry 204, Organic Chemistry II.....	4
General electives	7
Group II electives	6
Group III electives.....	9

*Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Central Michigan University
Ferris State University
Grand Valley State University
Michigan Technological University
Tuskegee University
University of Michigan
Western Michigan University

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

Biology deals with living organisms and vital processes, including microbial plant and animal life. Your study in Biology may include coursework in areas such as Botany, Zoology, Ecology, Anatomy and Physiology, Cell Biology, Molecular Biology, Biotechnology, Microbiology, and Genetics.

A Biology concentration consists of a minimum of 12 hours of coursework in the discipline. Sixty semester hours of Lake Michigan College credit can be transferred to the Biology major program of any Michigan college or university. You should consult with the Biology advisor to plan courses which best fit the senior college program to which you plan to transfer.

There is a 61-credit degree requirement needed for graduation.

Business Administration

Associate in Business Administration Degree - TRANSFER PROGRAM

Program Code 150

Advisor: Lisa Augustyniak, (269) 927-8171, augustyn@lakemichigancollege.edu
 Greg Iwaniuk, (269) 927-8100 ext. 2949, iwaniuk@lakemichigancollege.edu
 Erick Pifer, (269) 927-8100 ext. 5004, pifer@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3

Support Courses

Mathematics 128, Pre-Calculus Algebra	4
Sociology 101, Principles of Sociology, or Psychology 201, Introduction to Psychology	3
Communication 101, Introduction to Public Speaking**	3
Humanities Electives, Group III (See pg. 30)	6
Natural Science Elective, Group Ia or Ib (See pg. 30).....	4

Major

**Business Administration 103, Introduction to Business, or Business Administration, approved elective.....	3
Business Administration 201, Principles of Accounting I	4
Business Administration 202, Principles of Accounting II	4
Business Administration 203, Principles of Economics (Macro).....	3
Business Administration 204, Principles of Economics (Micro).....	3
Business Administration 209, Principles of Marketing	3
Business Administration 216, Business Statistics	3
Business Administration 220, Organizational Behavior	3
Computer Information Systems 100, Introduction to Computer Literacy.....	3
Computer Information Systems 251, Computer Programming (BASIC).....	3

*Transferring students are encouraged to take PHED 212 or PHED 214.

**You can substitute an approved elective for BUSA 103. See your advisor for approval.

***Required Humanities to meet MACRAO Agreement.

About the Area of Study

The Business Administration program is a transfer program that will help you learn business and communication principles that can lead to careers in accounting, economics, finance, general business, management, marketing, human resource administration, and public relations.

Associate's Degree

This program leads to an Associate in Business Administration degree and prepares you to transfer to a four-year college or university by completing 62 credits needed for graduation.

Transfer Options

Work with your advisor to develop a program plan that will best transfer to the bachelor degree program of your choice. This program meets MACRAO requirements (see page 26). It is accepted by Siena Heights University toward a Bachelor of Arts in Business Administration Degree. Western Michigan University-Southwest accepts this program toward its Bachelor of Arts in Business Administration.

Sample Course Sequence

An advisor will help you make necessary changes to this recommended sequence.

Associate's Degree Program

Semester 1	Semester 2
BUSA 103	BUSA 204
BUSA 203	BUSA 216
ENGL 101	ENGL 102 or
MATH 128	ENGL 103
SOC 101 or	POSC 101 or
PSYC 201	POSC 102 or
	HIST 201 or
	HIST 202
	Lab Science Elective
Semester 3	Semester 4
BUSA 201	BUSA 202
BUSA 209	COMM 101
BUSA 220	CIS 251
CIS 100	HUMN Elective
HUMN Elective	PHED 200
General Elective	

Chemistry

Associate in Science Degree - TRANSFER PROGRAM Program Code 064

Advisor: Dr. Bal Barot, (269)927-8100 ext. 5072, barot@lakemichigancollege.edu
Dr. Paige Eagan, (269) 927-8100 ext. 5257, eagan@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Courses

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Mathematics 151, Calculus I.....	5
Biology 111, Principles of Biology I.....	4
Biology 112, Principles of Biology II.....	4
Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II.....	4
Chemistry 203, Organic Chemistry I.....	4
Chemistry 204, Organic Chemistry II.....	4
Physics 201, Engineering Physics I.....	5
Physics 202, Engineering Physics II.....	5
Group II Social Science electives.....	6
Group III Humanities electives.....	9

*Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Central Michigan University
Grand Valley State University
Michigan State University
University of Michigan
Western Michigan University

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

Chemistry deals at the atomic level with the material of which the world is composed. As a chemist you will study these materials along with their compositions, structures, and changing properties. You will also develop techniques to apply your knowledge in areas such as agriculture, energy, and medicine. Industry, education, and government offer opportunities for employment in chemistry.

Your high school transcript should show a strong background in mathematics, chemistry, and physics. If not, Lake Michigan College offers the basic courses needed, and an advisor can help to plan a program for success.

The Chemistry program meets the freshman and sophomore requirements in most four-year institutions although specific course requirements vary. To make sure your credit will transfer to the school of your choice, work with your advisor to help you select transferable courses. There is a 61-credit degree requirement needed for graduation.

Chiropractic (Pre)

Associate in Science Degree - TRANSFER PROGRAM Program Code 080

Advisor: Frank Stijnman, (269) 927-8100 ext. 5256, stijnman@lakemichigancollege.edu
Dr. Fran Miles, (269) 927-8100 ext. 7157, miles@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Courses

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Mathematics 151, Calculus I.....	5
Biology 111, Principles of Biology I.....	4
Biology 112, Principles of Biology II.....	4
Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II.....	4
Physics 101, General Physics I.....	5
Physics 102, General Physics II.....	5
Group II Social Science electives.....	6
Group III Humanities electives.....	9

*Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

National College of Chiropractic Palmer College of Chiropractic

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

A chiropractor is a member of the healthcare profession who treats ailments without the use of drugs or surgery. Most chiropractors enter private practice; others enter chiropractic education.

You can prepare for a chiropractic career by completing a two-year program at Lake Michigan College and transferring credits to a chiropractic college. You should become familiar with the admission requirements of the college you want to attend. The Pre-Chiropractic advisor will assist you in planning a program of study.

Through an agreement with Palmer College of Chiropractic, students who meet specified requirements will receive preferred admission status at that college. **There is a 61-credit degree requirement needed for graduation.**

Communication

Associate in Arts Degree - TRANSFER PROGRAM Program Code 043

Advisor: Sharon Klemm, (269) 927-8100 ext. 5177, klemms@lakemichigancollege.edu

Sample Transfer Program

It is essential that you consult with an advisor for the specific requirements of the college you plan to attend.

Courses

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Communication 101, Introduction to Public Speaking.....	3
Sociology 101, Principles of Sociology.....	3
Group Ia elective.....	4
Group Ib elective.....	4
Group Ic elective	3 or 4
Group II Social Science electives.....	6
Group III Humanities electives.....	6
General Electives.....	24 or 25

*Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Central Michigan University
Grand Valley State University
Michigan State University
Western Michigan University
University of Michigan

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

Communication provides you with an opportunity to explore the dynamics that govern how humans exchange information both individually and in groups. An education in communication is designed to help you become a communication specialist in marketing, management, sales, media, government, or secondary education.

If you plan to transfer to a four-year institution, you should find out what the freshman and sophomore years' degree requirements are for the school that you want to attend. You should work with a counselor or advisor to plan a program that will transfer. **There is a 61-credit degree requirement for graduation.**

Computer Information Systems

Level I Information Technology Certificate Program Code 161A

Associate in Applied Business Degree - Information Technology Program Code 160A

Advisors: Gary Grannell, (269) 927-8100 ext. 5011, grannell@lakemichigancollege.edu
Charles Olszewski, (269) 927-8100 ext. 5044, olszewski@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree & Certificate Requirements Credit Hours

College Requirements

English 101, English Composition.....	3
English 103, Technical Writing.....	3
History 201, American History to 1865, or History 202, American History 1865 to Present, or Political Science 101, National Government, or Political Science 102, State Governments.....	3
** Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3

Support Courses

Mathematics 128, Pre-Calculus Algebra.....	4
Psychology 201, Introduction to Psychology.....	3
Communication 101, Introduction to Public Speaking.....	3
Philosophy 250, Sophomore Seminar in Philosophy, or Philosophy 102 Intro to Logic.....	3
Business Administration 204, Principles of Economics (Micro).....	3
Business Administration 201, Principles of Accounting I.....	4
Biology 101, Biological Science.....	4

Major Requirements

*Computer Information Systems 106, Intro to Operating Systems.....	3
*Computer Information Systems 108, Computer Operations, Microcomputing....	3
*Computer Information Systems 111, Database Concepts.....	3
*Computer Information Systems 118, Basic Web Design.....	3
*Computer Information Systems 140, Computer Networking Fundamentals.....	3
Computer Information Systems 145, Computer Programming. COBOL 1.....	3
Computer Information Systems 155, Comparative Operating Systems.....	3
Computer Information Systems 200, PC Hardware.....	3

Electives (Select 6 credit hours)

Computer Information Systems 261, Co-op 1.....	3
Computer Information Systems 156, Practical Computer Security.....	3
Computer Information Systems 208, Adv. Microcomputer Applications.....	3
Computer Information Systems 242, Windows Server.....	3
Computer Information Systems 245, Computer Programming. COBOL 2.....	3
Computer Information Systems 250, Advanced Topics, CIS.....	4
Computer Information Systems 251, Computer Programming. BASIC.....	3
Computer Information Systems 254, Computer Programming. C.....	3
Computer Information Systems 255, Structured Query Language.....	3
Computer Information Systems 260, Computer Programming. Visual BASIC.....	3
Computer Information Systems 264, Computer Programming. C++.....	3
Computer Information Systems 265, Computer Programming. Visual BASIC 2...	3

* Indicates courses needed for Level I certificate.

** Transferring students are encouraged to take PHED 212 or PHED 214.

You should notify your advisor and the co-op coordinator of your intention to take CIS 261 before beginning your second-year classes.

About the Area of Study

The CIS Information Technologies option emphasizes the overall business support function of computer information systems. It can lead to careers as database managers and computer support specialists.

Associate's Degree

When you complete the 63-credit program, you may apply for an Associate in Applied Business degree.

Level I certificate is 15 credit hours.

Transfer Options

Lake Michigan College has a special agreement with Davenport University that articulates this degree with Davenport's Bachelor of Computer Information Systems and Bachelor of Computer Gaming and Simulation programs.

Sample Course Sequence

An advisor will help you make necessary changes to these recommended sequences.

Level I Certificate Program

Semester 1	Semester 2
CIS 106	CIS 111
CIS 108	CIS 118
CIS 140	

Associate's Degree Program

Semester 1	Semester 2
ENGL 101	ENGL 103
BUSA 204	BUSA 201
COMM 101	CIS 111
CIS 106	CIS 108
CIS 145	CIS 200
PHED 200	

Semester 3 Semester 4

MATH 128	Elective
PSYC 201	PHIL 250
CIS 140	CIS 261
CIS 155	CIS 118
Elective	POSC 101 or POSC 102 or HIST 201 or HIST 202

Computer Information Systems

Level I Certificate PC and Network Technician Program Code 161B

Associate in Applied Business Degree - Networking Program Code 160B

Certificate of Achievement - Cisco Program Code 165

Advisors: Gary Grannell, (269) 927-8100 ext. 5011, grannell@lakemichigancollege.edu
Charles Olszewski, (269) 927-8100 ext. 5044, olszewski@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree & Certificate Requirements Credit Hours

College Requirements

# English 101, English Composition	3
English 103, Technical Writing	3
History 201, American History to 1865, or History 202, American History, 1865 to Present, or Political Science 101, National Government, or Political Science 102, State Governments.....	3
** PHED 200, Healthful Living, or PHED 212, Health and Fitness, or PHED 214, Personal Health	1 or 3

Support Courses

MATH 128, Pre-Calculus Algebra	4
PSYC 201, Introduction to Psychology	3
BUSA 204, Principles of Economics (Micro).....	3
BUSA 201, Principles of Accounting I	4
PHYS 101, General Physics I.....	4

Major Requirements

#* CIS 100 Intro to computer literacy, or #*CIS 106 Intro to Operating Systems, or #*CIS 108 Computer Operations, Microcomputing	3
#* CIS 140 Computer Networking Fundamentals.....	3
#* CIS 155 Comparative Operating Systems.....	3
#* CIS 156 Practical Security	3
#* CIS 200 PC Hardware	3
#* CIS 226 Cisco INTRO review.....	3
# CIS 228 Switched and Routed Networks	3
# CIS 242 Windows Servers	3

Electives (Select 9 credit hours)

COMM 101, Introduction to Public Speaking	3
PHIL 250, Sophomore Seminar in Philosophy, or PHIL 102, Intro to Logic.....	3
CIS 111 Database Concepts	3
CIS 117 Intro Game Design Theory.....	3
CIS 118 Basic Web Design.....	3
CIS 124 Database skills.....	1
CIS 136 Game Design II.....	3
CIS 219 Advanced Web Design	3
CIS 220 Web Programming	3
CIS 221 Server Side Programming.....	3
CIS 224 Advanced Database skills.....	1
# CIS 227 Cisco ICND 2/CCNA review	3
# CIS 241 Switching and Routing.....	3
CIS 250 Advanced Topics, CIS.....	4
CIS 251 Computer Programming - BASIC.....	3
CIS 254 Computer Programming - C.....	3
CIS 255 Structured Query Language.....	3
CIS 260 Computer Programming - Visual Basic.....	3
CIS 261 Co-op I	3
CIS 264 Computer Programming - C++.....	3

* Indicates courses needed for Level I certificate.

** Transferring students are encouraged to take PHED 212 or PHED 214.

Indicates courses need for Certificate of Achievement - Cisco

You should notify your advisor and the co-op coordinator of your intention to take CIS 261 before beginning your second-year classes.

About the Area of Study

The CIS Networking option emphasizes the networking software, hardware, and preparation for certification exams. It can lead to careers in network and computer systems administration working with local area networks, wide area networks, Internet and Intranet systems, and network segments.

Associate's Degree

When you complete the 63-credit program, you may apply for an Associate in Applied Business degree.

Transfer Options

The sample course sequence includes courses that may transfer only as elective credit. It is essential that you work with a counselor or academic advisor to develop an individual program that meets the specific requirements of the college/university you plan to attend.

Sample Course Sequence

An advisor will help you make necessary changes to these recommended sequences.

Level I Certificate Program PC and Network Technician

Semester 1	Semester 2
CIS 100, 106, or 108	CIS 155
CIS 140	CIS 200
CIS 156	CIS 226

Cisco Certificate of Achievement

Semester 1	Semester 2
CIS 100, 106, or 108	CIS 155
CIS 140	CIS 200
CIS 156	CIS 226

Semester 3	Semester 4
CIS 228	CIS 227
CIS 242	ENGL 101

Associate Degree Program

Semester 1	Semester 2
ENGL 101	ENGL 103
CIS 100, 106 or 108	CIS 155
CIS 140	CIS 200
CIS 156	CIS 226
College requirement, course support, or elective	College requirement, course support, or elective

Semester 3	Semester 4
CIS 228	College requirement, course support, or elective
CIS 242	
College requirement, course support, or elective	

Computer Information Systems -

Level I Certificate Programming Option Program Code 161C

Associate in Applied Business Degree - Programming Option Program Code 160C

Advisors: Gary Grannell, (269) 927-8100 ext. 5011, grannell@lakemichigancollege.edu
Charles Olszewski, (269) 927-8100 ext. 5044, olszewski@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree & Certificate Requirements Credit Hours

College Requirements

English 101, English Composition.....	3
English 103, Technical Writing.....	3
History 201, American History to 1865, or History 202, American History 1865 to Present, or Political Science 101, National Government, or Political Science 102, State Governments.....	3
** Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3

Support Courses

Math 128, Pre-Calculus Algebra.....	4
Psychology 201, Introduction to Psychology.....	3
Communication 101, Introduction to Public Speaking.....	3
Philosophy 250, Sophomore Seminar in Philosophy, or Philosophy 102, Intro to Logic.....	3
Business 204, Principles of Economics (Micro).....	3
Business 201, Principles of Accounting I.....	4
Biology 101, Biological Science.....	4

Major Requirements

*CIS 106, Intro to Operating Systems.....	3
*CIS 108, Computer Operations, Microcomputing.....	3
CIS 145, Computer Programming - COBOL I.....	3
CIS 155, Comparative Operating Systems.....	3
CIS 200, PC Hardware.....	3
*CIS 251, Computer Programming - BASIC.....	3
CIS 254, Computer Programming - C.....	3
*CIS 260, Computer Programming - Visual BASIC.....	3

Electives (select 6 credit hours)

CIS 111, Database Concepts.....	3
CIS 118, Basic Web Design.....	3
CIS 140, Computer Networking Fundamentals.....	3
CIS 156, Practical Computer Security.....	3
CIS 208, Adv. Microcomputer Applications.....	3
CIS 242, Windows Server.....	3
CIS 245, Computer Programming - COBOL II.....	3
CIS 250, Advanced Topics, CIS.....	4
CIS 255, Structured Query Language.....	3
CIS 261, Co-op I.....	3
*CIS 264, Computer Programming - C++.....	3
CIS 265, Computer Programming - Visual BASIC 2.....	3

* Indicates courses needed for Level I certificate.

** Transferring students are encouraged to take PHED 212 or PHED 214.

You should notify your advisor and the co-op coordinator of your intention to take CIS 261 before beginning your second-year classes.

About the Area of Study

The CIS Programming option will allow you to develop skills in a variety of popular programming languages. Programmers can be found in almost every industry including telecommunications, financial institutions, educational institutions, government agencies, and management firms.

Associate's Degree & Certificate Options

When you complete the 63-credit program, you may apply for an Associate in Applied Business degree.

Level I certificate is 15 credit hours.

Transfer Options

The sample course sequence includes courses that may transfer only as elective credit. It is essential that you work with a counselor or academic advisor to develop an individual program that meets the specific requirements of

Sample Course Sequence

An advisor will help you make necessary changes to these recommended sequences.

Level I Certificate Program

Semester 1	Semester 2
CIS 106	CIS 251
CIS 108	
Semester 3	Semester 4
CIS 260	CIS 264

Associate's Degree Program

Semester 1	Semester 2
ENGL 101	ENGL 103
BUSA 204	BUSA 201
COMM 101	CIS 260
CIS 106	CIS 108
CIS 251	CIS 200
PHED 200	
Semester 3	Semester 4
MATH 128	Elective
PSYC 201	PHIL 250
CIS 145	CIS 261
CIS 155	CIS 254
Elective	POSC 101 or POSC 102 or HIST 201 or HIST 202

Computer Information Systems -

Level I Certificate Web Option Program Code 161D

Associate in Applied Business Degree - Web Option Program Code 160D

Advisors: Gary Grannell, (269) 927-8100 ext. 5011, grannell@lakemichigancollege.edu
Charles Olszewski, (269) 927-8100 ext. 5044, olszewski@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisite

Degree & Certificate Requirements Credit Hours

College Requirements

English 101, English Composition.....	3
English 103, Technical Writing.....	3
History 201, American History to 1865, or History 202, American History 1865 to Present, or Political Science 101, National Government, or Political Science 102, State Governments.....	3
** PHED 200, Healthful Living, or PHED 212, Health and Fitness, or PHED 214, Personal Health*.....	1 or 3

Support Courses

Math 128, Pre-Calculus Algebra.....	4
Psychology 201, Introduction to Psychology.....	3
Communication 101, Introduction to Public Speaking.....	3
Philosophy 102, Intro to Logic, or Philosophy 250, Sophomore Seminar in Philosophy.....	3
Business 204, Principles of Economics (Micro).....	3
Business 201, Principles of Accounting I.....	4
Biology 101, Biological Science.....	4

Major Requirements

CIS 106, Intro to Operating Systems.....	3
*CIS 108, Computer Operations, Microcomputing.....	3
*CIS 118, Basic Web Design.....	3
*CIS 219, Professional Web Design.....	3
*CIS 220, Web Programming.....	3
CIS 200, PC Hardware.....	3
*CIS 221 Server-Side Scripting.....	3
*CIS 251, Computer Programming - BASIC.....	3

Electives (Select 6 credit hours)

CIS 111, Database Concepts.....	3
CIS 145, Computer Programming - COBOL 1.....	3
CIS 156, Practical Computer Security.....	3
CIS 208, Adv. Microcomputer Applications.....	3
CIS 242, Windows Server.....	3
CIS 245, Computer Programming - COBOL 2.....	3
CIS 250, Advanced Topics, CIS.....	4
CIS 254, Computer Programming - C.....	3
CIS 255, Structured Query Language.....	3
CIS 260, Computer Programming - Visual BASIC.....	3
CIS 261, Co-op 1.....	3
CIS 264, Computer Programming - C++.....	3
CIS 265, Computer Programming - Visual BASIC 2.....	3

* Indicates courses needed for Level I certificate.

** Transferring students are encouraged to take PHED 212 or PHED 214.

You should notify your advisor and the co-op coordinator of your intention to take CIS 261 before beginning your second-year classes.

About the Area of Study

The CIS Web option will allow you to develop skills in a variety of popular Web design and programming languages. Web Designers and Programmers can be found in almost every industry including telecommunications, financial institutions, educational institutions, government agencies, and management firms. Web Design and Maintenance are regular features on any business whether large or small.

Associate's Degree & Certificate Options

When you complete the 63-credit program, you may apply for an Associate in Applied Business degree.

Level I certificate is 15 credit hours.

Transfer Options

The sample course sequence includes courses that may transfer only as elective credit. It is essential that you work with a counselor or academic advisor to develop an individual program that meets the specific requirements of the college/university you plan to attend.

Sample Course Sequence

An advisor will help you make necessary changes to these recommended sequences.

Level I Certificate Program

Semester 1	Semester 2	Semester 3
CIS 106	CIS 118	CIS 219
CIS 108	CIS 251	

Associate's Degree Program

Semester 1	Semester 2
ENGL 101	ENGL 103
BUSA 204	BUSA 201
COMM 101	CIS 118
CIS 106	CIS 251
CIS 108	CIS 200
PHED 200	

Semester 3	Semester 4
MATH 128	Elective
PSYC 201	PHIL 250
CIS 219	CIS 261
CIS 220	CIS 221
Elective	POSC 101 or POSC 102 or HIST 201 or HIST 202

Computer Science for Western Michigan University – Transfer Program

Associate in Applied Science Program Code 170

Advisors: James Larson, (269) 927-8100 ext. 5148, larsen@lakemichigancollege.edu
 Mike Durren, (269) 927-8100 ext. 5012, durren@lakemichigancollege.edu
 Charles Olszewski, (269) 927-8100 ext. 5044, olszewski@lakemichigancollege.edu

This program is specifically designed to meet the program requirements for the Bachelor of Science in Computer Science program at Western Michigan University.

Program Prerequisites

Proficiency in Reading, English and Mathematics. There are prerequisites for individual courses.

College Degree Requirements

Credit Hours

English 101, English Composition	3
English 103, Technical Writing	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	3

Program Requirements

Chemistry 111, General Chemistry I	4
Communications 101, Public Speaking	3
Computer Information Systems 251, Computer Programming – Basic	3
Computer Information Systems 254, C Programming	3
Engineering 103, Beginning Engineering Drawing	4
Mathematics 151, Calculus I	5
Mathematics 201, Calculus II	5
Mathematics 202, Calculus III	5
Mathematics 252, Differential Equation	4
Philosophy 102, Intro to Logic	3
Physics 201, Engineering Physics I	5
Physics 202, Engineering Physics II	5
Group III elective - choose from Art, Drama, Humanities, or Music	3

Sample Course Sequence

An advisor will help you make necessary changes to this recommended sequence.

Associate Degree Program

Semester 1

ENGL 101
 MATH 151
 PHYS 201
 Government or History

Semester 2

ENGL 103
 MATH 201
 PHYS 202
 COMM 101

Semester 3

MATH 202
 CHEM 111
 ENGR 103
 CIS 251
 PHED 212 or 214

Semester 4

MATH 252
 PHIL 102
 CIS 254
 COMM 101
 Group III elective - Art, Drama, Humanities, or Music

Corrections, Probation, & Parole

Associate in Applied Science Degree Program Code 386

Advisor: TBD

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition.....	3
English 103, Technical Writing, or English 102, English Composition.....	3
** Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3

Support Courses

Group Ic elective, or Business Administration 100, Business Mathematics.....	4/3
Psychology 201, Introduction to Psychology.....	3
Office Information Systems 102, Keyboarding II, or any CIS/OIS.....	2
Sociology 101, Principles of Sociology.....	3
Sociology 201, Modern Social Problems.....	3
Communication 101, Introduction to Public Speaking.....	3
General Elective.....	3/4

Major Requirements

*Corrections, Probation & Parole 160, Introduction to Corrections.....	3
*Corrections, Probation & Parole 161, Institutional Operations.....	3
*Corrections, Probation & Parole 162, Institutional Populations.....	3
*Corrections, Probation & Parole 163, Concepts of Rehabilitation.....	3
*Corrections, Probation & Parole 164, Legal Issues in Corrections.....	3
Law Enforcement 250, Juvenile Delinquency and Behavior.....	3
Law Enforcement 251, Seminar in Criminal Justice and Public Safety.....	3
Law Enforcement 252, Criminal Procedures.....	3
Corrections, Probation & Parole 264, Case Studies in Rehabilitation.....	3
*Program Elective.....	3

You may select a Law Enforcement or Corrections, Probation, & Parole course as a program elective. Before taking Seminar in Criminal Justice and Public Safety, please see an advisor.

*Courses needed for the Corrections Officer Academic Certificate program.

** Transferring students are encouraged to take PHED 212 or PHED 214.

To be hired as a Corrections Officer, you must comply with the following State of Michigan requirements:

1. Before being hired, an applicant must pass a physical fitness test given by the Michigan Department of Corrections (MDOC).
2. An applicant must have acceptable vision, hearing, general good physical health, and pass a drug screen.
3. Any individual who has been convicted of a felony or domestic violence cannot be hired and may be considered ineligible for the program. Consideration cannot be given to an applicant who is on probation, has outstanding warrants, or has a controlled substance (drug) related conviction in any jurisdiction, including drug-related military discharges.
4. An applicant who has been convicted of any misdemeanor will not be eligible for employment until one year after satisfactory completion of any sentence imposed, including probation.

About the Area of Study

This program trains you for jobs in corrections, probation, parole, and related fields. The certificate program is for those interested in an entry-level position in corrections. These are typically found county, state, or federal jails, prisons, or juvenile centers.

The associate's degree program is a transfer program. If you are interested in a career in probation or parole, you will need to pursue a bachelor's degree. Positions in these fields are also found at the local, state, and federal levels.

Certificate & Degree Program

Upon completion of the 15-credit Corrections, Probation, & Parole program, you may apply for a Corrections Officer Academic Certificate through the Business department.

Upon completion of the 61-credit hour Corrections, Probation, and Parole program, you may apply for an Associate in Applied Science Degree.

Transfer Options

The sample course sequence includes courses that may transfer only as elective credit. It is essential that you work with a counselor or academic advisor to develop an individualized program that meets the specific requirements of the College you plan to attend.

Sample Course Sequence

An advisor will help you make necessary changes to these recommended sequences.

Certificate Program

Semester 1	Semester 2
CORR 160	CORR 162
CORR 161	CORR 164
CORR 163	

Associate's Degree Program

Semester 1	Semester 2
ENGL 101	ENGL 102
COMM 101	SOC 101
CORR 160	CORR 162
CORR 161	CORR 264
OIS 102	CORR 164
Elective	

Semester 3	Semester 4
PSYC 201	POSC 101
SOC 201	LAWE 250
CORR 163	LAWE 251
Program Elective	LAWE 252
PHED 200	General Elective
MATH	

Dental Assisting

Certificate of Achievement - Dental Assisting Program Code 231

Associate Degree in Applied Science Program Code 230

Advisor: Student Services Academic Advising appointments (269) 927-8128

Program Prerequisites

See course description of specific course requirements. This program has special admission procedures and limited enrollment. Please see admission requirements for the Health Science program on page 15. An academic advisor will help determine your eligibility and recommend courses designed to prepare you for this program.

Challenge Examinations

The following pathways allow individuals to obtain a Certificate of Achievement in Dental Assisting from LMC. See the Dental Assisting advisor to determine which pathway is best for you. Pathway I is the traditional entry for any student.

Pathway II is available to dental assisting completers from high school career centers or other educational facilities that have articulation agreements with the LMC Dental Assisting program. Pathway III grants up to 33.5 advanced standing credits to current Certified Dental Assistants (CDAs). Pathway IV is available for non-credentialed working dental assistants. This pathway allows students to challenge each course, up to 27 credits, by successfully completing the final exam.

Degree Requirements Credit Hours

Dental Assisting core courses are the same for the certificate and associate's degree programs. The courses required for the associate's degree may be taken prior, during or after completion of the major courses.

College Requirements

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3

Support Courses

Biology 108, Basic Anatomy and Physiology, or Biology 205, Human Anatomy.....	4
Psychology 201, Introduction to Psychology.....	3
Communication 101, Introduction to Public Speaking.....	3
**Health 165, Standard First Aid and Personal Safety.....	2
**Health 166, CPR/AED.....	1
**Business Administration 150, Job Search Seminar.....	1
Psychology 204, Child Development and Personality, or Psychology 205, Interpersonal Relations, or Sociology 101, Principles of Sociology.....	3

Major

**Dental Assisting 165, Introduction to Dental Assisting.....	3
**Dental Assisting 166, Chairside I.....	3
**Dental Assisting 167, Chairside II.....	3
**Dental Assisting 168, Chairside III.....	3
**Dental Assisting 169, Chairside IV.....	3
**Dental Assisting 170, Introduction to Business Assisting.....	3
**Dental Assisting 171, Introduction to Dental Radiography.....	4
**Dental Assisting 172, Medical Issues in Dental Office.....	2
**Dental Assisting 173, Clinical I.....	6
**Dental Assisting 174, RDA I.....	3
**Dental Assisting 175, RDA II.....	3
**Dental Assisting 176, Clinical II.....	5

* Transferring students are encouraged to take PHED 212 or PHED 214.

** Classes required for Certificate program

Sample Course Sequence Certificate (Full-time)

Semester 1	Semester 2	Semester 3
*DENT 165	DENT 169	DENT 173
DENT 166	DENT 170	DENT 174
DENT 167	+DENT 171	DENT 175
DENT 168	DENT 172	DENT 176
**BUSA 150	HEAL 165	
	HEAL 166	

Certificate (Part-time)

Semester 1	Semester 2	Semester 3
*DENT 165	DENT 167	DENT 169
DENT 166	DENT 168	DENT 170
	**BUSA 150	

Semester 4	Semester 5	Semester 6
+DENT 171	DENT 174	DENT 173
DENT 172	DENT 175	DENT 176
HEAL 165		
HEAL 166		

Associate Degree Program (Full-time)

Semester 1	Semester 2	Semester 3
BIOL 108 or 205	**BUSA 150	COMM 101
*DENT 165	DENT 167	DENT 170
DENT 166	DENT 168	+DENT 171
ENGL 101	ENGL 102 or 103	POSC 101 or 102, or
PHED 200	DENT 169	HIST 201 or 202

Semester 4	Semester 5
DENT 172	DENT 173
DENT 174	DENT 176
DENT 175	SOCI Elective
HEAL 166	
HEAL 165	
PSYC 201	

Associate Degree (Part-time)

Semester 1	Semester 2	Semester 3
*DENT 165	DENT 166	DENT 167
BIOL 108 or 205	ENGL 101	ENGL 102 or 103

Semester 4	Semester 5	Semester 6
DENT 168	DENT 169	DENT 170
COMM 101	POSC 101 or 102, or	BUSA 150**
	HIST 201 or 202	

Semester 7	Semester 8	Semester 9
DENT 171	DENT 172	DENT 174
PSYC 201	SOCI elective	HEAL 166
		HEAL 165

Semester 10	Semester 11
DENT 173	DENT 176
DENT 175	PHED 200

* Transitional courses can be taken concurrently

** Course only offered during Fall/Winter semester

+ These courses to all employed Dental Assistants

Program Accreditation

The program in Dental Assisting is accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and by the U.S. Department of Education. The program is also accredited by the Michigan State Board of Dentistry.

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Dental Hygienist

1+2 with Kalamazoo Valley Community College

Associate in Applied Science (from KVCC) Program Code 232

Advisor: TBD

Program Prerequisites

To be eligible to take Lake Michigan College courses, you must demonstrate proficiency in reading, English and mathematics on the assessment or successfully complete recommended classes. Prerequisites to admission to KVCC: Reading ASSET score of 42, Math ASSET score of 37, asterisked (*) in classes listed below, Chemistry – 1 year of high school chemistry. You must have prerequisites completed to submit your application to KVCC Dental Hygiene program. Applications are accepted beginning September 1 for entry consideration for the following fall. Early applications will be returned.

Requirements

Credit Hours

College Requirements (taken at LMC)

* English 101, English Composition	3
English 102, English Composition, or Communication 100, Introduction to Public Speaking	3
* Biology 101, Biological Science (or equivalent)	4
* Biology 108, Basic Human Anatomy & Physiology	4
* Biology 210, Microbiology	4
* Chemistry 105, Fundamentals of Inorganic Chemistry	4
Hospitality 113, Nutrition and Diet Therapy	3
Political Science 101, National Government, or Political Science 102, State Governments	3
Psychology 201, Introduction to Psychology	3
Sociology 101, Principles of Sociology	3
Physical Education, Elective	2
Health 166, CPR/AED	1

Major Requirements (at KVCC)

See KVCC program information at kvcc.edu/careerguides/displayprograms

About the Area of Study

Lake Michigan College offers the first year of a three-year Associate in Applied Science degree in Dental Hygiene in cooperation with Kalamazoo Valley Community College (KVCC). The program is fully accredited by the American Dental Association. It will train you to provide specialized intraoral technical service and prevention-oriented educational services.

You may apply for admission at LMC and KVCC simultaneously .

As a dental hygienist, you are likely to work in a private dental office where you will clean patients' teeth and provide other preventive dental care. Other places of employment can include school programs and public health care service agencies.

Associate's Degree & Certification

Graduates receive an Associate in Applied Science degree from KVCC and are eligible to write the National Board Examination and Regional Board Examination for licensure. Upon successful completion of these exams, a graduate is registered and qualified to practice as a dental hygienist in Michigan and many other states, plus the District of Columbia.

Sample Course Sequence

An advisor will help you make necessary changes to this recommended sequence.

Program Prerequisites at LMC

Semester 1	Semester 2
*ENGL 101	ENGL 102
*BIOL 101	COMM 101
*CHEM 105	*BIOL 108
SOC 101	*BIOL 210
POSC 101 or 102	PSYC 201
HOSP 113	HEAL 166
	PHED Elective

Years 2 and 3

Taken at Kalamazoo Valley Community College

(*) Prerequisites classes must be taken before application is submitted.

Dentistry (Pre)

Associate in Science Degree - TRANSFER PROGRAM Program Code 081

Advisor: Dr. Susan Lentz, (269) 927-8100 ext. 5076, lentz@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Courses

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Mathematics 151, Calculus	5
Biology 111, Principles of Biology I.....	4
Biology 112, Principles of Biology II.....	4
Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II	4
Chemistry 203, Organic Chemistry I.....	4
Chemistry 204, Organic Chemistry II.....	4
Physics 101, General Physics I	5
Physics 102, General Physics II.....	5
Group II Social Science electives.....	6
Group III Humanities electives.....	9

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

University of Detroit
University of Michigan

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

You can complete the minimum requirements for admission to dentistry school at Lake Michigan College. Since the requirements vary among dental schools, you should become familiar with the specific ones for the dental school in which you are interested. Most dental schools prefer candidates with bachelor's degrees.

Sixty semester hours of the Pre-Dentistry program can be transferred to similar programs at Michigan colleges and universities. The Pre-Dentistry advisor will assist you in planning your individualized program.

A career in dentistry can lead to running your own practice as a general practitioner. However, you may wish to specialize in orthodontics, oral and maxillofacial surgery, pediatric dentistry, periodontics, prosthodontics, endodontics, public health dentistry, oral pathology, or oral and maxillofacial radiology. **There is a 61-credit degree requirement needed for graduation.**

Diagnostic Medical Sonography

Associate in Applied Science – Diagnostic Medical Sonography Program Code 225

Advisor: Elizabeth Zak, (269) 927-8100 ext. 5134, bzak@lakemichigancollege.edu
Student Services Academic Advising (269) 927-8128

Program Prerequisites

This program has special admission procedures based on a program specific GPA ranking and limited enrollment. A certain number of seats will be reserved for certified medical imaging professionals. See the specific admission requirements for Health Science students on page 15. Contact Student Services Academic Advising at ext. 8128 or the Health Science office at ext. 5090 for complete details. An academic advisor will help you determine prerequisites that are required and designed to prepare you for training in the program.

Prerequisite and Support Courses

Biology 101, Biological Science, or Biology 108, Basic Human Anatomy.....	4
Biology 205, Human Anatomy.....	4
Physical Science 101, Physical Science: Chemistry and Physics	4
Health 165, Standard First Aid.....	2
Health 166, CPR/AED.....	1
Psychology 201, Introduction to Psychology	3
Reading 110, Medical Terminology	1
Math 122, Intermediate Algebra	4

College Requirements

Credit Hours

English 101, English Composition	3
English 102, English Composition	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3

Major Requirements

Diagnostic Medical Sonography 100, Introduction to Diagnostic Medical Sonography.....	3
Diagnostic Medical Sonography 101, General Sonography I Abdomen.....	4
Diagnostic Medical Sonography 102, General Sonography I OB/GYN.....	4
Diagnostic Medical Sonography 103, Sonography Lab Applications I.....	3
Diagnostic Medical Sonography 104, Clinical Experience A.....	2
Diagnostic Medical Sonography 200, General Sonography II Abdomen.....	3
Diagnostic Medical Sonography 201, General Sonography II OB/GYN.....	3
Diagnostic Medical Sonography 202, Sonography Lab Applications II.....	2
Diagnostic Medical Sonography 203, Sonographic Physics I.....	3
Diagnostic Medical Sonography 204, Clinical Experience B.....	3
Diagnostic Medical Sonography 214, Clinical Experience C.....	5
Diagnostic Medical Sonography 224, Clinical Experience D.....	5
Diagnostic Medical Sonography 213, Sonographic Physics II.....	3
Diagnostic Medical Sonography 230, Introduction to Vascular Sonography & Lab Applications.....	4
Diagnostic Medical Sonography 234, Clinical Experience E.....	3

Elective

Diagnostic Medical Sonography 240, Sonographic Registry Review option	2
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Diagnostic Medical Sonography Program Handbook

In addition to the rules stated in this catalog, Ultrasound students are required to abide by the rules stated in the Diagnostic Medical Sonography Program Handbook.

About the Area of Study

The Diagnostic Medical Sonography program trains you to become a diagnostic medical sonographer. This 18-month program includes one spring semester and two summer semesters of course work. You will obtain clinical experience at local healthcare facilities in addition to formal classroom instruction provided on campus.

Diagnostic medical sonographers are employed in hospitals, clinics, commercial x-ray laboratories and physician offices where they use sophisticated imaging equipment that is dependent upon sound wave technology. In addition to preparing patients and operating equipment, diagnostic medical sonographers also work with radiologists, referring physicians and hospital management to assure quality patient care and diagnosis.

Diagnostic medical sonographers also serve in capacities such as departmental managers, technical advisors and applications specialists, sales and service for Ultrasound equipment manufacturers, and as educators.

Program Accreditation

The program is in the process of obtaining accreditation. Non-medical imaging professionals need to see the program advisor for more details.

Associate's Degree

Upon completion of the 78.5-credit Diagnostic Medical Sonography program, graduates may apply for an Associate in Applied Science degree.

Certification Examination

Qualified graduates are eligible to sit for the ARDMS or ARRT ultrasound credentialing exam.

Sample Course Sequence

An advisor will help you make necessary changes to this recommended sequence.

Associate Degree Program

Semester 1	Semester 2	Semester 3
DMSO 100	ENGL 101	ENGL 102
PHED 200	DMSO 101	DMSO 200
	MRIT 102	DMSO 201
	MRIT 103	DMSO 202
	MRIT 104	DMSO 203
		DMSO 204

Semester 4	Semester 5	Semester 6
DMSO 214	DMSO 224	DMSO 213
POSC 101 or 102 or HIST 201 or 202		DMSO 230
		DMSO 234
		DMSO 240

Drafting & Design

Certificate of Achievement - Drafting & Design Program Code 322

Associate in Industrial Technology Degree Program Code 320

Level I Certificate - Drafting & Design Program Code 324

Advisor: Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree Requirements

Credit Hours

College Requirements

* English 101, English Composition	3
* English 102, English Composition, or English 103, Technical Writing	3
** Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3

Support Courses

* Mathematics 100, Applied Math	4
* Mathematics 110, Technical Math I	4
* Physics 110, Technical Physics	4

Major

*** Engineering 103, Beginning Engineering Drawing	4
***/* Drafting & Design 102, Machine Drawing	3
Drafting & Design 201, Tool Design I	4
Drafting & Design 202, Tool Design II	3
* Drafting & Design 203, Descriptive Geometry	3
*** Drafting & Design 207, CAD-Mechanical Design	3
*** Drafting & Design 208, CAD-Mechanical Detailing	3
Drafting & Design 211, Machine Design	3
* Machine Tool 110, Machine Tool I	3
* Machine Tool 220, Pressworking of Metals	3
* Manufacturing 111, Manufacturing Processes I	3

Electives (Select 5 credit hours for associate degree)

Manufacturing 120, Fundamentals of Programmable Controllers	2
Manufacturing 122, Introduction to Robotics	1
Industrial Maintenance Technology 204, Basic Hydraulics & Pneumatics	2
Industrial Maintenance Tech 206, Hydraulic and Pneumatic Circuitry	2
Machine Tool 140, Intro to NC/CNC	2
Drafting & Design 205, Architectural Drawing	4

* Classes required for Certificate program

** Transferring students are encouraged to take PHED 212 or PHED 214.

*** Classes required for Level I Certificate program

This program articulates with the Occupational Education Studies (OES) program at Western Michigan University to prepare certified vocational teachers for high schools, technical centers and community colleges. If you think you might be interested in teaching, please discuss the OES program with your advisor. You can learn more about the OES program by visiting www.wmich.edu/gus/occupnedn.html

About the Area of Study

The Drafting & Design program will train you to be a draftsman or a designer in the manufacturing industry. The industrial focus of the program provides you with training in product drafting, jig and fixture design, and computer-aided drafting and design. You will learn to prepare technical drawings and plans used in production work to build manufactured products and machinery.

Certificate and Degree Options

The 38-credit Drafting & Design certificate program prepares you to work as a helper for engineers and designers in preparing blueprints, tracings, and inking of master. Credits can be applied to the associate's degree program.

The 62-credit Associate in Industrial Technology degree in Drafting & Design will qualify you to work directly with a design engineer on conceptual product design and layout.

Level I Certificate Option

Upon completion of the listed program, you will earn a Level I Certificate of Completion. This Level I certificate is a pathway into the Associate in Industrial Technology degree in Drafting and Design and General Technology. It is also a pathway into the Skilled Trades Technology associate degree (must be a registered apprentice with the Department of Labor.)

Transfer Options

The Drafting and Design associate's degree transfers to Ferris State University's Manufacturing Engineering Technology and Product Design Engineering Technology programs. See your advisor for more details.

Sample Course Sequence

An advisor will help you make necessary changes to these recommended sequences.

Certificate Program

Semester 1	Semester 2
ENGR 103	DRAF 203
MANU 111	DRAF 201
MACH 110	MATH 110
MATH 100	PHYS 110
ENGL 101	ENGL 103

Associate's Degree Program

Semester 1	Semester 2	Semester 3	Semester 4
ENGR 103	DRAF 203	DRAF 201	DRAF 202
MACH 110	MANU 111	DRAF 207	DRAF 208
MATH 100	MATH 110	POSC 101 or	DRAF 211
ENGL 101	ENGL 103	POSC 102 or	MACH 220
	DRAF 102	HIST 201 or	PHYS 110
		HIST 202	Electives
		PHED 200	
		Electives	

Early Childhood Education

Certificate of Achievement - Early Childhood Education Program Code 271

Associate in Applied Science Degree Program Code 270

Advisor: Dr. Delores Jackson, (269) 927-8100 ext. 5092, jacksond@lakemichigancollege.edu
Student Services Academic Advising (269) 927-8128

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific prerequisites.

Degree Requirements

Credit Hours

College Requirements

** English 101, English Composition	3
English 102, English Composition, or English 103, Technical Writing	3
History 201, American History to 1865, or History 202, American History 1865 to Present, or Political Science 101, National Government, or Political Science 102, State Governments	3
**/* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3

Support Courses

Group Ia or Ib elective (see page 30 for choices)	4
** Mathematics 122, Intermediate Algebra	4
** Psychology 201, Introduction to Psychology	3
** Psychology 203, Human Development	3
Group III Humanities (see page 30 for choices)	9
** Art 111, Art Education	3
** Computer Information Systems 100, Introduction to Computer Literacy	3

Major

** Early Childhood 110, Introduction to Early Childhood Education	3
** Early Childhood 111, Early Childhood Learning Environment	2
** Early Childhood 112, Curriculum Planning For Young Children	3
** Early Childhood 113, Guiding Young Children's Social Development	3
Early Childhood 210, Curriculum Planning For Young Children II	3
Early Childhood 211, Diversity in Early Childhood Education	3
Early Childhood 212, Administration of Early Childhood Programs	3
Early Childhood 213, Current Issues in Early Childhood Education	3

* Transferring students are encouraged to take PHED 212 or PHED 214.

**** Classes required for Certificate program**

This program does not lead to certification in Elementary Education

About the Program

Lake Michigan College offers individuals interested in working with young children an opportunity to acquire the knowledge and skills to work effectively in child care settings and prepare for the Childhood Development Associate (CDA) credential awarded through the Council for Early Childhood Professional Recognition. Early Childhood Education (ELCH) classes teach students to become caregivers who can work with children (infants through primary school-age) in home day care, child care centers, and public educational facilities.

Individuals who learn to implement developmentally appropriate programs can offer high-quality, professional child care. These caregivers meet the specific needs of diverse groups of children and work together with parents and other adults to nurture children's physical, social, emotional, intellectual, language, and aesthetic growth.

Sample Program Sequences

Certificate Program

Semester 1	Semester 2
CIS 100	ART 111
ENGL 101	ELCH 112
ELCH 110	ELCH 113
CLCH 111	MATH 101
PSYC 201	PSYC 203
PHED 200	

Associate Degree Program

Semester 1	Semester 2	Semester 3
CIS 100	ART 111	ELCH 210
ENGL 101	ELCH 112	ELCH 211
ELCH 110	ELCH 113	ENGL 102 or ENGL 103
ELCH 111	MATH 122	Humanities – 3 cr.
PSYC 201	PSYC 203	Science – 4 cr.
PHED 200		

Semester 4

ELCH 212
ELCH 213
HIST 201 or 202, or
POSC 201 or 102
Humanities – 6 cr.

Education - Elementary

Associate in Arts Degree - TRANSFER PROGRAM Program Code 037

Sample Transfer Program

Courses vary at each university or college elementary education program. It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend. The Elementary Education major requires students to identify the school they wish to transfer to by the end of their first full time year at the community college. Students must work closely with an faculty or academic advisor at the beginning of their LMC coursework.

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Colleges of Education:

Andrews University	www.educ.andrews.edu
Central Michigan University	www.ehs.cmich.edu
Eastern Michigan University	www.emich.edu/coe
Ferris State University	www.ferris.edu
Grand Valley State University	www.gvsu.edu/soe
Indiana University South Bend	www.iusb.edu/edud
Michigan State University	www.edu.msu.edu.te
Northern Michigan University	www.nmu.edu/education
University of Michigan	www.soe.umich.edu
Western Michigan University	www.wmich.edu/edadv
Western Michigan University-Southwest	

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

Education is recommended if you would like to teach in an elementary school or if you are interested in becoming a teacher's aid. Elementary school teachers are the first crucial link between students and their formal education. Teachers create an appropriate student learning environment and then evaluate the effectiveness of that learning. **There is a 61-credit degree requirement needed for graduation.**

College Requirements

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing.....	3
History 201, American History to 1865, or History 202, American History 1865 to Present, or Political Science 101, National Government, or Political Science 102, State Governments.....	3
Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3

Support Courses

Group Ia elective.....	4
Group Ib elective.....	4
Group Ic elective.....	3, 4, or 5
Group II elective.....	6
Group III elective.....	9

Electives

General Electives.....	24/25
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Education – Elementary

Associate in Applied Science Degree -

Elementary Education WMU Southwest Program Code 276

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. In addition, proficiency in Intermediate Algebra. See course descriptions for specific prerequisites.

College Requirement

Credit Hours

ENGL 101, English Composition	3
ENGL 102, English Composition	3
POSC 101, National Government	3
Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	3

Support Courses

HIST 201, American History to 1865, or HIST 202, American History 1865 to Present	3
PSYC 201, Introduction to Psychology	3
PSYC 203, Human Development, or PSYC 204, Child Development and Personality	3
DRAM 201, Introduction to Theatre, or HUMN 201, Into to the Arts	3

Major

Elementary Education Program Requirements:

BIOL 170, Life Science for Elementary Teachers I	3
PHSC 180, Physical Science for Elementary Teachers I	3
PHSC 190, Earth Science for Elementary Teachers I	3
Select two of the following courses: BIOL 270, Life Science for Elementary Teachers II PHSC 280, Physical Science for Elementary Teachers II PHSC 290, Earth Science for Elementary Teachers II	6
MATH 200, Math for Elementary Teachers	4
MATH 210, Geometry for Elementary Teachers	4
MATH 265, Probability and Statistics for Middle School Teachers	4
ART 111, Art Education or MUSI 200, Music for the Elementary Teacher	3
HIST 204, Modern East Asia	3

Minor Electives - Select four credit hours within major

Science Minor

CHEM 111, General Chemistry I	4
PHYS 104, Introduction to Sky and Solar System	4
Select one course not taken above: BIOL 270, Life Science for Elementary Teachers II, or PHSC 280, Physical Science for Elementary Teachers II, or PHSC 290, Earth Science for Elementary Teachers II	3

Elementary Language Arts

ENGL 208, Literary Interpretation, or ENG 215, Poetry, or ENG 216, Literature of Black America	3
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Social Studies

GEOG 101, World Regional Geography	4
Select one course not taken above: HIST 201, American History to 1865, or HIST 202, American History 1865 to Present	3

About the Program

Lake Michigan College and Western Michigan University have formed a partnership that allows you to earn an Associate in Applied Science from LMC and a Bachelor of Science Degree in Elementary Education on the LMC campus. Freshman and sophomore level courses are offered by LMC. Junior and senior level courses are taught at Western Michigan University-Southwest, on the Napier Avenue Campus.

Transfer Options

This program is highly specialized to meet transfer requirement at WMU Southwest campus ONLY. It does not transfer to Elementary Education requirements at other universities. If you plan to pursue Elementary Education at a campus other than WMU Southwest, you need to work with an LMC advisor during your first semester to build the program that will meet your transfer needs.

There is a 61 credit degree requirement needed for graduation.

Admission Requirement to WMU Elementary Education Program

- 35 credit hours with a 2.5 GPA or better
- Completion of PSYC 203 or 204 with a "C" or better (You must take PSYC 201 first)
- Successful completion of the Michigan Test for Teacher Certification
- Apply to Western Michigan University one year in advance and be admitted
- Apply to the WMU College of Education and be admitted

LMC Courses

Students must meet with an LMC advisor to develop their plan of study before their first semester.

Education - Secondary

Associate in Arts Degree - TRANSFER PROGRAM Program Code 038

Associate in Science Degree - TRANSFER PROGRAM

Sample Transfer Program

Meeting the degree requirements for the Associate in Arts or Associate in Science degree is the most typical curriculum if you are planning to transfer to a secondary education program at a four-year college or university. **It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend.**

Transfer Opportunities

Courses vary at each university or college elementary education program. It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend. The Education major requires students to identify the school they wish to transfer to by the end of their first full time year at the community college. Students must work closely with a faculty or Secondary academic advisor at the beginning of their LMC coursework.

About the Area of Study

Lake Michigan College faculty and advisors provide guidance in planning the selection of elective courses to meet your individualized need. Advisors have information about course prerequisites and diagnostic testing.

Career Opportunities

As a secondary school teacher, you can work in high schools or community colleges and specialize in a specific subject, such as English, Spanish, mathematics, history, or biology. You also can teach subjects that are career-oriented, such as health care, business, auto repair, communications, and technology. **There is a 61-credit degree requirement needed for graduation.**

Energy Production Technology/Chemistry

Associate in Industrial Technology Degree Program Code 370

Advisors: David Blumberg, (269) 926-2124, blumberg@lakemichigancollege.edu
Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course requirements.

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition.....	3
English 103, Technical Writing, or English 102, English Composition.....	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
** Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3

Support Courses

Mathematics 122, Intermediate Algebra	4
Mathematics 128, Pre-Calculus Algebra	4
Physics 110, Technical Physics.....	4
Chemistry 101, Introductory Chemistry	4
Humanities credit	3

Major

Energy Production Technology 116, Chem and RP Fundamentals	3
Energy Production Technology 200, Reactor Plant Materials	3
*Energy Production Technology 205, Energy/Power Field Experience.....	2
Energy Production Technology 210, Radiation Detection and Protection Fund	3
Energy Production Technology 225, Reactor Theory, Safety and Design.....	3
Energy Production Technology 230, Heat Transfer and Fluid Flow	3
Energy Production Technology 235, Power Plant Components.....	3

Concentration Major

Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II	4

Electives (select minimum of 4 credits)

Trade Related/Apprentice 138, Industrial Safety	1
Energy Production Technology 100, Nuclear Industry Fundamental Concepts.....	3
Energy Production Technology 111, Intro. to Energy Production and Distribution	3
Energy Production Technology 120, Power Plant Drawings	3

* All field experience must be scheduled through an advisor.

** Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

A solid knowledge of science and math, strong communication skills, the ability to problem solve and attention to detail are critical to being successful in the energy production field. After completion of the associate's degree program at LMC, those who enter the field should expect a career that will involve on-going, extensive on-the-job training. In fact, local nuclear plants can often invest up to \$2 million per employee in training during an entire career.

Certificate and Degree Options

When you complete the 61-credit Energy Production Technology program, you may apply for an Associate in Industrial Technology degree in Energy Production Technology.

Transfer Option

The Energy Production Technology associate's degree program transfers to Siena Heights Nuclear Technology program. See your advisor for more information.

Sample Course Sequence

An advisor will help you develop course program sequences.

Energy Production Technology/Crafts

Associate in Industrial Technology Degree Program Code 371

Advisors: David Blumberg, (269) 926-2124, blumberg@lakemichigancollege.edu
Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course requirements.

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition.....	3
English 103, Technical Writing.....	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
** Physical Education 200, Healthful Living or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3

Support Courses

Mathematics 122, Intermediate Algebra.....	4
Mathematics 128, Pre-calculus Algebra.....	4
Physics 110, Technical Physics.....	4
Chemistry 101, Introductory Chemistry.....	4
Group III Humanities (Not included: COMM 101, FORL 123, FORL 124) or BUSA 220 ..	3

Major Courses

Energy Production Technology 100, Energy Industry Fundamentals Concepts.....	3
Energy Production Technology 116, Chem and RP fundamentals.....	3
Energy Production Technology 200, Power Plant Materials.....	3
* Energy Production Technology 205, Energy/Power Field Experience.....	2
Energy Production Technology 225, Reactor Theory, Safety and Design.....	3
Energy Production Technology 230, Thermo Fluid Science.....	3
Energy Production Technology 235, Power Plant Components.....	3
Energy Production Technology 240, Capstone and Case Studies.....	2
Trade Related Instruction 138, Industrial Safety.....	1

Crafts Mechanical Concentration

Energy Production Technology 250, General Maintenance Systems & Components	3
Industrial Maintenance 240, Predictive and Preventive Maintenance	3

Electives (Select 5 credit hours)

Electronics 100, DC Electricity (for Electrical and I & C students).....	4
Electronics 106, AC Electricity (for Electrical and I & C students).....	3
Energy Production Technology 120, Power Plant Drawings.....	3
Industrial Maintenance 109, Intro to Welding.....	2
Industrial Maintenance 204, Basic Hydraulics and Pneumatics.....	2
Industrial Maintenance 205, Hydraulics and Pneumatics Maintenance.....	2
Machine Tool Technology 110, Machine Tool I.....	3
Machine Tool Technology 129, Use of Machinery's Handbook.....	2
Trade Related Instruction 156, Industrial Rigging.....	2

* All field experience must be scheduled through an advisor.

** Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

A solid knowledge of science and math, strong communication skills, the ability to problem solve and attention to detail are critical to being successful in the energy production field. After completion of the associate's degree program at LMC, those who enter the field should expect a career that will involve on-going, extensive on-the-job training. In fact, local nuclear plants can often invest up to \$2 million per employee in training during an entire career.

Associates Degree

When you complete the 61/62 credit Energy Production Technology program, you may apply for an Associate in Industrial Technology degree.

Transfer Option

The Energy Production Technology associate's degree program transfers to Siena Heights Nuclear Technology program. See your advisor for more information.

Sample Course Sequence

An advisor will help you develop course program sequences.

Energy Production/Fossil Fuels

Associate in Industrial Technology Degree Program Code 374

Advisors: David Blumberg, (269) 926-2124, blumberg@lakemichigancollege.edu
Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course requirements.

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition	3
English 102, English Composition, or English 103 Report Writing	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
** Physical Education 200, Healthful Living or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3

Outcomes Assessment Test must be completed prior to graduation

Support courses

Mathematics 122, Intermediate Algebra	4
Mathematics 128, Pre-calculus Algebra, or Mathematics 130, Pre-calculus Trigonometry	4
Physics 110, Technical Physics	4
Chemistry 101, Introductory Chemistry, or Chemistry 105, Inorganic Chemistry	4
Business Administration 220, Organizational Behavior, or Group III Humanities (Not including: COMM101, FORL123, FORL124, or BUSA220)	3

Major Courses

Energy Production Technology 100, Energy Industry Fundamentals Concepts .	3
Energy Production Technology 116, Chem and RP fundamentals	3
Energy Production Technology 200, Power Plant Materials	3
* Energy Production Technology 205, Energy/Power Field Experience	2
Energy Production Technology 230, Thermo Fluid Science.....	3
Energy Production Technology 235, Power Plant Components	3
Energy Production Technology 240, Capstone and Case Studies.....	2
Trade Related Instruction 138, Industrial Safety	1

Concentration Major

Energy Production Technology 182, Boiler Theory, Safety, and Design.....	3
Energy Production Technology 184, Fossil Fuel Cycle.....	3
Energy Production Technology 270, Mechanical Operations.....	3
Energy Production Technology 274, Electrical and HVAC Operation.....	3
Energy Production Technology 278, Operation of Power Plant Components....	3

Electives (may be suggested but are not required)

Energy Production Technology 111, Intro to Energy Production Distribution.....	3
Energy Production Technology 120, Power Plant Drawings	3
Energy Production Technology 210, Radiation Detection and Protection.....	3

*All field experience must be scheduled through an advisor.

** Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

A solid knowledge of science and math, strong communication skills, the ability to problem solve, and attention to detail are critical to being successful in the energy production field.

After completion of the associate degree program at LMC, those who enter the field should expect a career that will involve on-going, extensive on-the-job training. In fact, local nuclear plants can often invest up to \$2 million per employee in training during an entire career.

Certificate and Degree Options

When you complete the 64/66 credit Energy Production Technology program, you may apply for an Associate in Industrial Technology degree.

Transfer Option

The Energy Production Technology associate's degree program transfers to Siena Heights Nuclear Technology program. See your advisor for more information.

Energy Production Technology/HPRP

Associate in Industrial Technology Degree Program Code 372

Advisors: David Blumberg, (269) 926-2124, blumberg@lakemichigancollege.edu
Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course requirements.

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition.....	3
English 103, Technical Writing.....	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
**Physical Education 200, Healthful Living or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3

Support courses

Mathematics 122, Intermediate Algebra.....	4
Mathematics 128, Pre-calculus Algebra.....	4
Physics 110, Technical Physics.....	4
Chemistry 101, Introductory Chemistry.....	4
Business Administration 220, Organizational Behavior, or Group III Humanities (Not including: COMM 101, FORL 123, FORL 124).....	3

Major Courses

Energy Production Technology 100, Energy Industry Fundamentals Concepts.....	3
Energy Production Technology 200, Power Plant Materials.....	3
*Energy Production Technology 205, Energy/Power Field Experience.....	2
Energy Production Technology 210, Radiation Detection and Protection.....	3
Energy Production Technology 225, Reactor Theory, Safety and Design.....	3
Energy Production Technology 230, Thermo Fluid Science.....	3
Energy Production Technology 235, Power Plant Components.....	3
Energy Production Technology 253, Radiation Protection Capstone.....	3
Trade Related Instruction 138, Industrial Safety.....	1

Health Physics Radiation Protection Concentration

Energy Production Technology 223, Radiation Monitoring.....	3
Energy Production Technology 233, Dosimetry.....	3
Energy Production Technology 243, Radiation Materials and Control.....	3
Energy Production Technology 249, Safety Response.....	3

Electives (may be suggested but are not required)

Energy Production Technology 111, Intro to Energy Production Distribution.....	3
Energy Production Technology 116, Chem and RP Fundamentals.....	3
Energy Production Technology 120, Power Plant Drawings.....	3

*All field experience must be scheduled through an advisor.

**Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

A solid knowledge of science and math, strong communication skills, the ability to problem solve, and attention to detail are critical to being successful in the energy production field. After completion of the associate's degree program at LMC, those who enter the field should expect a career that will involve on-going, extensive on-the-job training. In fact, local nuclear plants can often invest up to \$2 million per employee in training during an entire career.

Associates Degree

When you complete the 65/67 credit Energy Production Technology program, you may apply for an Associate in Industrial Technology degree.

Transfer Option

The Energy Production Technology associate's degree program transfers to Siena Heights Nuclear Technology program. See your advisor for more information.

Sample Course Sequence

An advisor will help you develop course program sequences.

Energy Production Technology/Power Plant

Associate in Industrial Technology Degree Program Code 373

Advisors: David Blumberg, (269) 926-2124, blumberg@lakemichigancollege.edu
Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course requirements.

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition.....	3
English 103, Technical Writing.....	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
**Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3

Support courses

Mathematics 122, Intermediate Algebra.....	4
Mathematics 128, Pre-calculus Algebra.....	4
Physics 110, Technical Physics.....	4
Chemistry 101, Introductory Chem.....	4
Group III Humanities (Not including: COMM 101, FORL 123, FORL 124) or BUSA 220 ...	3

Major Courses

Energy Production Technology 100, Energy Industry Fundamentals Concepts.....	3
Energy Production Technology 116, Chem and RP fundamentals.....	3
Energy Production Technology 200, Power Plant Materials.....	3
*Energy Production Technology 205, Energy/Power Field Experience.....	2
Energy Production Technology 225, Reactor Theory, Safety and Design.....	3
Energy Production Technology 230, Thermo Fluid Science.....	3
Energy Production Technology 235, Power Plant Components.....	3
Energy Production Technology 240, Capstone and Case Studies.....	2
Trade Related Instruction 138, Industrial Safety.....	1

Power Plant Operation Concentration

Energy Production Technology 270, Mechanical Operations.....	3
Energy Production Technology 274, Electrical and HVAC Operations.....	3
Energy Production Technology 278, Operation of Power Plant Components.....	3

Electives (may be suggested but are not required)

Energy Production Technology 120, Power Plant Drawings.....	3
Energy Production Technology 210, Radiation Detection and Protection.....	3
Energy Production Technology 111, Intro to Energy Production Distribution.....	3

* All field experience must be scheduled through an advisor.

** Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

A solid knowledge of science and math, strong communication skills, the ability to problem solve, and attention to detail are critical to being successful in the energy production field. After completion of the associate's degree program at LMC, those who enter the field should expect a career that will involve on-going, extensive on-the-job training. In fact, local nuclear plants can often invest up to \$2 million per employee in training during an entire career.

Certificate and Degree Options

When you complete the 61 credit Energy Production Technology program, you may apply for an Associate in Industrial Technology degree.

Transfer Option

The Energy Production Technology associate's degree program transfers to Siena Heights Nuclear Technology program. See your advisor for more information.

Sample Course Sequence

An advisor will help you develop course program sequences.

Engineering (Pre)

Associate in Science Degree - TRANSFER PROGRAM Program Code 082

Advisor: Mike Durren, (269) 927-8100 ext. 5012, durren@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Mathematics 151, Calculus I	5
Mathematics 201, Calculus II	5
Mathematics 202, Calculus III	5
Mathematics 252, Differential Equations	3
Physics 201, Engineering Physics I.....	5
Physics 202, Engineering Physics II.....	5
Group II Social Science electives.....	6
Group III Humanities electives	9
General Electives.....	8

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Grand Valley State University
Michigan State University
Michigan Technological University
University of Michigan

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

*Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

If you study Engineering with the goal of transferring to a senior college for the bachelor's degree, you will find that the curriculum is intensively mathematical and has challenging performance requirements.

This transferable program includes the requirements of the University of Michigan and most Michigan colleges of engineering. Since differences in required curricula among some of the colleges are increasing, you should consult with the four-year college or university of your choice as well as your faculty advisor. **There is a 61-credit degree requirement needed for graduation.**

English

Associate in Arts Degree - TRANSFER PROGRAM Program Code 041

Advisor: Joseph Eklund, (269) 927-8100 ext. 5174, eklund@lakemichigancollege.edu
Charlie Jordan, (269) 927-8100 ext. 5184, jordan@lakemichigancollege.edu
Stephen Jukuri, (269) 927-8100 ext. 5185, sjukuri@lakemichigancollege.edu
Jenny Schanker, (269) 927-8100 ext. 5183, schanker@lakemichigancollege.edu
Janice Zerfas, (269) 927-8100 ext. 5182, zerfas@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Governments, or Political Science 102, State Government, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Social Science, Group II Elective.....	6
Humanities, Group III Elective.....	9
Group Ia elective.....	4
Group Ib elective.....	4
Group Ic elective.....	3 / 4

English Electives

English 201, Gender Studies.....	3
English 205, An Introduction to Shakespeare.....	3
English 206, Modern Drama.....	3
English 211, United States Literature II.....	3
English 214, Children's Literature.....	3
English 215, Poetry.....	3
English 216, Literature of Black America.....	3
English 217, Creative Writing.....	3
English 220, Contemporary Fiction.....	3

*Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

If you are planning to transfer to a four-year college, you should become familiar with your chosen school's requirements. See your advisor for assistance in planning your individualized program of study.

About the Area of Study

Students pursuing a bachelor's degree in English will be able to complete their first two years of college with courses at Lake Michigan College. All courses in English and other recommended courses are transferable to other institutions in Michigan and elsewhere.

Environmental Science

Associate in Science Degree - TRANSFER PROGRAM Program Code 066

Advisor: Robert Schodorf, (269) 927-8100 ext. 5075, schodorf@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Courses

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Mathematics 151, Calculus I	5
Biology 111, Principles of Biology I.....	4
Biology 112, Principles of Biology II.....	4
Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II	4
Chemistry 203, Organic Chemistry I (elective).....	4
Physics 101, General Physics I	5
Physics 102, General Physics II.....	5
Group II Social Science electives.....	6
Group III Humanities electives	9
General Elective	1 or 2

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following university to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Lake Superior State University

If you are interested in attending a school not listed here, please work with a counselor or academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

Environmental Science is the study of physical, chemical, and biotic factors that act upon an organism or ecological community and determine its form and survival. A wide variety of courses in the sciences, humanities, and social sciences are available.

If you have selected the four-year college or university to which you plan to transfer, you should consult with the Environmental Science advisor to develop an individualized program that will be accepted by your transfer school.

Fire Science

1+2 with Kalamazoo Valley Community College Program Code 245
 Certificate from KVCC

Advisor: TBD

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course requirements. Firefighter II certification is a prerequisite for FISC 110 through 212.

Degree and Certificate Requirements Credit Hours

General Education Courses

Business Administration 220, Organizational Behavior	3
*Chemistry 101, Introductory Chemistry I.....	4
*English 101, English Composition	3
English 103, Technical Writing	3
*Physical Education 216, Health Issues - Stress Management.....	2
Political Science 101, National Government, or Political Science 102, State Governments	3
Psychology 201, Introduction to Psychology, or Sociology 101, Principles of Sociology.....	3
Mathematics Elective 100, or above	4
Computer Information Systems 108, Microcomputing.....	3

Fire Science Major

*Fire Science 102, Firefighter II (See Prerequisites).....	12
Fire Science 110, Fire Prevention.....	3
Fire Science 111, Building Construction	3
Fire Science 112, Fire Service Tactics	3
Fire Science 210, Fire Cause Determination	3
Fire Science 211, Industrial Techniques	3
Fire Science 212, Incident Management.....	3
*Emergency Medical Technician 162, Basic Emergency Medical Technician	9

*Indicates classes needed for certificate

Fire Science Consortium

Contact advisor.

About the Area of Study

The Fire Science program is designed to prepare the already certified firefighter for career advancement opportunities. The courses are focused on the roles and responsibilities of today's municipal firefighters and fire officers.

Sample Course Sequence

An advisor will help you make necessary changes to these recommended sequences.

Certificate Program

Semester 1	Semester 2
ENGL 101	CHEM 101
FIRE 102	EMT 162
PHED 216	

Associate's Degree Program

Semester 1	Semester 2
ENGL 101	ENGL 103
PSYC 201	SOS 101
BUSA 211	CHEM 101
FIRE 1012	FIRE 110
PHED 216	FIRE 111

Semester 3	Semester 4
POSC 101	POSC 102
MATH Elective	CIS 108
FIRE 112	FIRE 212
FIRE 210	EMT 162
FIRE 211	

Foreign Language

Associate in Arts Degree - TRANSFER PROGRAM Program Code 042

Advisor: Dr. Denise Scameheorn, (269) 927-8100 ext. 5017 scameheorn@lakemichigancollege.edu

Sample Transfer Program

It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend.

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Group Ia elective.....	4
Group Ib elective.....	4
Group Ic elective.....	3, 4, or 5
Group II Social Science electives.....	6
Group III Humanities electives.....	9
Foreign Language classes + General electives.....	24/25

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

If you are planning to transfer to a four-year college, you should become familiar with the entire four-year program. You should see your advisor for assistance and approval. If you intend to transfer to a professional school or liberal arts college that does require competency in a foreign language as part of their general education, you should become familiar with the specific requirements of that school.

Generally, foreign language competency is equivalent to two years of college study. Michigan State University, Western Michigan University, The University of Michigan, and Lake Superior State University currently require one college year or two high school years of a foreign language. Consult your faculty advisor for specific guidance. **There is a 61-credit degree requirement needed for graduation.**

About the Area of Study

This program will help you succeed if you plan to use a foreign language as a primary skill in teaching, interpreting, translating, or business. The courses broaden your background knowledge and awareness of the world and its interdependent people. You are strongly urged to gain a good understanding of the cultural heritage of the foreign language you study.

Wider employment opportunities are available if you combine knowledge of a foreign language with professional programs like business administration, journalism, travel, tourism, hospitality, and education. Courses in French and Spanish are offered in regular classroom instruction format. Courses in Arabic, Mandarin Chinese, Italian, Japanese, Polish, and Russian are offered in the Self-Instructional Language program format.

Forensics (Pre)

Associate in Science Degree – Transfer Program Program Code 057

Advisor: Dr. Susan Lentz, (269) 927-8100 ext. 5076, lentz@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. It is essential that you work with an LMC academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Governments, or Political Science 102, State Government, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Mathematics 151, Calculus I.....	5
Mathematics 201, Calculus II.....	5
Biology 111, Principles of Biology I.....	4
Biology 112, Principles of Biology II.....	4
Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II.....	4
Chemistry 203, Organic Chemistry I.....	4
Chemistry 204, Organic Chemistry II.....	4
Physics 101, General Physics I.....	5
Physics 102, General Physics II.....	5
Law Enforcement 140, Intro to Criminal Justice.....	3
Group II Social Science electives.....	6
Group III Humanities elective.....	9

*Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

Forensic science is typically not an entry level field. A student completes a four-year degree majoring in biology, biochemistry, or chemistry with a minor in criminal justice and is employed as a police officer. After a minimum of 2-5 years as a police officer, application for transfer to a forensics position can be made within the department/division. While civilian positions do exist, they are not common. Since minimum admission requirements vary among schools with forensics programs, you should work with the pre-forensics advisor to become familiar with the forensics program in which you are interested. The pre-forensics advisor will assist you in planning your program. There is a 61-credit degree requirement needed for graduation.

Transfer Opportunities

If you are planning to transfer to a four-year college, you should become familiar with your chosen school's requirements. See your advisor for assistance in planning your individualized program of study.

Bachelor's degrees with a major in forensics are offered at Michigan State University (Forensic Anthropology, Forensic Biology and Forensic Chemistry) and Northern Michigan University (Forensic Biochemistry), and a forensic minor is offered at Ferris State University. Master's degrees in forensics are offered at Michigan State University through their School of Criminal Justice (Forensic Anthropology, Forensic Biology, and Forensic Chemistry).

General Studies

Associate in General Studies - TRANSFER PROGRAM Program Code 005

Advisor: Student Services Academic Advising Appointments, (269) 927-8128

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Sample Program:

The following is a suggested program for the Associate in General Studies degree. Because this degree is extremely flexible, it is essential that you work with an advisor to develop an individualized program that meets your specific needs.

College Requirements

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or	3
History 201, American History to 1865, or History 202, American History 1865 to Present	3

Support Courses

Science Elective (Group I a or b).....	3-4
Mathematics Elective (Group Ic).....	3-4
Humanities, Group III Elective.....	3-4

Electives

College Life Studies 100, Freshman Seminar (recommended for first semester)	1
General Electives.....	34-41

Major Requirements

Computer Information Systems 100, Intro to Computer Literacy, or Computer Information Systems 102, Basic Computer Literacy.....	3 or 1
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*Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

The Associate in General Studies degree is an appropriate degree for students who have taken or plan to take courses in diverse areas of the college without designating a major area of study. The Associate in General Studies meets all general education requirements at Lake Michigan College. Please work with an academic advisor as you plan your program.

Transfer Opportunities

The Associate in General Studies degree can be customized to meet MACRAO and other transfer requirements. If you have selected the four-year college or university to which you plan to transfer, you should consult with an academic advisor to develop an individualized program that will be accepted by your transfer school.

General Technology

Associate in Industrial Technology Degree Program Code 340

Advisor: Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3

Support Courses

Mathematics 100, Applied Mathematics	4
Mathematics 110, Technical Mathematics I	4
Physics 110, Technical Physics	4
Business Administration 103, Introduction to Business	3

Major Courses

At least 36 hours of credit courses from the industrial technology and business areas are required. These courses should be part of a planned program of study as designed by the advisor to meet your interests and your employer's needs.

*Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

The Associate Degree in General Technology provides you with a broad general knowledge of technological areas applicable to the industrial setting. It is not intended to provide in-depth knowledge in one area. However, with careful selection of courses, the degree can be individualized to provide you with the knowledge and skills applicable to your industrial setting.

If you want a skill-specific degree, please refer to degrees offered in Drafting & Design Technology, Industrial Maintenance Technology, Electronics Technology, or Machine Tool Technology.

Degree Options

When you complete the 61-credit General Technology program, you may apply for a Associate in Industrial Technology.

Transfer Opportunities

This degree is readily transferable to Siena Heights toward a Bachelor of Applied Science degree.

Sample Course Sequence

Sequencing of courses is important to your success. You should meet with your program advisor at the beginning of or early in the course sequence to outline and plan the major courses to be completed which will most benefit you and your employer.

Geography

Associate in Arts Degree - TRANSFER PROGRAM Program Code 023

Advisor: Dr. Chris Paine, (269) 927-8100 ext. 5013, paine@lakemichigancollege.edu

Sample Transfer Program

Meeting the degree requirements for the Associate in Arts degree is the most typical curriculum if you are planning to transfer to a geography program at a four-year college or university. **It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend.**

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103 Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Group Ia elective.....	4
Group Ib elective.....	4
Group Ic elective.....	3, 4 or 5
Group II Social Science electives.....	6
Group III Humanities electives.....	9
General Electives.....	24/25

*Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following university to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Western Michigan University

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

Geography is the study of the description, distribution, and interaction of the diverse physical, biological, and cultural features of the Earth's surface. Geography prepares you for a wide variety of careers such as elementary and secondary school teaching, tourism and travel, environmental studies and analysis, regional and urban planning, and cartography.

Graduates find job opportunities in school systems, colleges and universities, and government agencies. The courses allow you to broaden your knowledge and awareness of the world and its people. If you are planning to transfer to a four-year school, you should become familiar with the entire four-year program, selecting courses to meet as many requirements as possible. You should see your advisor for assistance and approval. **There is a 61-credit degree requirement needed for graduation.**

Geology

Associate in Science Degree - TRANSFER PROGRAM Program Code 069

Advisor: Dr. Cole Lovett, (269) 927-8100 ext. 5079, lovett@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Courses

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II	4
Mathematics 151, Calculus I	5
Physical Science 104, Physical Geology.....	4
Physics 101, General Physics I	5
Physics 102, General Physics II.....	9
Group II Social Science electives.....	6
Group III Humanities electives.....	9
General Electives	9/10

*Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

If you are planning to transfer to a four-year college, you should become familiar with your chosen school's requirements. See your advisor for assistance in planning your individualized program of study.

About the Area of Study

Geology deals with the history of the Earth and its life as recorded in rocks and those processes that affect them. Geology offers coursework for you to complete your general education requirements in Science and if you are preparing for professional work in Science. Consult the faculty advisor for specific guidance. **There is a 61-credit degree requirement needed for graduation.**

Graphic Design

Certificate of Achievement - Graphic Design Program Code 392

Associate in Applied Science Degree Program Code 393

Advisor: Brandon Pierce, (269) 927-8100 ext. 5198, pierce@lakemichigancollege.edu

Program Prerequisites

Students must demonstrate proficiency in English, reading, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree Requirements

Credit Hours

College Requirement

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
**Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Government, or History 201, American History to 1865, or History 202, American History 1865 to Present	3

Support Courses

Art 200, History of Art I, or Art 201, History of Art II, or Art 203, 20th Century Art History: 1900-1945, or Art 204, 20th Century Art History: 1945 to Present	3
Sociology 101, Principles of Sociology	3
Psychology 201, Intro to Psychology.....	3
Group Ia or Ib elective	4
Group Ic elective.....	4
Communication 101, Intro to Public Speaking	3
* Art 109, Basic Design 2/D.....	3
* Art 122, Drawing I	3
* Art 123, Drawing II	3

Major Requirements

* Graphic Design 101, Digital Studio.....	3
* Graphic Design 110, Introduction to Graphic Design	3
* Graphic Design 130, Digital Photography	3
* Graphic Design 140, Production Skills for Graphic Design.....	3
* Graphic Design 200, Typography I	3
* Graphic Design 201, Typography II	3
* Graphic Design 220, Design Strategies	3
* Graphic Design 250, Portfolio	3

* Classes required for Certificate program

** Transferring students are encouraged to take PHED 212 or PHED 214.

Note: Students must complete GRDN 110, GRDN 101, and ART 122 before taking other GRDN courses. Full-time students must take GRDN 110, GRDN 101, and ART 122 during the Fall semester of their first year.

About the Area of Study

Graphic design is the intermingling of traditional art and design elements with leading edge computer technology. The Graphic Design program will prepare you for a graphic design career to meet the needs of local employers and to serve as a freelance graphic designer. Graphic designers often work for marketing, public relations, and advertising firms; commercial printing; newspapers; and other publishing settings.

Macintosh-based instruction utilizing industry-standard image editing, page layout, and vector-based illustration software is featured in the program.

Certificate and Degree Options

Upon completion of the 33-credit program, you may apply for a Certificate of Achievement.

Upon completion of the 63-credit program, you may apply for an Associate in Applied Science degree. The certificate coursework can be applied to the associate's degree program.

Transfer Opportunities

If you are planning to transfer to a four-year college, you should become familiar with your chosen school's requirements. See your advisor for assistance in planning your individualized program of study.

Sample Course Sequence

Associate Degree Program

Semester 1	Semester 2
ART 122	ART 109
ENGL 101	ART 123
GRDN 101	ENGL 102
GRDN 110	GRDN 130
SOCS 101	GRDN 140

Semester 3	Semester 4
COMM 101	BIOL 205 or Lab Science Elective
GRDN 200	GRDN 201
GRDN 220	GRDN 250
MATH 122	PHED 200
PSYC 201	POSC 101 or 102, or HIST 201 or 202

Health

Associate in Science Degree - TRANSFER PROGRAM Program Code 053

Advisor: Jill Claeys, (269) 927-8100 ext. 5070, claeys@lakemichigancollege.edu
Daniel Meyer, (269) 927-8100 ext. 5178, meyer@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
Physical Education 214, Personal Health	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Biology 205, Human Anatomy	4
Psychology 201, Introduction to Psychology	3
Sociology 101, Principles of Sociology.....	3
Communication 101, Into to Public Speaking	3
Physical Education 145, Total Fitness I	1
Physical Education or General Electives.....	11 or 12
Group Ia and Ib electives	15 or 16
Group Ic elective	3, 4 or 5
Group III electives	6

About the Area of Study

The courses offered in Health are for those students interested in personal and community health. You have the opportunity to become certified in life-saving techniques or first-aid procedures, investigate various health career options, or evaluate your own levels of healthful living and develop plans toward more health-filled lifestyles. Consult a faculty advisor for specific guidance. **There is a 61-credit degree requirement needed for graduation.**

Transfer Opportunities

If you are planning to transfer to a four-year college, you should become familiar with your chosen school's requirements. See your advisor for assistance in planning your individualized program of study.

History

Associate in Arts Degree - TRANSFER PROGRAM Program Code 021

Advisor: Dr. Chris Paine, (269) 927-8100 ext. 5013, paine@lakemichigancollege.edu

Sample Transfer Program

Meeting the degree requirements for the Associate in Arts degree is the most typical curriculum if you are planning to transfer to a history program at a four-year college or university. **It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend.**

Courses

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Sociology 101, Principles of Sociology.....	3
Group Ic elective	3, 4 or 5
Group II Social Science electives.....	3
Group III Humanities electives.....	9
History or General Electives	24 or 25

The following History classes are offered at LMC:

History 101, History of Western Civilization	4
History 102, History of Western Civilization	4
History 201, American History to 1865	3
History 202, American History 1865 to Present	3
History 204, Modern East Asia	3
History 209, Women in the Western World.....	3
History 210, The Civil War and Reconstruction.....	3

*Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Michigan State University Western Michigan University University of Michigan

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

History is a branch of knowledge that records and explains past events. If you plan to obtain a bachelor's degree in History, you may complete the first two years of your studies at Lake Michigan College. All of the History courses are transferable to other Michigan colleges as well as other four-year colleges and universities.

History majors find employment in areas such as teaching, library/archival fields, and government service. Along with Political Science, a bachelor's degree in History is regarded as a stepping stone to law school. Students are strongly urged to complete two semesters of German, French, or Spanish. Consult a faculty advisor for specific guidance. **There is a 61-credit degree requirement needed for graduation.**

Honors Curriculum—Transfer Program

Advisors: Dr. Gary Roberts, (269) 927-8100 ext. 5016, roberts@lakemichigancollege.edu;

Sample Transfer Program Courses

Fall Semester, Year I

HONR 250 Honors English Composition.....	3
HONR 241 Honors Colloquium.....	1
HONR 101 Honors Biological Science	4
Elective.....	3
HONR 141 Honors National Government.....	3
HONR 100 Honors College & Career Success.....	1
TOTAL:	15

Spring Semester, Year I

HONR 251 Honors English Composition.....	3
HONR 241 Honors Colloquium.....	1
HONR 200 Honors Health & Fitness	3
Elective.....	3
Elective.....	3
Elective.....	3-4
TOTAL:	16-17

Fall Semester, Year II

HONR 151 Honors Calculus I	1
MATH 151 Calculus I	5
HONR 121 Honors Intro to Psychology.....	3
HONR 241 Honors Colloquium.....	1
Elective.....	3-4
Elective.....	3
TOTAL:	16-17

Spring Semester, Year II

HONR 258 Honors Literary Interpretation	3
HONR 241 Honors Colloquium.....	1
Elective.....	3
Elective.....	3
Elective.....	3-4
Elective.....	3
TOTAL:	16-17

Sample Transfer Program

It is essential that you consult with a counselor or academic advisor for the specific requirements of the college you plan to attend.

Admissions Requirements for the Honors Program

High School Graduates or Early College Students

3.5 high school GPA, 25 composite ACT, OR Compass Scores of: Writing 94; Reading 92; Math 66

College Students

3.5 GPA for minimum of 12 hours of college credit, OR Compass Scores of: Writing 94; Reading 92; Math 66

*Exceptions at the discretion of the Director of the Honors Program

Transfer Opportunities

Lake Michigan College has a transfer agreement with Lee Honors College at Western Michigan University.

If you are interested in attending a school not listed here, please work with a counselor or academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

Honors courses allow students to study and interact with their academic peers and increase their access to a wider number of colleges and universities and better their chances for scholarships and other aid.

Hospitality Management

Certificate of Achievement - Hospitality Management Program Code 315

Associate in Applied Science Degree Program Code 316

Advisor: Chris Woodruff, CHE, (269) 927-8100 ext. 5005, woodruff@lakemichigancollege.edu

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing.....	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
**/*Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3

Support Courses

Computer Information Systems 100, Introduction to Computer Literacy, or Computer Information Systems 108, Computer Operations - Micro.....	3
Chemistry 101, Introductory Chemistry I, or Biology 101, Biological Science.....	4
Psychology 201, Introduction to Psychology, or Sociology 101, Principles of Sociology.....	3
Business Administration 101, Business Accounting I, or Business Administration 201, Principles of Accounting I.....	3/4
**Communication 101, Intro to Public Speaking.....	3

Major

**Hospitality Management 110, Sanitation.....	1
**Hospitality Management 111, Responsible Beverage Service.....	1
**Hospitality Management 115, Safety & Legal Overview.....	3
**Hospitality Management 117, Introduction to Meetings and Events.....	3
**Hospitality Management 150, Introduction to Hospitality Careers.....	3
**Hospitality Management 153, Nutrition.....	3
**Hospitality Management 200, Hospitality Management Internship.....	3
**Hospitality Management 201, Restaurant Operations.....	3
**Hospitality Management 250, Food Preparation Skills.....	2
**Hospitality Management 251, Marketing of Hospitality Services.....	3
**Hospitality Management 252, Supervisory Skills & Human Relations.....	3
Hospitality Management 253, Tourism.....	3
**Hospitality Management 254, Hospitality Cost Control Systems.....	3
**Hospitality Management 255, Hotel Management & Operations.....	3

Electives (optional)

Foreign Language 123, Spanish in the Workplace.....	4
**Hospitality Management 202, Introduction to Casino Management.....	3

* Transferring students are encouraged to take PHED 212 or PHED 214.

** Classes required for Certificate program

This program articulates with the Occupational Education Studies (OES) program at Western Michigan University to prepare certified vocational teachers for high schools, technical centers and community colleges. If you think you might be interested in teaching, please discuss the OES program with your advisor. You can learn more about the OES program by visiting www.wmich.edu/gus/occupnedn.html

About the Area of Study

Graduates of the Hospitality Management program may select from a variety of management and staff-related careers in restaurants, hotels, resorts, clubs, and travel and tourism services. Some careers include assistant manager, hotel general manager, executive housekeeper, hotel front office manager, food and beverage manager, and convention services manager. In all of these career paths, strong supervisory, customer service, problem solving, and management skills are needed.

Certificate & Associate's Degree

Upon completion of the 39-credit program, you may apply for a Certificate of Achievement. Upon completion of the 61-credit program, you may apply for an Associate in Applied Science degree. Certificate requirements may be applied to the degree program.

Transfer Options

If you are interested in transferring to a four-year school, see the Hospitality and Tourism Management Program on page 82. You should also speak with a counselor or your academic advisor.

Sample Course Sequence

An advisor will help you make necessary changes to the recommended sequences.

Program Prerequisites

Students must demonstrate proficiency in reading, English and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Certificate Program

Semester 1	Semester 2
HOSP 150	HOSP 111
HOSP 110	HOSP 117
HOSP 115	HOSP 153
COMM 101	HOSP 200
HOSP 251	HOSP 254
HOSP 252	HOSP 201
HOSP 255	HOSP 202

Associate's Degree Program

Semester 1	Semester 2	Semester 3
ENGL 101	ENGL 102	PSYC 201 or CHEM 101 or
HOSP 150	ENGL 103	SOC 101 BIOL 101
HOSP 110	HOSP 111	CIS 100 or FORL 123
HOSP 115	HOSP 117	CIS 108 HOSP 1153
COMM 101	HOSP 201	HOSP 251
HOSP 252		HOSP 255

Semester 4

POSC 101 or POSC 102 or HIST 201 or HIST 202	BUSA 101 or BUSA 201 HOSP 200 HOSP 250	HOSP 253 HOSP 254 PHED 200
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Hospitality and Tourism Management

Associate in Applied Science Degree - TRANSFER PROGRAM Program Code 317

Advisor: Chris Woodruff, CHE, (269) 927-8100 ext. 5005, woodruff@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes.

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition	3
English 102, English Composition, or English 103, Technical Writing	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3

Support Courses

Chemistry 101, Intro to Chemistry I, or Biology 101, Biological Science	4
Sociology 101, Principles of Sociology, or Psychology 201, Intro to Psychology	3
Business Administration 201, Principles of Accounting I	3/4
Computer Information Systems 100, Introduction to Computer Literacy	3
Communication 101, Intro to Public Speaking	3

Major Requirements

Hospitality Management 110, Sanitation	1
Hospitality Management 111, Responsible Beverage Service	1
Hospitality Management 115, Safety & Legal Overview	3
Hospitality Management 117, Introduction to Meetings and Events	3
Hospitality Management 150, Intro to Hospitality Careers	3
Hospitality Management 153, Nutrition	3
Hospitality Management 200, Hospitality Management Internship	3
Hospitality Management 201, Restaurant Operations	3
Hospitality Management 250, Food Preparation Skills	2
Hospitality Management 251, Marketing of Hospitality Services	3
Hospitality Management 252, Supervisory Skills & Human Relations	3
Hospitality Management 253, Tourism	3
Hospitality Management 254, Hospitality Cost Control Systems	3
Hospitality Management 255, Hotel Management & Operations	3

Electives (optional)

Foreign Language 123, Spanish in the Workplace	4
Hospitality Management 202, Introduction to Casino Management	3

* Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

The Hospitality and Tourism Management program is designed as a transfer program for those wanting to pursue a bachelor's degree. By working with an advisor, graduates of the program can earn the first two years of their bachelor's degree and maximize the number of credits that will transfer to their chosen four-year college.

Associate's Degree

Upon completion of the 62-credit program, you may apply for an Associate in Applied Science degree in Hospitality Management.

Transfer Options

If you are interested in transferring to a four-year school to complete your bachelor's degree in hospitality and tourism management, you should work with your academic advisor to ensure that your courses will transfer to the school of your choice.

Sample Course Sequence

An advisor will help you make necessary changes to this recommended sequence.

Associate's Degree Program

Semester 1	Semester 2
ENGL 101	ENGL 102 or
HOSP 150	ENGL 103
COMM 101	HOS P 111
*HOSP 110	HOSP 117
*HOSP 115	PSYC 201
HOSP 252	SOC 101
	CIS 100 or
	CIS 108
Semester 3	Semester 4
CHEM 101	POSC 101 or
BIO 101	POSC 102 or
FORL 123	HIST 201 or
PHED 200	HIST 202
*HOSP 153	BUSA 201 or
*HOSP 201	BUSA 101
*HOSP 202	HOSP 200
*HOSP 251	HOSP 250
*HOSP 255	HOSP 253
	*HOSP 254

Humanities

Associate in Arts Degree - TRANSFER PROGRAM Program Code 024

Advisor: Dr. Denise Scameheorn, (269) 927-8100 x 5017 scameheorn@lakemichigancollege.edu

Sample Transfer Program

Meeting the degree requirements for the Associate in Arts degree is the most typical curriculum if you are planning to transfer to a Humanities program at a four-year college or university. It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend.

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing.....	3
Physical Education 200, Healthful Living.....	1
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Group Ia elective.....	4
Group Ib elective.....	4
Group Ic elective.....	3, 4 or 5
Group II Social Science electives.....	6
Group III Humanities electives.....	9
General Electives.....	24/25

*Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

If you are planning to transfer to a four-year college, you should become familiar with your chosen school's requirements. See your advisor for assistance in planning your individualized program of study.

About the Area of Study

Programs in the Humanities refer to interdisciplinary study including, but not limited to, language both modern and classical, linguistics, literature, history, jurisprudence, philosophy, archaeology, comparative religion, ethics, history/criticism/theory of the arts, and aspects of the sciences which have humanistic content and employ humanistic methods. If you want to pursue a bachelor's degree in Humanities, you may complete your first two years of college courses at Lake Michigan College. All Humanities courses are transferable to other institutions in Michigan and elsewhere.

Courses listed under Art, Communication, English, Foreign Languages, History, Humanities, Music, Philosophy, and Theatre with transferable Humanities credits may be taken as electives for a Humanities concentration. Competency in a foreign language is not a degree requirement at Lake Michigan College; however, Humanities majors are urged strongly to complete at least two semesters of French, German, or Spanish. As a Humanities major, you should seek a broad-based education through careful selection of courses under general electives. Consult the faculty advisor for specific guidance. **There is a 61-credit degree requirement needed for graduation.**

Industrial Maintenance Technology

Associate in Industrial Technology Degree Program Code 360

Advisor: Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

College Requirements

English 101, English Composition.....	3
English 103, Report Writing, or English 102, English Composition.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3

Support Courses

Mathematics 100, Applied Mathematics.....	4
Mathematics 110, Technical Mathematics, or Mathematics 130, Pre-Calculus Trigonometry.....	4/3
Physics 110, Technical Physics.....	4

Major

Industrial Maintenance Technology 109, Intro to Welding.....	2
Industrial Maintenance Technology 204, Basic Hydraulics & Pneumatics.....	2
Industrial Maintenance Technology 205, Hydraulics & Pneumatics Maintenance.....	2
Industrial Maintenance Technology 206, Hydraulics & Pneumatics Circuitry.....	2
Electronics 100, DC Electricity.....	4
Electronics 106, AC Electricity.....	3
Electronics 151, Transformers, Motors, & Motor Controls.....	4
Engineering 103, Beginning Engineering Drawing.....	4
Machine Tool Technology 110, Machine Tool I.....	3
Machine Tool Technology 120, Machine Tool II.....	3
Machine Tool Technology 140, Introduction to NC-CNC.....	2
Manufacturing 111, Manufacturing Processes I.....	3
Manufacturing 120, Fundamentals of Programmable Controllers.....	2
Manufacturing 122, Introduction to Robotics.....	1

Electives (Select 2/3 credit hours)

Electronics 152, Machine Circuitry & Control Logic.....	3
Industrial Maintenance Technology 110, MIG/TIG Welding.....	3
Industrial Maintenance Technology 120, Basic HVAC.....	3
Industrial Maintenance Technology 240, Predictive & Preventive Maintenance.....	3
Manufacturing 123, Programmable Logic Controller II.....	2

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

This program articulates with the Occupational Education Studies (OES) program at Western Michigan University to prepare certified vocational teachers for high schools, technical centers and community colleges. If you think you might be interested in teaching, please discuss the OES program with your advisor. You can learn more about the OES program by visiting www.wmich.edu/gus/occupnedn.html

*Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

As an industrial machinery mechanic you will repair and maintain industrial production and processing machinery in a plant or factory. This will include diagnosing and correcting minor problems with equipment, before they can become major ones. After diagnosing the problem, you will disassemble, repair, reassemble, and test the equipment.

You also may perform preventative maintenance and become involved with replacing and installing new machinery.

Associate's Degree

As a graduate of the Industrial Maintenance program, you may apply for an Associate degree. **There is a 61-credit degree requirement needed for graduation.**

Transfer Options

The Industrial Maintenance program transfers to Ferris State University's manufacturing Engineering Technology program. See your academic advisor for more details.

Program Prerequisites

Proficiency in reading, English and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree Requirements

Sample Course Sequence

An advisor will help you make necessary changes to this recommended sequence.

Associate's Degree Program

Semester 1	Semester 2
MATH 100	MATH 110 or
ELEC 100	MATH 130
ELEC 106	INMT 206
ENGL 101	MANU 120
INMT 204	MANU 122
	ENGL 103 or
	ENGL 102
	ELEC 151

Semester 3	Semester 4
MANU 111	MACH 120
MACH 110	POSC 101 or
INMT 109	POSC 102 or
PHYS 110	HIST 201 or
INMT 205	HIST 202
PHED 200	ENGR 103
	MACH 140
	Electives

Industrial Maintenance Technology

Level I Certificate - Fluid Power Program Code 362

Level I Certificate - Industrial Computing Program Code 364

Advisor: Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successful completion of the recommended classes. See course descriptions for specific course prerequisites.

Level I Fluid Power Certificate

Industrial Maintenance 204, Basic Hydraulics and Pneumatics.....	2
Industrial Maintenance 205, Hydraulics and Pneumatics Maintenance	2
Industrial Maintenance 206, Hydraulics and Pneumatics Circuitry	2
Machine Tool Technology 110, Machine Tool I.....	3
Total Credit Hours	9

Level I Industrial Computing Certificate

Computer Information Systems 108, Computer Operations.....	3
Engineering 103, Beginning Engineering Drawing.....	4
Machine Tool Technology 140, Introduction to CNC.....	2
Machine Tool Technology 150, Introduction to CAM.....	2
Machine Tool Technology 241, CNC Programming I	2
Manufacturing 120, Intro to PLC.....	2
Manufacturing 122, Intro to Robotics	1
Total Credit Hours	16

Level I Certificate Option

Upon completion of the listed programs, you will earn a Level I Certificate of Completion. This Level I certificate is a pathway into the Associate in Industrial Technology degree in Industrial Maintenance and General Technology. It is also a pathway into the Associate in Skilled Trades Technology degree (must be a registered apprentice with the Department of Labor.)

See page 82 for Industrial Maintenance Technology associate's degree.

Law (Pre)

Associate in Arts Degree - TRANSFER PROGRAM Program Code 083

Advisor: Dr. Gary Roberts, (269) 927-8100 ext. 5016, roberts@lakemichigancollege.edu

Sample Transfer Program

Meeting the degree requirements for the Associate in Arts degree is the most typical curriculum if you are planning to transfer to a Pre-Law program at a four-year college or university. **It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend.**

Courses

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103 Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Group Ia elective.....	4
Group Ib elective.....	4
Group Ic elective.....	3, 4 or 5
Group II Social Science electives.....	6
Group III Humanities electives.....	9
General Electives.....	24/25

*Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

If you are planning to transfer to a four-year college, you should become familiar with your chosen school's requirements. See your advisor for assistance in planning your individualized program of study.

About the Area of Study

No particular undergraduate major is necessary to prepare for law school. You should pursue a liberal arts program in which you are interested and attain maximum levels of achievement and success. You should focus your attention on developing the high-level reasoning and writing skills needed to be successful in law school.

Information about legal education, profiles of law schools, and the Law School Aptitude Test (LSAT) is available from the Pre-law advisor.

There is a 61-credit degree requirement needed for graduation.

Law Enforcement

Associate in Applied Science Degree - TRANSFER PROGRAM Program Code 384

From KVCC

Associate in Applied Science Degree Program Code 385

From LMC after completion of KVCC Police Academy or State Police Academy and LMC

Advisor: TBD

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course requirements.

Contact KVCC

See KVCC program information at www.kvcc.edu

Associate in Applied Science Degree from LMC:

Lake Michigan College Courses Credit Hours

College Requirements

English 101, English Composition.....	3
English 103, Technical Writing.....	3
Political Science 102, State Governments.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3

Support Courses

Math or Science Elective - See an Advisor.....	4
Social Science Elective - See an Advisor.....	3

Major

Law Enforcement 140, Introduction to Criminal Justice.....	3
Law Enforcement 142, Police Organization & Administration.....	3
Law Enforcement 144, Criminology.....	3
Law Enforcement 250, Juvenile Delinquency & Behavior.....	3

Kalamazoo Valley Community College Police Academy

Students must apply to KVCC the semester before admission is desired.

EMT 106 Medical First Responder for Law Enforcement*.....	3
LEN 106 Criminal Law and Procedure*.....	4
LEN 150 Fundamentals of Marksmanship.....	2
LEN 202 Motor Vehicle Traffic*.....	4
LEN 243 Patrol Procedures*.....	4
LEN 201 Criminal Investigation*.....	4
LEN 206 Emergency Vehicle Operations*.....	2
LEN 241 Police Physical Skills*.....	4
LEN 242 Tactical Firearms*.....	4
LEN 253 Police Practical Problems*.....	3

*Transferring students are encouraged to take PHED 212 or PHED 214.

The Law Enforcement Training Center certification program is designed to give you a broad based general education along with MCOLES* basic law enforcement certification. You will learn about Police Organization, Criminal Investigation, Traffic control, Delinquency, Criminal Law, Enforcement Procedures, Patrol Procedures, Detention and Prosecution, Police Skills, Traffic and Special Operations. Students selecting this option must complete two semesters of general educational requirements then they must make application to the police academy. The application process is competitive and only the most qualified applicants will be accepted. Upon meeting all MCOLES requirements and successful completion of the entire academy block of instruction, they may be eligible to take the MCOLES certification examination.

This program will also transfer on a 2 + 2 basis to Western Michigan University. Transferability to other four-year institutions in Michigan may be possible.

About the Area of Study

The Law Enforcement program is designed to give you a broad base of general education along with specific skills and knowledge in the field of law enforcement. The program is designed to prepare students for a technical career upon graduation. Several program options are available as noted on these two pages.

A law enforcement career can lead you to be a police officer in almost any geographic area of the country. As a police officer in a rural area, you may perform a wide variety of activities including directing traffic at the scene of a crime, investigating a burglary, or giving first aid to an accident victim. In a larger police department, your duties may be more specific.

There is a 62-credit degree requirement needed for graduation.

Law Enforcement continued

Regional Police Training Academy

Kalamazoo Valley Community College has been designated as a Regional Police Training Academy by the Michigan commission on Law Enforcement Standards. The Police academy provides training for newly hired city, county, and township officers as required by the mandatory Police Training Act in Michigan. In addition, the Police Academy offers the training to pre-service students who meet the minimum requirements to be police officers in the state of Michigan. In this 17-18 week credit program, you will learn about police organization, criminal investigation, traffic control, juvenile law, criminal law, and enforcement procedures. Upon successful completion of the entire academy block of instruction you will be eligible to take the mandatory certification examination given by the Michigan Commission on Law Enforcement Standards. Two Police Academies are held each year, one from August to December and another from February to June,

Unless you meet one of two exceptions listed below, you must have earned a total of 28 credit hours from specified disciplines prior to being admitted to the academy. These 28 credit hours, when combined with the credit hours earned through successful completion of the academy, will enable you to receive an associate degree in order to be eligible for employment as a police officer. Exceptions to this requirement are: 1) an employed police officer who is being sponsored by his/her agency; or 2) an applicant who already holds an associate or higher degree.

NOTE: Graduation requirements are subject to change. Contact the Law Enforcement Training Center at KVCC for the most current program information.

*Students must take and pass, the MCOLES Reading and Writing test and the Physical Skills test prior to tracking in semester III.

**All candidates interested in enrolling in an academy must first meet with the Police Academy Program Director. The director will review MCOLES requirements and standards to determine your eligibility. For further information, contact the Kalamazoo Law Enforcement Training Center at: (269) 488-4336.

Associate's Degree Completion at Lake Michigan College

If you have recently completed the Police Academy at KVCC or the State Police Academy, and the required LMC coursework, you are eligible to apply for the Associate in Applied Science degree at Lake Michigan College.

Degree Options 1+1 with KVCC

Upon completion of the 1+1 program in conjunction with Kalamazoo Valley Community College, you may apply for an Associate in Applied Science or Associate in Arts degree at KVCC, depending on the general education courses you take. The degree will be awarded by KVCC.

Transfer Options

With slight modifications, the Law Enforcement program can be a transfer program and lead to a bachelor's degree upon completion of required courses at certain four-year institutions. Siena Heights University at LMC accepts this degree toward a Bachelor of Applied Science degree.

Legal Office Systems

Certificate of Achievement - Legal Office Assistant Program Code 143

Associate in Applied Business Degree Program Code 145

Advisor: Lisa Augustyniak, (269) 927-8171, augustyn@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree Requirements

Credit Hours

College Requirements

** English 101, English Composition	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3

Support Courses

Communication 101, Introduction to Public Speaking.....	3
Group Ia or Ib elective.....	4
Group II elective	3
Humanities 201, Into to the Arts	3

Major

*** Business Administration 100, Business Mathematics.....	3
Business Administration 205, Business Law	3
** Business Administration 210, Business Correspondence	3
*** Computer Information Systems 123, Spreadsheet Skills	1
*** Computer Information Systems 223, Advanced Spreadsheet Skills	1
** Office Information Systems 114, Intermediate Keyboarding.....	3
** Office Information Systems 125, Records Management	3
** Office Information Systems 201, Advanced Keyboarding.....	3
** Office Information Systems 204, Legal Transcription	3
** Office Information Systems 217, Introduction to Word Processing Applications	3
** Office Information Systems 218, Advanced Word Processing Applications ..	3
** Office Information Systems 219, Legal Office Procedures	3
*** Office Information Systems 261, Office Co-op I.....	3

Program Electives (Select 7 credit hours for degree, 3 hours for certificate)

*** Business Administration 101, Business Accounting I.....	3
Business Administration 103, Introduction to Business	3
Business Administration 209, Principles of Marketing.....	3
Business Administration 211, Principles of Management	3
*** Business Administration 150, Job Search Seminar	1
*** Computer Information Systems 106, Introduction to Operating Systems	3
*** Computer Information Systems 111, Database Concepts	3
Office Information Systems 262, Office Co-op I.....	3
Law Enforcement 140, Introduction to Criminal Justice	3

* Transferring students are encouraged to take PHED 212 or PHED 214.

** Classes required for Certificate program

*** Elective for certificate program - select 3 credit hours

Some courses may be offered in an Open Entry/Open Exit (OE/OE) format.
See course description.

You should notify your advisor and the co-op coordinator of your intention to take OIS 261 or OIS 262 before beginning your second-year classes.

About the Area of Study

The Legal Office Systems program prepares you for a highly skilled job in the legal profession. You will learn legal machine transcription and legal office procedures, computer software, keyboarding, and other general business background. Business law will also be covered in the degree program. As an legal office assistant you may perform a variety of administrative activities for attorneys, judges, prosecuting attorneys, and legal organizations such as Friend of the Court.

Certificate & Degree Options

By completing the 33-credit program in Legal Office Systems, you may apply for a Certificate of Achievement in Legal Office Assistant. The certificate can be applied to the associate's degree program.

By completing the 64-credit program in Legal Office Systems, you may apply for an Associate in Applied Business degree.

Sample Course Sequence

An advisor will help you make necessary changes to these recommended sequences.

Certificate Program

Semester 1	Semester 2
ENGL 101	OIS 125
OIS 114	OIS 201
BUSA 210	OIS 204
OIS 211	OIS 218
OIS 217	OIS 219
	Program Elective

Associate's Degree Program

Semester 1	Semester 2
ENGL 101	ENGL 102 or ENGL 103
OIS 114	CIS 123
BUSA 210	OIS 201
OIS 211	OIS 218
OIS 217	PHED 200
	Program Elective

Semester 3	Semester 4
BUSA 205	OIS 204
OIS 125	OIS 219
POSC 101 or POSC 102 or HIST 201 or HIST 202	OIS 261 COMM 101 General Elective
General Elective CIS 223	

Liberal Arts

Associate in Arts Degree - TRANSFER PROGRAM Program Code 031

Advisor: Dr. Denise Scameheorn, (269) 927-8100 ext. 5017 scameheorn@lakemichigancollege.edu

Sample Transfer Program

Meeting the degree requirements for the Associate in Arts degree is the most typical curriculum if you are planning to transfer to a Liberal Arts program at a four-year college or university. **It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend.**

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
General Electives.....	24/25
Group Ia elective.....	4
Group Ib elective.....	4
Group Ic elective	3, 4 or 5
Group II Social Science electives.....	6
Group III Humanities electives.....	9

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Andrews University
Central Michigan University
Eastern Michigan University
Grand Valley State University
Indiana University at South Bend
Oakland University
Western Michigan University

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

The Liberal Arts curriculum transfers to the general programs of literature, arts, sciences, law, languages, and philosophy at most four-year colleges, universities, and to many pre-professional programs.

Liberal Arts provide a broad-based education to prepare students for most careers. At Lake Michigan College, students may complete courses that transfer and satisfy the freshman and sophomore requirements at most four-year institutions. Students should work closely with their advisor to check with four-year colleges or universities regarding specific group requirements and distributions of subject matter of their choice. **There is a 61-credit degree requirement needed for graduation.**

Machine Tool Technology

Certificate of Achievement - Machine Tool Technology Program Code 346

Associate in Industrial Technology Degree Program Code 345

Advisor: Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition	3
English 103, Technical Writing, or English 102, English Composition	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3

Support Courses

** Mathematics 100, Applied Mathematics	4
** Mathematics 110, Technical Mathematics	4
Physics 110, Technical Physics	4

Major

** Machine Tool Technology 110, Machine Tool I	3
** Machine Tool Technology 120, Machine Tool II	3
Machine Tool Technology 129, Use Machinery's Handbook	2
** Machine Tool Technology 130, Precision Inspection	3
** Machine Tool Technology 140, Introduction to Numerical Control	2
** Machine Tool Technology 150, Introduction to CAM	2
Machine Tool Technology 220, Press Working/Mold Making	3
Machine Tool Technology 241, CNC Programming I	2
Machine Tool Technology 242, CNC Programming II	2
Machine Tool Technology 251, 2D/3D Machining	2
** Engineering 103, Beginning Engineering Drawing	4
** Drafting & Design 202, Tool Design II	3
** Industrial Maintenance Technology 109, Intro to Welding	2
** Manufacturing 111, Manufacturing Processes I	3
** Trade Related Instruction 134, Metallurgy and Heat Treating	3
Computer Information Systems 102, Basic Computer Literacy	1

Electives (electives are suggested, but not required)

Industrial Maintenance Technology 110, MIG/TIG Welding	3
*** Trade Related/Apprentice 107, Applied Geometry/Trigonometry	4
Machine Tool Technology 231, CMM Fundamentals	2

- * Transferring students are encouraged to take PHED 212 or PHED 214.
- ** Classes required for certificate program.
- *** Course required for transfer to Machine Tool Technology Degree to Ferris State University.

Some courses may be offered in Open Entry/Open Exit (OE/OE) format. See course description.

This program articulates with the Occupational Education Studies (OES) program at Western Michigan University to prepare certified vocational teachers for high schools, technical centers and community colleges.

If you think you might be interested in teaching, please discuss the OES program with your advisor. You can learn more about the OES program by visiting www.wmich.edu/coe/fcs/cte/oes

About the Area of Study

The Machine Tool Technology program provides basic and advanced machining skills. Class time is spent in the classroom as well as working in the lab on traditional metal cutting machinery and computer-numerically-controlled machines. If you have previous machining experience from a vocational high school program or industrial experience, you may qualify for advanced standing. Journeymen in the machine field are able to apply previous course work and experience toward an associate's degree. Career opportunities include CNC operator, CNC programmer, machine builder, machinist, and tool and die maker.

Certificate and Degree Options

When you complete the 36-credit Machine Tool Technology program, you may apply for Certificate of Achievement. This allows you to enter the job market with basic, entry-level skills. Credit earned can be applied toward your associate's degree.

When you complete the 62-credit Machine Tool Technology program, you may apply for an Associate in Industrial Technology degree.

Transfer Option

The Machine Tool Technology associate's degree program transfers to Ferris State University's Manufacturing Engineering Technology program. See your advisor for more information.

Sample Course Sequence

An advisor will help you make necessary changes to these recommended sequences.

Certificate Program

Semester 1	Semester 2
ENGR 103	DRAF 202
MACH 110	INMT 109
MACH 150	MACH 120
MANU 111	MACH 130
TRIN 134	MACH 140
MATH 100	MATH 110

Associate's Degree Program

Semester 1	Semester 2	Semester 3
ENGR 103	CIS 102	MACH 130
MACH 110	MACH 120	MACH 241
MACH 150	MACH 140	PHED 200
MANU 111	MATH 110	POSC 101 or
MATH 100	INMT 109	POSC 102 or
ENGL 101	ENGL 102 or	HIST 201 or
	ENGL 103	HIST 202
		TRIN 134

Semester 4

DRAF 202	MACH 251
MACH 129	PHYS 110
MACH 220	
MACH 242	

Machine Tool Technology - Level I Certificates

Machine Tool Certificate – Program Code 347

Numerical Control Specialty Certificate – Program Code 348

Technology Certificate – Program Code 344

Manufacturing Production Certificate – Program Code 366

Advisor: Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successful completion of the recommended classes. See course descriptions for specific course prerequisites.

Level I Machine Tool - Level I Certificate

Machine Tool Technology 110, Machine Tool I.....	3
Machine Tool Technology 120, Machine Tool II.....	3
Machine Tool Technology 140, Intro to Numerical Control (NC) Computer Numerical Control (CNC).....	2
Trade Related Instruction 134, Metallurgy and Heat Treatment.....	3
Trade Related Instruction 144, Blueprint and Sketching.....	4
Total Credit Hours	15

Level I Numerical Control Specialty - Level I Certificate

Machine Tool Technology 110, Machine Tool I.....	3
Machine Tool Technology 140, Introduction to CNC.....	2
Machine Tool Technology 150, Introduction to CAM.....	2
Machine Tool Technology 241, CNC Programming I.....	2
Machine Tool Technology 242, CNC Programming II.....	2
Trade Related Instruction 144, Blueprint and Sketching.....	4
Total Credit Hours	15

Level I Technology - Level I Certificate

English 103, Technical Drawing Fundamentals.....	4
Machine Tool Technology 110, Machine Tool I.....	3
Manufacturing 111, Manufacturing Processes I.....	3
Mathematics 100, Applied Math.....	4
Trade Related Instruction 138, Industrial Safety.....	1
Trade Related Instruction 144, Blueprint and Sketching.....	4
Total Credit Hours	19

See page 89 for Machine Tool Technology associate's degree and certificate of achievement.

Level I Certificate Option

Upon completion of any of the listed programs, you will earn a Level I Certificate of Completion. These Level I certificates are a pathway into the Associate in Industrial Technology degree in Machine Tool Technology and General Technology. They are also a pathway into the Skilled Trades Technology associate degree (must be a registered apprentice with the Department of Labor.)

Magnetic Resonance Imaging (MRI)

Certificate of Achievement - Magnetic Resonance Imaging Program Code 242

Associate in Applied Science – Magnetic Resonance Imaging Program Code 240

Advisors: Kerry Mohnney, (269) 927-8100 ext. 5093, mohnney@lakemichigancollege.edu
Student Services Academic Advising (269) 927-8128

Program Prerequisites

This program has special admission procedures based on a program specific GPA ranking and limited enrollment. A certain number of seats will be reserved for certified medical imaging professionals. See the specific admission requirements for Health Science students on page 15. Contact Student Services Academic Advising at ext. 8128 for an academic advising appointment or the Health Science office at ext. 5090 for complete details. An advisor will help you determine prerequisites that are required and designed to prepare you for training in the program.

Prerequisite and Support Courses

Biology 101, Biological Science, or	
Biology 108, Basic Human Anatomy.....	4
Biology 205, Human Anatomy.....	4
Physical Science 101, Physical Science: Chemistry and Physics.....	4
Health 166, CPR/AED.....	1
Health 165, Standard First Aid.....	1.5
Psychology 201, Introduction to Psychology.....	3
Reading 110, Medical Terminology.....	1

College Requirements

Credit Hours

English 101, English Composition I.....	3
English 102, English Composition II.....	3
Political Science 101, National Government, or	
Political Science 102, State Governments, or.....	3
History 201, American History to 1865, or	
History 202, American History 1865 to Present	
Physical Education 200, Healthful Living, or	
Physical Education 212, Health and Fitness, or	
Physical Education 214, Personal Health.....	1/3

Major Requirements

*Magnetic Resonance Imaging 100, Introduction to the MRI Patient.....	3
*Magnetic Resonance Imaging 101, Clinical Experience A.....	1
*Magnetic Resonance Imaging 102, MRI Anatomy I.....	3
*Magnetic Resonance Imaging 103, MRI Physics I.....	3
*Magnetic Resonance Imaging 104, Image Analysis I.....	2
*Magnetic Resonance Imaging 105, Clinical Experience B.....	3
*Magnetic Resonance Imaging 106, MRI Anatomy II.....	3
*Magnetic Resonance Imaging 107, MRI Physics II.....	3
*Magnetic Resonance Imaging 108, Image Analysis II.....	2
*Magnetic Resonance Imaging 109, Clinical Experience C.....	3
*Magnetic Resonance Imaging 110, MRI Anatomy III.....	3
*Magnetic Resonance Imaging 111, Clinical Experience D.....	3
Magnetic Resonance Imaging 112, Clinical Experience E.....	5
Magnetic Resonance Imaging 113, Registry Review.....	2

*Courses required for Certificate Program

Magnetic Resonance Imaging Technology Program Handbook

In addition to the rules stated in this catalog, MRI students are required to abide by the rules stated in the MRI Technology Program Handbook.

About the Area of Study

The Magnetic Resonance Imaging (MRI) program trains you to become a Magnetic Resonance Imaging (MRI) technologist. The certificate program, for medical imaging professionals, includes one spring semester and one summer semester of course work. You will obtain clinical experience at local health care facilities in addition to formal classroom instruction provided on campus.

MRI technologists are employed in hospitals and imaging centers where they use sophisticated medical imaging equipment based on radiofrequency and magnetic principles. In addition to preparing patients and operating equipment, MRI technologists also work with radiologists, referring physicians, and hospital management to assure quality patient care and diagnosis.

MRI technologists also serve in capacities such as departmental managers, technical advisors and applications specialists, sales and service for MRI manufacturers, and as educators.

Program Accreditation

See program advisor for more details.

Certificate and Degree Options

Medical Imaging professionals completing the 32-credit program in Magnetic Resonance Imaging will be awarded a Certificate of Achievement - Magnetic Resonance Imaging. The certificate can be applied to the associate's degree program. Students from a non-imaging background must complete the 63.5-credit associate degree program for Magnetic Resonance Imaging.

Certification Examination

Qualified graduates are eligible to sit for the ARRT's MRI certification exam. See the program advisor for details.

Sample Course Sequence

Certificate Program

Semester 1	Semester 2	Semester 3	Semester 4
MRIT 100	MRIT 102	MRIT 106	MRIT 110
MRIT 101	MRIT 103	MRIT 107	MRIT 111
	MRIT 104	MRIT 108	
	MRIT 105	MRIT 109	

Associate Degree Program

Semester 1	Semester 2	Semester 3	Semester 4
PHED 200	ENGL 101	ENGL 102	MRIT 110
MRIT 100	MRIT 102	MRIT 106	MRIT 111
MRIT 101	MRIT 103	MRIT 107	POSC 101 or
	MRIT 104	MRIT 108	102 or HIST
	MRIT 105	MRIT 109	201 or 202

Semester 5

MRIT 112
MRIT 113

Management and Marketing

Associate in Applied Business Degree Program Code 151

Advisors: Greg Iwaniuk, (269) 927-8100 ext. 2949, iwaniuk@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course requirements.

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing.....	3
Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3

Support Courses

Psychology 201, Introduction to Psychology.....	3
Communication 101, Introduction to Public Speaking.....	3
Lab Science Elective Group 1a or 1b.....	4
Group 1c elective.....	3, 4 or 5
Group III elective.....	3/4

Major Requirements

Business Administration 101, Business Accounting I, or Business Administration 201, Principles of Accounting I.....	3/4
Business Administration 103, Introduction to Business.....	3
Business Administration 150, Job Search Seminar.....	1
Business Administration 203, Principles of Economics (Macro), or Business Administration 204, Principles of Economics (Micro).....	3
Business Administration 205, Business Law I.....	3
Business Administration 209, Principles of Marketing.....	3
Business Administration 210, Business Correspondence.....	3
Business Administration 211, Principles of Management.....	3
Computer Information Systems 108, Computer Operations-Microcomputing.....	3

Business Electives (Select 13 credit hours)

Business Administration 100, Business Mathematics.....	3
Business Administration 104, Salesmanship.....	3
Business Administration 105, Principles of Retailing.....	3
Business Administration 115, Principles of Customer Service.....	3
Business Administration 116, Fundamentals of Quality Customer Service.....	1
Business Administration 117, Customer Communication.....	1
Business Administration 118, Special Customer Service Skills.....	1
Business Administration 151, Marketing Career Development.....	1
Business Administration 201, Principles of Accounting I.....	4
Business Administration 202, Principles of Accounting II.....	4
Business Administration 203, Principles of Economics (Macro).....	3
Business Administration 204, Principles of Economics (Micro).....	3
Business Administration 207, Small Business Management.....	3
Business Administration 208, Advertising & Sales Promotion.....	3
Business Administration 216, Business Statistics.....	3
Business Administration 220, Organizational Behavior.....	3
Business Administration 261/263, Co-op I.....	3
Business Administration 262/264, Co-op II.....	3
Philosophy 250, Sophomore Seminar in Philosophy.....	3

About the Area of Study

The Management & Marketing program prepares you for entry-level management positions in business and industry, including retail and wholesale. As a graduate, you will find employment opportunities in areas such as personnel administration, customer relations, advertising, sales, and merchandising. An important feature of the program is the chance to earn college credit for cooperative work experience.

Associate's Degree

By completing the 61-credit program in Management and Marketing you may apply for the Associate in Applied Business degree.

Transfer Options

Students planning to transfer to a four-year business school should work closely with a Management & Marketing advisor to ensure optimum transferability.

Sample Course Sequence

An advisor will help you make necessary changes to this recommended sequence.

Associate's Degree Program

Semester 1	Semester 2
ENGL 101	ENGL 102 or
CLS 100	ENGL 103
PHED 200	POSC 101
BUSA 103	POSC 102
COMM 101	HIST 201
BUSA 100	HIS5 202
CIS 108	BUSA 209
	BUSA 211
	BUSA Electives

Semester 3	Semester 4
PSYC 201	BUSA 150
BUSA 101	BUSA 210
BUSA 201	BUSA 203
BUSA 205	BUSA 204
BUSA Electives	BUSA Electives

Management and Marketing

Level I Certificate - Customer Service Program Code 153

Level I Certificate - Management Program Code 154

Level I Certificate - Marketing Program Code 155

Advisors: Greg Iwaniuk, (269) 927-8100 ext. 2949, iwaniuk@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successful completion of the recommended classes. See course descriptions for specific course prerequisites.

Level I Customer Service Certificate

Business 103, Introduction to Business.....	3
Business 115, Principles of Customer Service.....	3
Business 116, Fundamentals of Quality Customer Service.....	1
Business 117, Customer Communication.....	1
Business 118, Special Customer Service Skills.....	1
Business 210, Business Correspondence.....	3
Computer Information Systems 108, Computer Operations, Microcomputing.....	3

Total Credit Hours 15

See page 94 for Management and Marketing associate degree.

Level I Management Certificate

Business 101, Business Accounting I.....	3
Business 103, Introduction to Business.....	3
Business 150, Job Search Seminar.....	1
Business 207, Small Business Management A, B and C.....	3
Business 211, Principles of Management.....	3
Business 220, Organizational Behavior.....	3

Total Credit Hours 16

Level I Marketing Certificate

Business 104, Salesmanship.....	3
Business 105, Principles of Retailing.....	3
Business 115, Principles of Customer Service.....	3
Business 208, Advertising and Sales Promotion.....	3
Business 209, Principles of Marketing.....	3

Total Credit Hours 15

Level I Certificate Option

Upon completion of the listed program, you may apply for a Level I Certificate of Completion. This Level I certificate is a pathway into the Associate in Applied Business degree in Management and Marketing as well as the Associate in Business Administration degree.

Manufacturing Engineering for Western Michigan University

Associate in Applied Science Degree - Manufacturing Engineering - WMU

Program Code 265

Advisors: James Larson, (269) 927-8100 ext. 5148, larson@lakemichigancollege.edu
Mike Durren, (269) 927-8100 ext. 5012, durren@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

College Requirements

Credit Hours

English 101, English Composition.....	3
English 103, Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Governments, or Political Science 102, State Government, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3

Program Requirements

Chemistry 111, General Chemistry I.....	4
Computer Information Systems 254, C Programming.....	3
Communications 101, Public Speaking.....	3
Engineering 103, Beginning Engineering Drawing.....	4
Mathematics 151, Calculus I.....	5
Mathematics 201, Calculus II.....	5
Mathematics 202, Calculus III.....	5
Mathematics 252, Differential Equation.....	4
Physical Education 220, Healthful Living II.....	2
Philosophy 102, Intro to Logic.....	3
Physics 201, Engineering Physics I.....	5
Physics 202, Engineering Physics II.....	5
Art, Drama, Humanities or Music Group III elective.....	3

*Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

The Manufacturing Engineering program is specifically designed to meet the requirements for the Bachelor of Science in Engineering (Manufacturing) program at Western Michigan University. If you are interested in transferring to another university, please work directly with an LMC advisor to determine the transferability of this program.

Degree Option

By completing the 61-credit program in Manufacturing Engineering, you may apply for an Associate in Applied Science degree.

Sample Course Sequence

Year 1 – Fall

ENGL 101
MATH 151
PHYS 201
POSC 101, or
POSC 102, or
HIST 201, or
HIST 202

Year 1 – Winter

ENGL 102 or 103
MATH 201
PHYS 202
COMM 101

Year 2 – Fall

MATH 202
CHEM 111
ENGR 103
Group III elective or
CIS 254
prerequisite
PHED 200

Year 2 – Winter

MATH 252
PHIL 102
CIS 254
COMM 101
PHED 220

Mathematics

Associate in Science Degree - TRANSFER PROGRAM Program Code 052

Advisors: Chris Bendixen, (269) 927-8100, ext. 5176, bendixen@lakemichigancollege.edu
Dr. Gerry Cox, (269) 927-8100, ext. 5077, cox@lakemichigancollege.edu
Jim Larson, (269) 927-8100, ext. 5148, larson@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

Courses

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Mathematics 151, Calculus I	5
Mathematics 201, Calculus II	5
Mathematics 202, Calculus III	5
Mathematics 252, Differential Equations	4
Physics 201, Engineering Physics I.....	5
Physics 202, Engineering Physics II.....	5
Group II Social Science electives.....	6
Group III Humanities electives.....	9
General Electives.....	7/8

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Michigan Technological University Western Michigan University University of Michigan

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

About the Area of Study

Mathematics is an art, science, and language that encompasses the beauty of pattern and structure, the challenge of uncertainty and abstraction, and the excitement of solving problems. It provides a foundation for much of modern human society. Courses cover the range of basic mathematical functions to more advanced work with calculus, statistics and differential equations. Mathematics students hone their ability to reason effectively and write clearly.

Many careers are open to Mathematics majors. Some pursue graduate degrees or become teachers, and others choose among several professions. Potential fields include law, medicine, business, communication, actuarial science, academic or industrial research, consulting, writing, editing, computer science, statistics, and operations research. Consult a faculty advisor for specific guidance. **There is a 61-credit degree requirement needed for graduation.**

Medical Assistant Technology

1+2 with Kalamazoo Valley Community College Program Code 238
Associate in Applied Science Degree from KVCC

Advisor: Dr. Delores Jackson, (269) 927-8100 ext. 5092, jacksond@lakemichigancollege.edu
Student Services Academic Advising (269) 927-8128

Program Prerequisites

You must demonstrate 45 wpm proficiency in typing prior to acceptance at KVCC. For Lake Michigan College courses, you must demonstrate proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree Requirements

Credit Hours

First Year Courses at Lake Michigan College

English 101, English Composition.....	3
English 103, Technical Writing	3
Biology 101, Biological Science	4
Biology 108, Basic Anatomy and Physiology, or Biology 205, Human Anatomy	4
Computer Information Systems 102, Basic Computer Literacy, or Computer Information Systems 108, Computer Operations- Microcomputing1/3	
Political Science 101, National Government, or Political Science 102, State Governments	3
Psychology 201, Introduction to Psychology	3
Physical Education, Elective	2
Office Information Systems 217, Intro to Word Processing Applications.....	3
Office Information Systems 208, Medical Transcription	3

Major Requirements (at KVCC)

See KVCC program information at www.kvcc.edu

About the Area of Study

Lake Michigan College provides the first year of a three-year Associate in Applied Science degree in Medical Assistant Technology offered by KVCC. The program is fully accredited by the Commission on Accreditation of Allied Health Education Programs.

You will enroll simultaneously at Lake Michigan College and KVCC, take the first-year courses at Lake Michigan College, and then transfer to KVCC for the final two years of medical assistant courses.

Associate's Degree

Upon completion of the KVCC program, graduates receive an Associate in Applied Science degree through KVCC.

Sample Course Sequence

An advisor will help you make necessary changes to this recommended sequence.

Associate's Degree Program

Semester 1	Semester 2
ENGL 101	ENGL 103
BIOL 101	BIOL 108
POSC 101	BIOL 205
POST 102	CIS 102
PHED Elective	CIS 108
OIS 217	PSYC 201
	PHED Elective
	OIS 208

Years 2 & 3 taken at KVCC.

Medical Office Systems

Certificate of Achievement - Medical Office Assistant Program Code 149

Associate in Applied Business Degree Program Code 146

Advisor: Lisa Augustyniak, (269) 927-8171, augustyn@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Associate Degree Requirements Credit Hours

College Requirements

** English 101, English Composition	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3

Support Courses

Communication 101, Introduction to Public Speaking	3
Biology 205, Human Anatomy	4
Humanities 201, Into to the Arts	3
Group III elective	3

Major Requirements

** Reading 110, Medical Terminology Vocabulary	1
*** Business Administration 100, Business Mathematics	3
Business Administration 210, Business Correspondence	3
*** Computer Information Systems 123, Spreadsheet Skills	1
*** Computer Information Systems 223, Advanced Spreadsheet Skills	1
** Office Information Systems 114, Intermediate Keyboarding	3
** Office Information Systems 125, Records Management	3
** Office Information Systems 201, Advanced Keyboarding	3
** Office Information Systems 208, Medical Transcription	3
** Office Information Systems 217, Introduction to Word Processing Applications ...	3
** Office Information Systems 218, Advanced Word Processing Applications ...	3
** Office Information Systems 220, Medical Office Procedures	3
*** Office Information Systems 261, Office Co-op I	3

Program Electives (Select 8 credit hours for degree, 2-3 hours for certificate)

*** Business Administration 101, Business Accounting	3
Business Administration 103, Introduction to Business	3
*** Business Administration 150, Job Search Seminar	1
Business Administration 209, Principles of Marketing	3
Business Administration 211, Principles of Management	3
*** Computer Information Systems 106, Introduction to Operating Systems	3
*** Computer Information Systems 111, Database Concepts	3
Health 120, Health and Health Occupations	2
** Office Information Systems 211, Office Procedures	3
Office Information Systems 262, Office Co-op II	3

* Transferring students are encouraged to take PHED 212 or PHED 214.

** Classes required for certificate program.

*** Electives for certificate program.

Some courses may be offered in an Open Entry/Open Exit (OE/OE) format. See course description.

You should notify your advisor and the Co-op Coordinator of your intention to take OIS 261 or OIS 262 before beginning your second-year classes.

About the Area of Study

The Medical Office Systems program prepares you for a highly skilled job in the health care industry. You will learn medical transcription, medical office procedures, medical terminology, computer software, and keyboarding. As an medical office assistant you may perform a variety of administrative activities in physicians' offices, hospitals, nursing homes, pharmaceutical companies, government agencies, or other health agencies.

Certificate & Degree Options

By completing the 30-credit program in Medical Office Systems, you will be awarded a Certificate of Achievement. The certificate can be applied to the associate's degree program.

By completing the 64-credit program in Medical Office Systems, you may apply for an Associate in Applied Business degree.

Transfer Options

This degree transfers to Siena Heights University's Bachelor of Applied Science program. Work with your LMC advisor if you wish to transfer to another college or university's bachelor degree program.

Sample Course Sequence

An advisor will help you make necessary changes to these recommended sequences.

Certificate Program

Semester 1	Semester 2
ENGL 101	OIS 201
OIS 114	OIS 208
OIS 211	OIS 218
OIS 217	OIS 220
Program Elective	READ 110
	OIS 125

Associate's Degree Program

Semester 1	Semester 2	Semester 3
ENGL 101	ENGL 102	BIOL 205
OIS 114	ENGL 103	OIS 125
BUSA 210	OIS 201	POSC 101 or
OIS 211	OIS 218	POSC 102 or
OIS 217	PHED 200	HIST 201 or
	READ 110	HIST 202
	Program Elective	Program Elective
	CIS 123	Program Elective
		CIS 223

Semester 4

OIS 208
OIS 220
OIS 261
COMM 101
General Elective

Medicine & Osteopathic Medicine (Pre)

Associate in Science Degree - TRANSFER PROGRAM Program Code 084

Advisors: Dr. Susan Lentz, (269) 927-8100 ext. 5076, lentz@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Mathematics 151, Calculus I.....	5
Biology 111, Principles of Biology I.....	4
Biology 112, Principles of Biology II.....	4
Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II.....	4
Chemistry 203, Organic Chemistry I.....	4
Chemistry 204, Organic Chemistry II.....	4
Physics 101, General Physics I.....	5
Physics 102, General Physics II.....	5
Group II Social Science electives.....	6
Group III Humanities electives.....	9

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

If you are planning to transfer to a four-year college, you should become familiar with your chosen school's requirements. See your advisor for assistance in planning your individualized program of study.

About the Area of Study

Medical schools have increased their interest in students with diverse academic training. In addition to expecting basic studies in biology, chemistry, physics, and mathematics, they want students with interests and skills in humanities and social sciences.

It is highly advised that you supplement your curriculum with volunteering, shadowing or working in a medical setting.

Since minimum admission requirements vary among medical and osteopathic medical schools, you should work with the Pre-Medical advisor to become familiar with the medical school in which you are interested. The Pre-Medical advisor will assist you in planning your programs. **There is a 61-credit degree requirement needed for graduation.**

Mortuary Science (Pre)

Associate in Science Degree - TRANSFER PROGRAM Program Code 085

Advisors: Dr. Fran Miles (269) 927-8100 ext. 7157, miles@lakemichigancollege.edu
Frank Stijnman (269) 927-8100 ext. 5256, stijnman@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Courses

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Mathematics 128, Pre-Calculus Algebra	4
Biology 111, Principles of Biology I.....	4
Biology 205, Human Anatomy	4
Business 201, Principles of Accounting I.....	4
Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II	4
Group II Social Science electives.....	6
Group III Humanities electives.....	9
General Electives.....	12/13

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following university to develop a program guide. This guide ensures that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Wayne State University

If you are interested in attending a school not listed here, please work with a counselor or academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

A one-year Mortuary Science program is offered at Wayne State University and requires 60 semester hours of undergraduate credit. A two-year sequence of courses, which includes those that fulfill the requirements of the Associate in Science degree at Lake Michigan College, is designed for students who plan to transfer to Wayne State University and pursue the Pre-Mortuary curriculum. Consult the faculty advisor for specific guidance. **There is a 61-credit degree requirement needed for graduation.**

Music

Associate in Arts Degree - TRANSFER PROGRAM Program Code 035

Advisor: Daniel Hendrickson, (269) 927-6588, hendrick@lakemichigancollege.edu

Sample Transfer Program

Meeting the degree requirements for the Associate in Arts degree with a Music emphasis requires more general education coursework than the Associate in Applied Science degree with a Music emphasis. Students electing the A.A. degree will transfer with course deficiencies in music unless they enroll for a third year or take additional courses during spring and summer terms.

In addition to the general education courses listed below, music students also participate in ensembles, take applied lessons, and complete music theory and history courses. It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend.

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103 Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Group Ia electives.....	4
Group Ib electives.....	4
Group Ic elective.....	3, 4 or 5
Group II Social Science electives.....	6
Group III Humanities electives.....	9
General Electives.....	24/25

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Central Michigan University
Michigan State University
University of Michigan
Western Michigan University

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

Career Options

The field of music offers many possibilities for a fulfilling and rewarding career. Job opportunities exist in diverse areas such as music education, music therapy, music technology, church music, songwriting, performing, publishing, licensing, music business, instrument building and repair, and many others. Completing an associate's degree with a music concentration can provide the first step in preparing for a career as a musician.

About the Area of Study

The principal degree offered with a concentration in music is the Associate in Arts. If your goal is to complete a Bachelor's degree in music or a music-related field, you may complete the first two years of your music coursework at LMC. An audition is required for acceptance into the program, to be properly placed in an applied music level, to match your abilities with an ensemble, and to decide on scholarship awards. For further information on specific audition requirements, please contact the Performing Arts Office (269) 927-8111 ext. 5237.

The program provides professional training that emphasizes music performance for students intending to pursue careers in music and music-related fields. It provides non-majors the opportunity to enrich their general education with survey courses, with general electives such as applied music courses, and with ensemble participation. The program also serves as a cultural resource center for students, the college community, and beyond.

If you plan to transfer to a four-year school, you should become familiar with the curriculum of your transfer school and consult with your advisor before outlining your program. If you are entering the Music major program, you should have been a member of instrumental or choral performance groups during high school, and should be able to demonstrate high levels of academic and musical achievement. Consult a music faculty advisor for specific guidance. There is a 61-credit degree requirement needed for graduation.

Music

Associate in Applied Sciences Degree - TRANSFER PROGRAM Program Code 215

Advisor: Daniel Hendrickson, (269) 927-6588, hendrick@lakemichigancollege.edu

Sample Transfer Program

Meeting the degree requirements for the Associate in Applied Sciences degree is the most typical curriculum if you are planning to transfer to the Music program at a four-year college or university. As a music student, you will also participate in ensembles, take applied lessons, and complete music theory and history courses. It is essential that you consult with a music advisor for the specific requirements of the college you plan to attend.

Associate Degree Requirements

Credit Hours

College Requirements

** English 101, English Composition	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3

Support Courses

Group Ia or Ib Elective	4
Group II or III Electives	7

Electives

Music 100+ or 200+, Applied Music	8
Music 101, Concert Choir, or Music 103, Symphonic Wind Ensemble-Southshore Concert Band.....	8
Music 114, Piano Class I	2
Music 115, Piano Class II.....	2
Music 162, Basic Music I	3
Music 163, Basic Music II.....	3
Music 262, Basic Music III.....	3
Music 263, Basic Music IV	3
Music 164, Aural Comprehension I	1
Music 165, Aural Comprehension II.....	1
Music 264, Aural Comprehension III.....	1
Music 265, Aural Comprehension IV	1
Music 213, Music History I.....	3
Music 214, Music History II.....	3

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Central Michigan University
Michigan State University
University of Michigan
Western Michigan University

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

Career Options

The field of music offers many possibilities for a fulfilling and rewarding career. Job opportunities exist in diverse areas such as music education, music therapy, music technology, church music, songwriting, performing, publishing, licensing, music business, instrument building and repair, and many others. Completing an associate's degree with a music concentration can provide the first step in preparing for a career as a musician.

About the Area of Study

The Music curriculum prepares you for opportunities that require a traditional degree and provides an outlet for your performance skills. Coursework is available if you are interested solely in advancing your music skills or earning the first two years of a four-year degree in Music leading to the Bachelor of Arts, Bachelor of Music Education, or Bachelor of Science degree.

Applied music courses give you direct contact with performance faculty who help you improve your technical competence on your instrument or in voice. Music theory and history are offered for a better appreciation of the art form. Symphonic Wind Ensemble, Concert Choir, Jazz Band, and "Voices LMC" are open to all students through audition and afford regular performance opportunities.

Nursing (Practical)

Certificate - Practical Nursing (PN) Program Code 214

Pre-Nursing Advisors: Student Services Academic Advising at (269) 927-8128

Transfer students and re-admission students should call Dr. Delores Jackson at (269) 927-8100 ext. 5092 for information.

Appointments are made by the Health Science secretary by calling (269) 927-8100 ext. 5090.

Admission Requirements

The Nursing programs have special admission procedures and limited enrollment. Please see the specific admission requirements for health science students on page 15. An academic advisor will help you determine your eligibility and, if necessary, recommend Lake Michigan College courses designed to prepare you for training in the desired program.

Prerequisite Courses

Credit Hours

Reading 110, Medical Terminology Vocabulary (or equivalent).....	1
Biology 101, Biological Science, or Biology 108, Basic Human A-P	4
Biology 205, Human Anatomy	4
Computer Information Systems 102, Basic Computer Literacy (or equivalent - except Keyboarding)	1
Chemistry 104, Fundamentals of General, Organic, and Biochemistry	4

Certificate Requirements

Credit Hours

Support Courses

Biology 206, Human Physiology.....	4
English 101, English Composition.....	3
Psychology 201, Introduction to Psychology	3
Psychology 203, Human Development	3

Major

Nursing 180, Nursing Fundamentals	6
Nursing 130, Pharmacology I.....	2
Nursing 185, Women's Health	4
Nursing 186, Medical-Surgical Nursing I.....	3
Nursing 187, Medical-Surgical Nursing II.....	3
Nursing 135, Pharmacology II	2
Nursing 190, Child Nursing.....	3
Nursing 191, Adult Nursing.....	4
Nursing 192, Advanced Medical-Surgical Nursing.....	5
Nursing 288, Current Issues in Nursing.....	1

Note: Students must have at least a "C" grade in all Science and all Nursing classes.

There is a ten-year time limit on science courses accepted for program entrance.

Note: BIOL 206 has prerequisites, including CHEM 101 (prior to Fall 2006) or CHEM 105 and BIOL 205, that must be taken prior to admission into the Nursing program. CIS 102 is a basic computer class with hands-on experience on a PC. Recommended alternate equivalent course for CIS 102 are CIS 100 and CIS 122.

Entrance into each semester of Nursing classes requires completion of all courses, including General Education courses, from the previous semester. General Education classes may be taken earlier, but not later, than listed.

Sample Course Sequence

The following course sequences are recommended if you want to complete the entire LPN in one year. It is a rigorous schedule and many students prefer to ease the load by completing some or all of the general education requirements prior to beginning nursing classes. An advisor will help you make necessary changes to this sample schedule.

Certificate Program

Semester 1

BIOL 206
ENGL 101
PSYC 201
NURS 180
NURS 130

Semester 2

PSYC 203
NURS 185
NURS 186
NURS 187
NURS 135

Semester 3

NURS 190
NURS 191

Semester 4

NURS 192
NURS 288

Nursing (Practical) continued

About the Area of Study

Lake Michigan College's Practical Nursing program is approved by the Michigan Board of Nursing. Graduates qualify to take the National Council Licensure Exam for practical Nurses (NCLEX-PN).

Students enrolled in the one-year Practical Nursing program share the same first two semesters with those enrolled in the Registered Nursing program. The differences in the programs are College graduation and Support Course requirements.

This arrangement makes it possible for LMC's Practical Nursing graduates and other Licensed Practical Nurses (LPNs) who meet Advanced Standing requirements (see nursing student handbook or program advisor) to enter the second year of the nursing program after completing the Support Courses from the first year of the program and qualifying for admission to the associate's degree program.

Nursing program applicants should be aware that the Michigan Board of Nursing, in its Practice Act, states that it can deny a license to an applicant if any of the following are true:

1. Has been convicted of a criminal offense in a court of law.
2. Is habitually intemperate in the use of alcoholic beverages.
3. Is addicted to, or has improperly obtained, possessed, used, or distributed habit-forming drugs or narcotics.
4. Is guilty of dishonesty or unethical conduct.
5. Has violated or aided or abetted others in violation of any provision of this act.

This is not an inclusive list. If there are questions about a situation, please call the Board of Nursing, (517) 335-0918, and/or check in the Nursing lab for a copy of the Public Health Code.

Clinical Assignments

In addition to classroom work, you will participate in clinical assignments. The eight-hour or 12 hour shifts are scheduled during days, evenings, and weekends at facilities throughout the region and attendance is required. Because clinical schedules are not flexible, you will need to work your schedule around these times, have dependable child care, and have access to dependable transportation in order to travel to the assignments. You should also plan for additional time outside of the printed schedule for practice, clinical preparation, and study.

Expenses

As a student in the Nursing program, you should expect costs greater than the average LMC student. These additional costs will include a greater number of textbooks, school-approved uniforms, a pre-program physical exam, immunization for specified communicable diseases, nametags, testing, and background checks.

Nursing Program Handbook

In addition to the rules stated in this catalog, Lake Michigan College Nursing students are required to abide by rules stated in the Nursing Student Handbook. You can get a copy of the LMB from the Health Science advisor or review it in the College library.

Transfer Options

Lake Michigan College's Nursing program is designed to transfer to Andrews University, Ferris State University, Grand Valley State University or Western Michigan University which operate degree completion programs for a bachelor's degree in Nursing, or to other four-year institutions depending on their policies. Talk to the Lake Michigan College Nursing program advisor for more information about transferring credit. Lake Michigan College has formal articulation agreements with Ferris State University and Western Michigan University.

Because the Licensed Practical Nursing program is a ladder program (see the Nursing Handbook), students have transferability options to other community colleges or universities. Licensed Practical Nursing may attend Lake Michigan College to obtain their RN-AD or transfer to other schools who have LPN-RN programs.

Nursing (Registered)

Associate in Applied Science Degree Program Code 210

Pre-Nursing Advisors: Student Services Academic Advising at (269) 927-8128

Transfer students and re-admission students should call Dr. Delores Jackson at (269) 927-8100 ext. 5092 for information.

Appointments are made by the Health Science secretary by calling (269) 927-8100 ext. 5090.

Admission Requirements

The Nursing programs have special admission procedures and limited enrollment. Please see the specific admission requirements for health science students on page 15. Contact the Admissions Office for complete details. An advisor will help you determine your eligibility and, if necessary, recommend Lake Michigan College courses designed to prepare you for training in the desired program.

Prerequisite Courses

Credit Hours

Reading 110, Medical Terminology Vocabulary (or equivalent).....	1
Biology 101, Biological Science, or Biology 108, Basic Humn A-P.....	4
Biology 205, Human Anatomy	4
Computer Information Systems 102, Basic Computer Literacy	1
(or substitute)	
Chemistry 101, Introductory Chemistry I (only if taken prior to Fall 2006), or	
Chemistry 104, Fundamentals of General, Organic, and Biochemistry	4

College Requirements

English 101, English Composition.....	3
English 102, English Composition (not ENGL 103).....	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History 1865, or History 202, American History 1865 to Present	3
Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3

Support Courses

Biology 206, Human Physiology.....	4
Psychology 201, Introduction to Psychology	3
Psychology 203, Human Development.....	3
Sociology 101, Principles of Sociology.....	3
Hospitality Management 113, Nutrition & Diet Therapy	3

Major

Nursing 180, Nursing Fundamentals	6
Nursing 130, Pharmacology I	2
Nursing 185, Women's Health	4
Nursing 186, Medical-Surgical Nursing I.....	3
Nursing 187, Medical-Surgical Nursing II.....	3
Nursing 135, Pharmacology II	2
Nursing 280, Community Mental Health	4
Nursing 281, Medical-Surgical Nursing III	3
Nursing 282, Medical-Surgical Nursing IV.....	3
Nursing 285, Children's Health	4
Nursing 286, Medical-Surgical Nursing V	3
Nursing 287, Medical-Surgical Nursing VI.....	3
Nursing 288, Current Issues in Nursing.....	1

Note: Students must have at least a "C" grade in all science and all nursing classes. There is also a ten-year time limit on science courses accepted for program entrance.

Note: BIOL 206 has prerequisites, including CHEM 101 (Prior to fall 2006), or CHEM 105 and BIOL 205, that must be taken prior to admission into the Nursing program. CIS 102 is a basic computer class with hands-on experience on a PC. Recommended alternate equivalent courses for CIS 102 are CIS 100 and CIS 122.

Sample Course Sequence

The following course sequences are recommended if you want to complete the entire ADN RN in two years. It is a rigorous schedule and many students prefer to ease the load by completing some or all of the general education requirements prior to beginning nursing classes. An advisor will help you make necessary changes to this sample schedule.

Associate's Degree Program

Semester 1	Semester 2	Semester 3
BIOL 206	PSYC 203	ENGL 102
ENGL 101	NURS 185	HOSP 113
PSYC 201	NURS 186	PHED 200
NURS 180	NURS 187	
NURS 130	NURS 135	
Semester 4	Semester 5	
SOC 101	POSC 101 or	
NURS 280	POSC 102 or	
NURS 281	HIST 201 or	
NURS 282	HIST 202	
	NURS 285	
	NURS 286	
	NURS 287	
	NURS 288	

Program Accreditation

The associate's degree Nursing program is approved by the Michigan Board of Nursing and is accredited by the National League for Nursing Accrediting Commission (NLNAC), 61 Broadway, New York, NY 10006, Phone: 212-363-5555. This agency is a resource for information about length of programs and required tuition and fees. **There is a 67-credit degree requirement needed for graduation.**

Nursing (Registered) continued

Entrance into each semester of Nursing classes requires completion of all courses, including General Education courses, from the previous semester. General Education classes may be taken earlier, but not later, than listed.

About the Area of Study

The Associate Degree Nursing (ADN) program qualifies graduates to take the National Council Licensure Exam (NCLEX-RN) leading to state licensure as a Registered Nurse (RN).

Students enrolled in the two-year associate's degree program (RN) or the one-year Practical Nursing program (PN) share the same first two semesters. The differences in the programs are College graduation and support course requirements. This arrangement makes it possible for LMC's Practical Nursing graduates and other Licensed Practical Nurses (LPNs) who meet Advanced Standing requirements (see nursing student handbook or program advisor) to enter the second year of the nursing program after completing the support courses from the first year of the program and qualifying for admission to the associate's degree program.

Nursing program applicants should be aware that the Michigan Board of Nursing, in its Practice Act, states that it can deny a license to an applicant if any of the following are true:

1. Has been convicted of a criminal offense in a court of law.
2. Is habitually intemperate in the use of alcoholic beverages.
3. Is addicted to, or has improperly obtained, possessed, used or distributed habit-forming drugs or narcotics.
4. Is guilty of dishonesty or unethical conduct.
5. Has violated or aided or abetted others in violation of any provision of this act.

This is not an inclusive list. If there are questions about a situation, please call the Board of Nursing, (517) 335-0918, and/or check in the Nursing lab for a copy of the Public Health Code.

Clinical Assignments

In addition to classroom work, you will participate in clinical assignments. The eight-hour or 12-hour shifts are scheduled during days, evenings, and weekends at facilities throughout the region and attendance is required. Because clinical schedules are not flexible, you will need to work your schedule around these times, have dependable child care, and have access to dependable transportation in order to travel to the assignments. You should also plan for additional time outside of the printed schedule for practice, clinical preparation, and study.

Nursing Program Handbook

In addition to the rules stated in this catalog, Lake Michigan College Nursing students are required to abide by rules stated in the Nursing Student Handbook. You can get a copy of the Nursing Student Handbook from the Health Science advisor or review it in the William Hessel library.

As a student in the Nursing program, you should expect costs greater than the average LMC student. These additional costs will include a greater number of textbooks, school-approved uniforms, a pre-program physical exam, immunization for specified communicable diseases, name tags, testing and background checks.

Transfer Options

LMC's Nursing program is designed to transfer to Andrew University, Ferris State University, Grand Valley State University, or Western Michigan University which operate degree completion programs for a bachelor's degree in Nursing, or to other four-year institutions depending on their policies. Talk to the LMC Nursing program advisor for more information about transferring credit. LMC has formal articulation agreements with Ferris State University and Western Michigan University.

Optometry (Pre)

Associate in Science Degree - TRANSFER PROGRAM Program Code 086

Advisor: Dr. Susan Lentz, (269) 927-8100 ext. 5076, lentz@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Courses

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Mathematics 151, Calculus I	5
Biology 111, Principles of Biology I.....	4
Biology 112, Principles of Biology II.....	4
Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II	4
Physics 101, General Physics I	5
Physics 102, General Physics I	5
Group II Social Science electives.....	6
Group III Humanities electives.....	9
General Electives.....	5/6

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following university to develop a program guide. This guide ensures that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Ferris State University

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

Lake Michigan College offers most of the courses required for admission to optometry school. The Pre-Optometry advisor has details about optometry schools. **There is a 61-credit degree requirement needed for graduation.**

Optometrists start with a pre-med curriculum. It is highly advised for you to supplement your curriculum with volunteering, shadowing or working in a setting with optometrists. A career in optometry may include private practice, large chain stores, military institutions or academies to name a few. Optometrists are involved in eye care, diagnostics, and vision correction techniques.

Paramedic

Certificate of Achievement - Paramedic Program Code 213

Associate in Applied Science Degree Program Code 212

Advisors: Anthony Pantaleo, (269) 927-8100 ext. 5230, apantaleo@medic1ambulance.org
Nicole Hubbard, (269) 925-2144, nhubbard@medic1ambulance.org

Program Prerequisites

This program has special admission procedures based on a program specific application process and limited enrollment. Please contact the Admissions Office or an advisor for complete details. An advisor will help you determine prerequisites that are required and designed to prepare you for training in the program.

Prerequisite Courses

Additional courses may be needed based upon assessment results.

EMT 162, Basic EMT 8

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition..... 3

English 102, English Composition, or
English 103, Technical Writing 3

Political Science 101, National Government, or
Political Science 102, State Governments, or
History 201, American History to 1865, or
History 202, American History 1865 to Present 3

* Physical Education 200, Healthful Living, or
Physical Education 212, Health & Fitness, or
Physical Education 214, Personal Health 1 or 3

Support Courses

Psychology 201, Introduction to Psychology 3

Communication 101, Introduction to Public Speaking..... 3

Major Requirements

Paramedic 101, Advanced EMT 1 8

Paramedic 102, Advanced EMT Lab 1 2

Paramedic 103, Advanced EMT Clinical 1 1

Paramedic 104, Advanced EMT Human Body & Pathophysiology 4

Paramedic 201, Advanced EMT II 8

Paramedic 202, Advanced EMT Lab II 2

Paramedic 203, Advanced EMT Clinical II..... 2

Paramedic 204, Advanced EMT ACLS 1

Paramedic 221, Advanced EMT III..... 8

Paramedic 222, Advanced EMT Lab III 2

Paramedic 223, Advanced EMT Clinical III..... 3

Paramedic 224, PEPP Provider Course 1

Paramedic 225, ITLS Provider Course 1

Paramedic 230, Internship 5

* Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

The Paramedic program trains you to become an emergency medical technician – paramedic. This 12-month program begins fall semester and continues the entire year to the following September. You will obtain clinical experience at local ambulance providers and health care facilities in addition to formal classroom instruction provided on campus. Paramedics are employed in pre-hospital ambulances, hospitals, clinics, and physicians offices where they care for patients with various conditions. In addition to preparing patients and operating equipment, paramedic students also keep patient records and may prepare treatment plans, evaluate equipment readiness, or manage patient care under supervision of licensed staff.

Program Sponsor & Approval

This program is sponsored by Medic 1 Ambulance, Benton Harbor, MI, (269) 925-2144. The program sponsor is approved by :
Michigan Department of Community Health
EMS & Trauma Systems Section
201 Townsend Street
Lansing, MI 48913

Degree and Certificate

Upon successful completion of the 48 credit program, you may apply for a Certificate of Achievement. Upon successful completion of the 64-credit program, you may apply for an Associate in Applied Science Degree.

Certification Examination

Graduates are eligible to apply for the National Registry of EMT's examination to become licensed in the State of Michigan. Any applicant who has been convicted of a felony and some misdemeanors must contact NREMT to determine eligibility for examination. Course completion does not guarantee licensure.

Sample Course Sequence

An advisor will help you make necessary changes to this recommended sequence.

Associate's Degree Program

Semester 1	Semester 2	Semester 3
PARA 101	PARA 201	PARA 221
PARA 102	PARA 202	PARA 223
PARA 103	PARA 203	
PARA 104	PARA 204	
Semester 4	Semester 5	Semester 6
PARA 222	ENG 101	ENG 102/103
PARA 224	POSC 101/102	COMM 101
PARA 230	or	PSYC 201
	HIST 201/202	
	PHED 200	

Pharmacy (Pre)

Associate in Science Degree - TRANSFER PROGRAM Program Code 087

Advisor: Dr. Bal Barot, (269) 927-8100 ext. 5072, barot@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Courses

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103 Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Mathematics 151, Calculus I.....	5
Biology 111, Principles of Biology I.....	4
Biology 112, Principles of Biology II.....	4
Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II.....	4
Chemistry 203, Organic Chemistry I.....	4
Chemistry 204, Organic Chemistry II.....	4
Physics 101, General Physics I.....	5
Physics 102, General Physics II.....	5
Group II Social Science electives.....	6
Group III Humanities electives.....	9
General Electives.....	1/2

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Ferris State University University of Michigan

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

You may begin the Pre-Pharmacy program at Lake Michigan College by completing a two-year sequence of courses and transferring credits to a four-year school. You should become familiar with the admission requirements for your chosen four-year college or university and adjust your program accordingly with the assistance of the Pre-Pharmacy advisor. **There is a 61-credit degree requirement needed for graduation.**

Philosophy

Associate in Arts Degree - TRANSFER PROGRAM Program Code 022

Advisor: Dr. Denise Scameheorn, (269) 927-8100 ext. 5017 scameheorn@lakemichigancollege.edu

Sample Transfer Program

Meeting the degree requirements for the Associate in Arts degree is the most typical curriculum if you are planning to transfer to a Philosophy program at a four-year college or university. **It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend.**

Courses

Credit Hours

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Group Ia elective.....	4
Group Ib elective.....	4
Group Ic elective	3, 4, or 5
Group II Social Science electives.....	6
Group III Humanities electives.....	9
General Electives.....	24/25

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

If you are planning to transfer to a four-year college, you should become familiar with your chosen school's requirements. See your advisor for assistance in planning your individualized program of study.

About the Area of Study

Philosophy is a discipline that deals with all learning exclusive of technical precepts and the practical arts. Courses include study in areas such as logic, ethics, religious thought, and issues with technology, business, and medicine.

If you are pursuing a bachelor's degree in Philosophy, you may complete your first two years of coursework at Lake Michigan College. All Philosophy courses are transferable to other institutions in Michigan and elsewhere.

Well-prepared Philosophy majors have done well consistently in the Graduate Record Examination (GRE) and Law School Aptitude Test (LSAT).

You may complete the requirements for an Associate in Arts degree. Competency in a foreign language is not a degree requirement. However, Philosophy majors are strongly urged to complete at least two semesters of French, German, or Spanish. As a Philosophy major, you should seek a broad-based education through careful selection of courses. Consult the faculty advisor for specific guidance.

Physical Education & Wellness

Associate in Science Degree - TRANSFER PROGRAM Program Code 091

Advisors: Jill Claeys, (269) 927-8100 ext. 5070, claeys@lakemichigancollege.edu
Daniel Meyer, (269) 927-8100 ext. 5178, meyer@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Biology 205, Human Anatomy	4
Biology 206, Principles of Human Physiology	4
Physical Science 101, Chemistry and Physics.....	4
Communication 101, Introduction to Public Speaking.....	3
Mathematics 122, Intermediate Algebra (or above)	4
Physical Education 201, Foundations of Physical Education	3
Psychology 201, Introduction to Psychology	3
Psychology 203, Human Development	3
Physical Education electives and General Electives	9/10
Group Ia, Ib or Ic electives	8
Group III Humanities electives	6

About the Area of Study

The Physical Education and Wellness program offers instruction and opportunities to participate in fitness-related activities, recreational and lifetime activities, and wellness promotion opportunities.

The professional program offers instruction in physical education skills, programs, philosophy, and administration. It is open to students planning to complete a major or minor in physical education, recreation, or coaching for their bachelor's degree program. Consult a faculty advisor for specific guidance. **There is a 61-credit degree requirement needed for graduation.**

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Central Michigan University
Western Michigan University
Grand Valley State University

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

Physical Science

Associate in Science Degree - TRANSFER PROGRAM Program Code 063

Advisor: Dr. Cole Lovett, (269) 927-8100 ext. 5079, lovett@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II	4
Mathematics 151, Calculus I	5
Physical Science 104, Physical Geology.....	4
Physics 101, General Physics I	5
Physics 102, General Physics II.....	5
Group II Social Science electives.....	6
Group III Humanities electives.....	9
General Electives.....	9/10

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

If you are planning to transfer to a four-year college, you should become familiar with your chosen school's requirements. See your advisor for assistance in planning your individualized program of study.

About the Area of Study

Physical Science offers an introduction to the physical sciences (chemistry, geology, and physics); provides coursework for you to complete your general education requirements in Science; provides initial preparation work in a science field. **There is a 61-credit degree requirement needed for graduation.**

Physical Therapy (Pre)

Associate in Science Degree - TRANSFER PROGRAM Program Code 088

Advisor: Jill Claeys, (269) 927-8100 ext. 5070, claeys@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Courses

Credit Hour

Biology 205, Human Anatomy	4
Biology 206, Human Physiology.....	4
Chemistry 105, Fundamentals of Inorganic Chemistry.....	4
Chemistry 106, Fundamentals of Organic and Biologic Chemistry, or Chemistry 111, General Chemistry I.....	5
Physics 101, General Physics I.....	5
Physics 102, General Physics II.....	5
Mathematics 135, Algebra and Trigonometry	4
Mathematics 216, Intro to Statistics	3
English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health, or Physical Education 200, Healthful Living	3
Political Science 101, National Government, or Political Science 102, State Government, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Psychology 201, Introduction to Psychology	3
Psychology 203, Human Development	3
Group III electives.....	9

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Andrews University

Grand Valley State University

University of Michigan

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

The course requirements for admission into a physical therapy master's program may be completed at Lake Michigan College. Since the minimum requirements vary among physical therapy schools, you should become familiar with them for the physical therapy school in which you are interested. The Physical Therapy advisor will assist you in planning your specific program. **There is a 61-credit requirement needed for graduation.**

Physician's Assistant (Pre)

Associate in Science Degree – TRANSFER PROGRAM Program Code 076

Advisor: Dr. Susan Lentz, (269) 927-8100 ext. 5076, lentz@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop and individualized program that meets the specific requirements of the college you plan to attend.**

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Governments, or Political Science 102, State Government, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Biology 111, Principles of Biology I.....	4
Biology 112, Principles of Biology II.....	4
Biology 205, Human Anatomy.....	4
Biology 206, Human Physiology.....	4
Biology 210, Microbiology.....	4
Chemistry 203, Organic Chemistry I.....	4
Chemistry 204, Organic Chemistry II.....	4
Physics 101, General Physics.....	5
Physics 102, General Physics II.....	5
Psychology 203, Human Development.....	3
Mathematics 216, Intro to Statistics.....	3
Psychology 201, Intro to Psychology.....	3
Group III electives.....	9

* Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

Students preparing for a career as a Physician's Assistant must earn a bachelor's degree from an accredited institution with a minimum GPA (minimum GPA varies among individual schools). Lake Michigan College offers many courses that may serve as the first two years of the undergraduate course requirements and/or pre-requisites for upper-division (junior/senior) courses in fulfillment of the Physician's Assistant program.

While specific institutional requirements may vary, they typically require undergraduate work in anatomy, upper-division physiology, microbiology, upper-division biochemistry, organic chemistry, developmental psychology, statistics, and English composition. Some programs will require health care experience ranging from 500-1000 hours. Since this is a graduate level program, scores from the Graduate Record Exam (GRE) are required for admission. It is important for students to check with the individual Physician's Assistant programs to determine their institution's admission requirements and work with an LMC advisor to build the appropriate schedule of classes to meet those requirements.

Physics

Associate in Science Degree - TRANSFER PROGRAM Program Code 065

Advisor: Mike Durren, (269) 927-8100 ext. 5012, durren@lakemichigancollege.edu

Sample Transfer Program

The following sample college transfer program provides you with an example of a transfer program. **It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend.**

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II.....	4
Mathematics 151, Calculus I.....	5
Mathematics 201, Calculus II.....	5
Mathematics 202, Calculus III.....	5
Mathematics 252, Differential Equations.....	3
Physics 201, Engineering Physics I.....	5
Physics 202, Engineering Physics II.....	5
Group II Social Science electives.....	6
Group III Humanities electives.....	9

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Michigan Technological University Western Michigan University

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

Physics is a science that deals with matter, energy, and their interactions at the most basic levels. Consult the faculty advisor for specific guidance. **There is a 61-credit degree requirements needed for graduation.**

Political Science

Associate in Arts Degree - TRANSFER PROGRAM Program Code 014

Advisor: Dr. Gary C. Roberts, (269) 927-8100 ext. 5016, , roberts@lakemichigancollege.edu

Sample Transfer Program

Meeting the degree requirements for the Associate in Arts degree is the most typical curriculum if you are planning to transfer to a Political Science program at a four-year college or university. **It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend.**

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Group Ia elective.....	4
Group Ib elective.....	4
Group Ic elective	3, 4 or 5
Group II Social Science electives.....	6
Group III Humanities electives.....	9
Political Science or General Electives	24/25

The following Political Science classes are offered at Lake Michigan College:

Political Science 101, National Government.....	3
Political Science 102, State Government	3
Political Science 202, Comparative Government.....	3
Political Science 203, International Relations	3
Political Science 204, Political Parties.....	3
Political Science 250, Introduction to Social Science Research.....	3
Political Science 260, Introduction to Public Policy.....	3

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following university to develop a program guide. This guide ensures that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

University of Michigan

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

Political Science is the study of local, state, national, and international governments and their impact upon human society. If your goal is to pursue a bachelor's degree in Political Science, you may complete your first two years of coursework at Lake Michigan College. Political Science courses are transferable to other institutions in Michigan and elsewhere. Political Science is recommended if you are interested in government service, elective politics or a law degree. Consult the faculty advisor for specific guidance. **There is a 61-credit degree requirement needed for graduation.**

Psychology

Associate in Arts Degree - TRANSFER PROGRAM Program Code 012

Advisors: Judith Buchalski, (269) 927-8100 ext. 5015, buchal@lakemichigancollege.edu
Dr. Denise Scameheorn, (269) 927-8100 ext. 5017, scameheo@lakemichigancollege.edu

Sample Transfer Program

Meeting the degree requirements for the Associate in Arts degree is the most typical curriculum if you are planning to transfer to a Psychology program at a four-year college or university. **It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend.**

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103 Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Group Ia elective.....	4
Group Ib elective.....	4
Group Ic elective.....	3, 4 or 5
Group II Social Science electives.....	6
Group III Humanities electives.....	9
Psychology or General electives.....	24/25

The following Psychology classes are offered at Lake Michigan College:

Psychology 201, Introduction to Psychology.....	3
Psychology 203, Human Development.....	3
Psychology 204, Child Development and Personality.....	3
Psychology 205, Interpersonal Relations.....	3
Psychology 206, Social Psychology.....	3
Psychology 230, Psychology of Stereotyping and Prejudice.....	3
Psychology 231, Abnormal Psychology.....	3
Psychology 250, Introduction to Social Science Research.....	3

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Central Michigan University
Grand Valley State University
Western Michigan University
University of Michigan

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

Psychology is the study of human consciousness, behavior, and experience to develop an understanding of the human condition. You will learn about yourself and others, and see more deeply into the human personality. If you plan to major in Psychology at a four-year university, you may complete the first two years of your program at Lake Michigan College.

You have a unique opportunity to conduct research in Psychology 250. Research projects that qualify are published in The Lake Michigan College Journal of Psychology. Students may be eligible for membership in Psi Beta, the national honor society for Psychology students at community and junior colleges. Consult a faculty advisor for specific guidance. **There is a 61-credit degree requirement needed for graduation.**

Radiologic Technology

Associate in Applied Science Degree Program Code 221

Advisor: Kerry Mohney, (269) 927-8100 ext. 5093, mohney@lakemichigancollege.edu
 Student Services Academic Advising (269) 927-8128
 Contact Student Services Academic Advising at ext. 8128 or the Health Science office at ext. 5090 for complete details.

Program Prerequisites

This program has special admission procedures based on a program specific GPA ranking and limited enrollment. Please see the specific admission requirements for Health Science students on page 15. Contact the Admissions Office for complete details. An advisor will help you determine prerequisites that are required and designed to prepare you for training in the program.

Prerequisite and Support Courses

Biology 101, Biological Science, or Biology 108.....	4
Biology 205, Human Anatomy.....	4
Physical Science 101, Chemistry and Physics, or Chemistry 105, Fundamentals of Inorganic Chemistry.....	4
Health 166, CPR/AED (or equivalent).....	1
Health 165, Standard First Aid (or equivalent).....	2
Reading 110, Medical Terminology.....	1
Psychology 201, Introduction to Psychology.....	3

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition.....	3
English 102, English Composition.....	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1/3

Major Requirements

Radiologic Technology 130, Introduction to Radiography.....	3
Radiologic Technology 131, Radiographic Positioning I.....	3
Radiologic Technology 133, Clinical Experience A.....	2
Radiologic Technology 140, Radiographic Positioning II.....	3
Radiologic Technology 141, Contrast Studies.....	3
Radiologic Technology 142, Radiographic Physics.....	4
Radiologic Technology 143, Clinical Experience B.....	2
Radiologic Technology 145, Radiographic Protect/Biology.....	2
Radiologic Technology 146, Clinical Experience C.....	1
Radiologic Technology 230, Common Equipment and Procedures.....	4
Radiologic Technology 231, Radiographic Positioning III.....	3
Radiologic Technology 232, Clinical Experience D.....	5
Radiologic Technology 240, Radiographic Quality.....	4
Radiologic Technology 241, Special Procedures/Emerging Modalities.....	3
Radiologic Technology 242, Clinical Experience E.....	3
Radiologic Technology 245, Clinical Experience F.....	3

Radiologic Technology Program Handbook

In addition to the rules stated in this catalog, Radiologic Technology students are required to abide by the rules stated in the Radiologic Technology Program Handbook, which may be reviewed in the College library.

About the Area of Study

The Radiologic Technology program trains you to become a radiologic technologist. This 21-month program includes two spring semesters, and one summer semester of courses. You will obtain clinical experience at local healthcare facilities in addition to formal classroom instruction provided on campus.

Radiologic technologists are employed in hospitals, clinics, commercial x-ray laboratories, and physician offices where they use radiation to produce images of the bones and organs of the human body. In addition to preparing patients and operating equipment, radiologic technologists also keep patient records and may prepare work schedules, evaluate equipment purchases, or manage a radiology department.

Program Accreditation

This program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 N. Wacker Dr., Suite 2850, Chicago, IL 60606-3182; Phone 312-704-5300.

Associate's Degree

Upon successful completion of the Radiologic Technology program, you may apply for an Associate in Applied Science degree.

Certification Examination

Graduates are eligible to apply to sit for the American Registry of Radiologic Technology (ARRT) national certification examination. Any applicant who has been convicted of a felony and some misdemeanors must pre-apply to ARRT for determination of eligibility to sit for the national certification examination.

Sample Course Sequence

An advisor will help you make necessary changes to this recommended sequence.

Associate's Degree Program

Semester 1	Semester 2	Semester 3
ENGL 101	ENGL 102	RADT 145
RADT 130	RADT 140	RADT 146
RADT 131	RADT 141	
RADT 133	RADT 142	Semester 4
	RADT 143	RADT 232

Semester 5	Semester 6
PHED 200	POSC 101 or POSC 102
RADT 230	HIST 201 or HIST 202
RADT 231	RADT 240
RADT 242	RADT 241
	RADT 245

Cardio Respiratory Care (Respiratory Therapy)

1 + 2 with Kalamazoo Valley Community College Program Code 205

Associate in Applied Science Degree from KVCC

Advisor: Dr. Delores Jackson, (269) 927-8100, ext. 5092, jacksond@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree Requirements

Credit Hours

First Year Courses at Lake Michigan College

English 101, English Composition.....	3
English 102, English Composition.....	3
Biology 205, Human Anatomy.....	4
Biology 206, Principles of Human Physiology.....	4
Biology 210, Microbiology, or.....	4
KVCC HCR 120, Applied Microbiology.....	2
Chemistry 101, Introductory Chemistry I, or	
Chemistry 105, Fundamentals of Inorganic Chemistry.....	4
Political Science 101, National Government, or	
Political Science 102, State Governments.....	3
Psychology 201, Introduction to Psychology, or	
Sociology 101, Principles of Sociology.....	3
Physical Education, Elective.....	2
Reading 110, Medical Terminology.....	1

Major Requirements (at KVCC)

See KVCC program information at www.kvcc.edu

About the Program

Lake Michigan College offers the first year of a three-year Associate in Applied Science degree in CardioRespiratory Care in cooperation with Kalamazoo Valley Community College. The program is accredited by the Commission on Accreditation of Allied Health Education programs. Respiratory therapists are in demand to provide cardiorespiratory care in health care facilities. The major emphasis is placed upon cardiopulmonary critical care technology and prepares you for the national practitioner examinations which lead to certification and registry. Extensive adult and neonatal critical care clinical experience is required as part of this program.

Respiratory therapists evaluate, treat, and care for patients with breathing disorders. As a respiratory therapist, you will work with all types of patients from premature newborns whose lungs are not fully developed to older people whose lungs are diseased.

Hospitals are the primary employer of respiratory therapists however, there is a growing number of positions available in home health agencies, respiratory therapy clinics, and nursing homes.

Associate's Degree Upon completion of the KVCC program, graduates receive an Associate in Applied Science degree through KVCC.

You will enroll simultaneously at Lake Michigan College and KVCC, take first-year courses at Lake Michigan College, then transfer to KVCC for two years of Respiratory Care courses.

Sample Course Sequence

See the Lake Michigan College Health Sciences Department Chair for schedule planning and application information. Additional details are available from the Admissions Office.

Associate's Degree Program

Semester 1	Semester 2
ENGL 101	ENGL 102
BIOL 205	BIOL 206
SOC 101 or	POSC 101 or
PSYC 201	POSC 102
PHED Elective	PHED Elective
READ 110	

Years 2 & 3 – Taken at KVCC

Skilled Trades Technology

Certificate of Achievement - Skilled Trades Technology Program Code 382

Associate in Skilled Trades Technology Program Code 381

Advisors: Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition.....	3
English 103, Technical Writing, or English 102, English Composition.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Government, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3

Support Courses

Mathematics 100, Applied Mathematics.....	4
Mathematics 110, Technical Mathematics I, or Trade Related Instruction 107, Applied Geometry/Trigonometry.....	4
Health 165, Standard First Aid/Personal Safety.....	2
Health 166, CPR/AED.....	1
Physics 110, Technical Physics.....	4

Major courses and electives

See program Advisor for course selection.....36.5

These will vary according to your focus and must be chosen with an advisor's assistance. Courses that represent the core of United States Department of Labor Registered apprenticeship may be considered elements of your major for purposes of the associate's degree.

* Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

In cooperation with local employers, Lake Michigan College provides training for men and women enrolled in formal Apprenticeship Agreements approved by the U.S. Department of Labor, Office of Apprenticeship and Training. Such training programs include academic instruction as well as on-the-job training and usually take a minimum of two years to four years to complete.

Certificate and Degree Options

A student who has completed the academic requirements of a U.S. Department of Labor Registered Apprenticeship and completed a minimum of 30 credit hours may also elect to participate in the graduation ceremony and receive a Lake Michigan College Certificate of Achievement in recognition of their accomplishment.

The Associate in Skilled Trades Technology degree is designed for those apprentices that have received a Completion Certificate from the U.S. Department of Labor or possess a journeyman card. The degree incorporates the courses taken during the student's apprenticeship training, additional advanced level courses, and general education courses. Upon completion of the degree program with a minimum of 61 credit hours, a student can apply for graduation and be awarded an Associate in Skilled Trades Technology.

Sample Course Sequence

Sequencing of courses is important to your success. The program advisor can assist with sequencing your courses.

Sociology/Social Work (Pre)

Associate in Arts Degree - TRANSFER PROGRAM Program Code 011

Advisor: Dr. Michelle Stone, (269) 927-8100, ext. 5014 stone@lakemichigancollege.edu

Sample Transfer Program

Meeting the degree requirements for the Associate in Arts degree is the most typical curriculum if you are planning to transfer to a sociology/social work program at a four-year college or university. **It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend.**

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
Group Ia elective.....	4
Group Ib elective.....	4
Group Ic elective	3, 4 or 5
Group II Social Science electives.....	6
Group III Humanities electives.....	9
Sociology or General electives	24/25

The following Sociology classes are offered at Lake Michigan College:

Sociology 101, Principles of Sociology.....	3
Sociology 201, Modern Social Problems.....	3
Sociology 202, Marriage and the Family	3
Sociology 204, The Field of Social Work.....	3
Sociology 205, Race and Ethnic Relations	3
Sociology 210, Sociology of Aging	3
Sociology 250, Introduction to Social Science Research.....	3

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Ferris State University
Grand Valley State University
Michigan State University
Western Michigan University
University of Michigan

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

The discipline of Sociology is concerned with the social and cultural life of humans. Sociologists study the organization, functions, and problems of human societies and groups. The dynamics of human relationships are of primary interest along with the analysis of culture, social systems, socialization, social classes, poverty, minorities and majorities, population, social institutions, and social change.

Occupations in sociology/social work usually require a bachelor's or master's degree. The Sociology discipline at Lake Michigan College provides you with the first two years of a bachelor's program. You should work with your advisor to check with four-year colleges and universities regarding specific requirements. **There is a 61-credit degree requirement needed for graduation.**

Theatre

Associate in Arts Degree - TRANSFER PROGRAM Program Code 046

Advisor: TBD

Sample Transfer Program

Meeting the degree requirements for the Associate in Arts degree is the most typical curriculum if you are planning to transfer to a Drama program at a four-year college or university. Participation in college theatre productions and the associated classes is also expected. **It is essential that you consult with an academic advisor for the specific requirements of the college you plan to attend.**

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Group Ia elective.....	4
Group Ib elective.....	4
Group Ic elective.....	3, 4 or 5
Group II Social Science electives.....	6
Group III Humanities electives.....	9
General Electives.....	24/25

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

Lake Michigan College has worked with the following universities to develop program guides. These guides ensure that you can work toward a bachelor's degree without losing any credit earned at Lake Michigan College. For more information, see the program guides in the advising office.

Grand Valley State University
Michigan State University
Western Michigan University

If you are interested in attending a school not listed here, please work with an academic advisor to build a program that will meet the requirements of your chosen school.

About the Area of Study

Theatre courses help you develop an appreciation of the discipline as well as to expand your personal and professional enrichment through study in acting and stagecraft. The curriculum is comprised of courses dealing with dramatic theory and appreciation, design and technical theatre, and performance. Courses are open to all students.

Credits apply toward the Associate in Arts degree. If you are planning to transfer to a four-year school you should obtain degree requirements for the freshman and sophomore years at your selected school and consult with the Theatre advisor to plan your individualized program. **There is a 61-credit degree requirement needed for graduation.**

Veterinary Medicine (Pre)

Associate in Science Degree - TRANSFER PROGRAM Program Code 089

Advisor: Dr. Susan Lentz, (269) 927-8100 ext. 5076, lentz@lakemichigancollege.edu

Sample Transfer Program

The following is a sample college transfer program. **It is essential that you work with an academic advisor to develop an individualized program that meets the specific requirements of the college you plan to attend.**

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Courses	Credit Hours
English 101, English Composition.....	3
English 102, English Composition, or English 103, Technical Writing.....	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
Mathematics 151, Calculus I.....	5
Biology 111, Principles of Biology I.....	4
Biology 112, Principles of Biology II.....	4
Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II.....	4
Physics 101, General Physics I.....	5
Physics 102, General Physics II.....	5
Group II Social Science electives.....	6
Group III Humanities electives.....	9
General Electives.....	5/6

* Transferring students are encouraged to take PHED 212 or PHED 214.

Transfer Opportunities

If you are planning to transfer to a four-year college, you should become familiar with your chosen school's requirements. See your advisor for assistance in planning your individualized program of study.

About the Area of Study

You may transfer to Michigan State University to complete your Pre-Veterinary requirements after one or two years at Lake Michigan College. The typical pattern is to complete your general education and basic science requirements and then transfer at the junior level.

The Medical College Admission Test (MCAT) generally is completed at the beginning of the junior year. Application for transfer and preparation for the MCAT should begin during the sophomore year. Consult the faculty advisor for specific guidance. **There is a 61-credit degree requirement needed for graduation.**

Water Purification Technology

1+2 with Bay de Noc Community College Program Code 383

Associate in Applied Science Degree from Bay de Noc Community College

Advisor: Charles Olszewski, (269) 927-8100, ext. 5044, olszewskic@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree Requirements

Credit Hours

First Year Courses at Lake Michigan College

English 101, English Composition.....	3
English 103, Technical Writing.....	3
Mathematics 110, Technical Mathematics.....	4
Chemistry 111, General Chemistry I.....	4
Chemistry 112, General Chemistry II.....	4
Electronics 100, DC Electricity.....	4
Physics 101, General Physics I, or Physics 110, Technical Physics.....	5/4
Political Science 101, National Government, or Political Science 102, State Governments.....	3

Major requirements at Bay de Noc Community College

WT 110, Water and Wastewater Treatment Plants.....	3
WT 120, Water and Wastewater Treatment Plants.....	3
WT 230, Sanitary Microbiology.....	4
WT 255, Mechanical Maintenance.....	3
WT 240, Water Chemistry.....	5
WT 250, Water Chemistry.....	5
WT 270, Applied Hydraulics.....	4
WT 260, Water Utility Management.....	3
WT 220, Industrial Water/Water Treatment.....	3
Co-op Education.....	6

About the Program

Lake Michigan College offers the first year of a two-year Associate in Applied Science Degree in Wastewater Purification Technology in cooperation with Bay de Noc Community College, Escanaba, MI. This program provides specialized training in water/wastewater treatment theory and application.

You will enroll simultaneously at Lake Michigan College and Bay de Noc Community College, take the first year of courses at Lake Michigan College, then transfer to Bay de Noc for the final year, completing the program with a two-month period of on-the-job training in the hometown area.

Upon graduation you will be eligible for positions in operations as equipment operators, in the laboratory, or in management of potable or wastewater plants.

Associate's Degree

Upon completion of the program, you will receive an Associate in Applied Science degree through Bay de Noc Community College. You will also be eligible to sit for the state exam for Municipal Water and Wastewater Operator Certification through the Michigan Department of Environmental Quality.

Sample Course Sequence

An advisor will help you make necessary changes to this recommended sequence.

Associate's Degree Program

Semester 1	Semester 2
MATH 110	ENGL 103
ENGL 101	POSC 101 or
CHEM 111	POSC 102
ELEC 100	CHEM 112
	PHYS 101 or
	PHYS 110

Year 2 taken at Bay de Noc Community College in Escanaba, MI.

Occupational Study Programs

Non-Degree and Speciality Certificate Areas of Study

Emergency Medical Services

Program Code 211

Advisor: TBD, (269)927-8100 ext. 5092

The Emergency Medical Services courses train personnel for positions in pre-hospital emergency care for sick and injured individuals. A certificate of completion is awarded for each course. Successful completion of a course will allow the student to sit for the appropriate licensing examination for emergency medical technician offered by the Michigan Department of Consumer and Industry Services and/or the National Registry of Emergency Medical Technicians, Inc.

Not all courses are offered every semester. Contact the Health Sciences Office or the Schedule of Classes for current offerings. Courses may be offered at the Napier Avenue Campus or at other sites.

Course

Credit Hours

Emergency Med. Tech. 162, Basic Emergency Medical Technician.....	8
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Health

Advisor: TBD, (269) 927-8100 ext. 5092

Health courses are offered to provide you with an opportunity to become certified in basic health related skills. Courses are approved by the American Red Cross.

Courses

Credit Hours

Health 165, Standard First Aid and Personal Safety.....	2
Health 166, CPR/AED.....	1

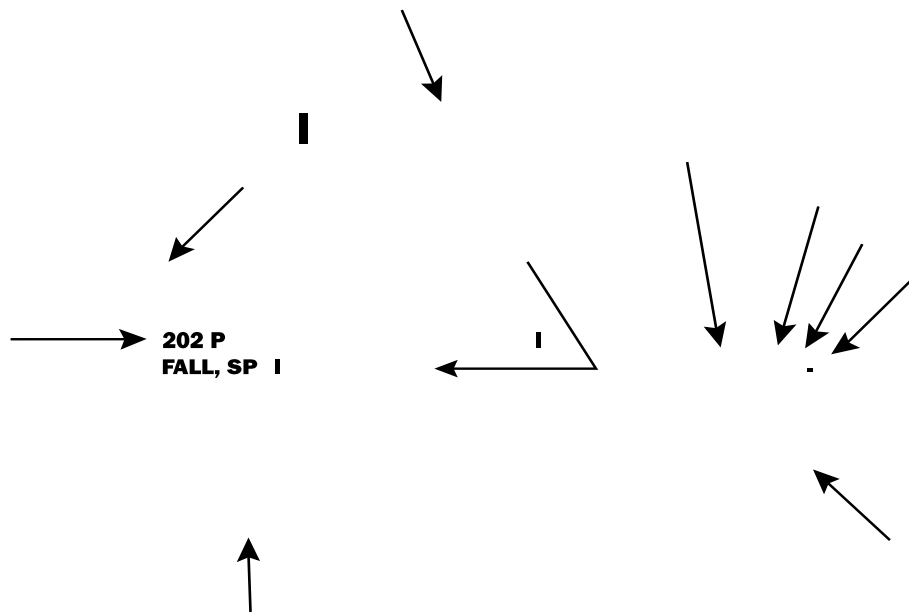


Course Descriptions

This section contains a description of all course offerings. In using this course list, students should note the following:

How to Read Course Descriptions

BU



English, mathematics, and reading basic skills prerequisites for College classes are listed in the course description section of the College catalog as E-English, M-Mathematics, or R-Reading.

Students who assessment scores do not meet or exceed levels set for E, M, R prerequisites must successfully complete appropriate Transitional Studies courses prior to registration in courses with these prerequisites.

- Concurrent - may take course(s) at the same time
- Co-requisite - must take course(s) at the same time
- Equivalent - determined by department, chair, or full-time faculty

ART (ART)

NOTE: For a student to work in a specific medium, particular attention should be given to the three levels of study referred to in this list:

Watercolor: 105, 106, 254

Drawing: 122, 123, 260

Painting: 115, 116, 251

Ceramics: 120, 121, 252

101 ART APPRECIATION I, FALL 3(3-0)

Introduction to appreciation of visual arts. Study of artistic styles that explains ideas about visual art and architecture through discussion and field trips. Open to all students.

102 ART APPRECIATION II, SPRING 3(3-0)

Explores visual arts through studio projects, slides, lectures and discussion. Work in basic elements of design and form organization through various two-dimensional and three-dimensional media.

Open to all students.

105 WATERCOLOR I, SPRING 2(0-4)

Survey of painting techniques and issues of compositional problem solving through emphasis on elements of design--line, value, texture, color, form and space. Open to all students.

106 WATERCOLOR II, SPRING 2(0-4)

Advanced study in watercolor through investigation of elements of design for personal expression. Open to all students.

Prerequisite: ART 105

107 BASIC PHOTOGRAPHY, FALL, SPRING FEE, 3(2-4)

Focus on direct experience in materials, techniques, processes and ideas fundamental to black-and-white photography. Working knowledge of camera, light metering, flash, black-and-white films, film development, darkroom chemistry, photographic papers, printing techniques and mounting prints. Discussion of historical background and current developments. Open to all students.

108 INTERMEDIATE PHOTOGRAPHY, FALL, SPRING FEE, 3(2-4)

Explores materials, techniques, processes and ideas of advanced and experimental black-and-white photography. Working knowledge of Kodalith high-contrast orthochromatic film used for production of silver experimental processes, infrared film, photo-silkscreen, advanced studio lighting techniques and composition. Open to all students.

Prerequisite: ART 107

109 BASIC DESIGN (2-D), FALL 3(0-6)

A thorough investigation of the elements of design (line, texture, value, color, etc.) and principles of form organization to establish the visual language of the two-dimensional arts. Open to all students. Required for Art majors.

110 BASIC DESIGN (3-D), SPRING 3(0-6)

Focus on visual fundamentals of three-dimensional design and study of form as means of expression. Open to all students. Required for Art majors.

111 ART EDUCATION, SPRING 3(2-2)

Explores wide range of visual experiences. Emphasis on understanding child growth and development against background of various painted, drawn and sculptured images. For students interested in teaching.

Prerequisites: E, R

115 PAINTING I, SPRING 3(0-6)

Fundamentals of form and their relationships in painting. Range of subject matter includes portrait and figure studies. Open to all students.

116 PAINTING II, SPRING 3(0-6)

Further study in structural concerns of painting. Emphasis on discipline and integration of personal expression through principles of form, organization, movement, repetition, proportion, balance, etc. Open to all students.

Prerequisite: ART 115

120 CERAMICS I, FALL, SPRING FEE, 3(0-6)

Focus on materials, tools, and special equipment used in working with clay. Investigation of firing procedures, preparation of clay and glazes, and fundamentals of throwing pottery on wheel. Open to all students.

121 CERAMICS II, FALL, SPRING FEE, 3(0-6)

Advanced course in study of clay. Hand-building and/or wheel-throwing problems according to individual interests. Experiments in glazing. Open to all students.

Prerequisite: ART 120

122 DRAWING I, FALL, SPRING 3(0-6)

Explores the fundamentals of drawing. Investigation of the elements of design and other ideas underlining a successful drawing. Includes drawing portraits. Open to all students. Required for Art majors.

123 DRAWING II, FALL, SPRING 3(0-6)

Continued study in drawing. Emphasis on development of personal expression through use of line and value. Open to all students. Required for Art majors.

Prerequisite: ART 122

200 HISTORY OF ART I, FALL (ODD YEARS) 3(3-0)

Lecture course that discusses a historical survey of architecture, sculpture and painting from Prehistoric Period to Gothic Period. Includes study of Egyptian, Greek, Roman and Romanesque art. Open to all students.

Prerequisites: E, R

201 HISTORY OF ART II, FALL (EVEN YEARS) 3(3-0)

Lecture course that discusses a historical survey of architecture, sculpture and painting from Renaissance to Twentieth Century. Focus on important aspects of Baroque, Neo-classical and Romantic art culminating in Modern Movement. Open to all students.

Prerequisites: E, R

202 TWENTIETH-CENTURY ART, SPRING 3(3-0)

Lecture course that addresses contemporary trends in painting and sculpting. Lectures supplemented with slides and videos engage students with major movements and developments in Europe and United States. Includes study of Impressionism and Post-Impressionism as foundations for understanding twentieth-century ideas. Open to all students.

Prerequisites: E, R

203 20th CENTURY ART HISTORY: 1900-1945, SPRING, EVEN YEARS 3(3-0)

Art from 1900 to 1945 will be discussed in terms of its origins, trends, and the contributions of culture and technology. Major developments to be covered include Fauvism, Cubism, Expressionism, Dadaism, Surrealism, and Abstract Expressionism. Photography and Architecture will be discussed, too. Open to all students.
Prerequisite: None.

204 20TH CENTURY ART HISTORY 1945-PRESENT, SPRING, (ODD YEARS) 3(3-0)

Major developments in Art from 1945 to Present, including Abstract Expressionist, Pop Art, Minimalism, Conceptual Art, Photo Realism, Neo-Expressionism, and the Post-Modern era are discussed alongside the associated disciplines of Photography, Architecture and Graphic Design. Open to all students.
Prerequisite: None

209 PRINTMAKING I, (KRASL) 2(0-4)

Basic printmaking techniques. Various media explored such as woodcut, intaglio and silk screen. Open to all students.

210 PRINTMAKING II, (KRASL) 2(0-4)

Advanced focus on continued work with various printing techniques. Open to all students.
Prerequisite: ART 209

212 SCULPTURE I, FALL FEE, 3(0-6)

Basic sculpture forming techniques; investigation of form relationships through use of clay and other media. Emphasis on developing skills in manipulation of materials. Open to all students.

213 SCULPTURE II, FALL FEE, 3(0-6)

Advanced exploration of ideas and materials used in sculpture. Choice of wood, metal, or plaster for study. Emphasis on developing skills in articulating form. Open to all students.
Prerequisite: ART 212

251 STUDIO PROBLEMS: PAINTING, SPRING 3(0-6)

Advanced study in acrylic and/or oil painting, emphasis on development of technical skills according to individual student interest.
Prerequisites: ART 115, ART 116

252 STUDIO PROBLEMS: CERAMICS, FALL, SPRING FEE, 3(0-6)

Advanced study in ceramics with more individualized directions. Hand-building and wheel-thrown objects as well as experiments with glaze compounds.
Prerequisites: ART 120, ART 121

253 STUDIO PROBLEMS: SCULPTURE, FALL FEE, 3(0-6)

Advanced study in sculpture, with emphasis on improving individual directions in clay, plaster, metal, or wood.
Prerequisites: ART 212, ART 213

254 STUDIO PROBLEMS: WATERCOLOR, SPRING 2 (0-4)

Advanced study in watercolor to explore color and form according to individual interests.
Prerequisites: ART 105, ART 106

255 STUDIO PROBLEMS: PRINTMAKING, (KRASL) 2(0-4)

Advanced study in printmaking techniques to investigate printing methods such as woodcut, silk screen, and intaglio.
Prerequisites: ART 209, ART 210

260 STUDIO PROBLEMS: DRAWING, FALL, SPRING 3(0-6)

Advanced course in drawing. Exploration of different directions of expression through personal experimentation.
Prerequisites: ART 122, ART 123

BIOLOGY (BIOL)

101 BIOLOGICAL SCIENCE, FALL, SPRING, SUMMER FEE, 4(3-2)

Introduction to basic principles and concepts of biology as well as related laboratory experiences. Areas of emphasis include ecology, evolution, unity and diversity of life, molecular biology, genetics, cell biology, biotechnology and behavior. NOTE: Students with two (2) or more years of high school biology are recommended to take BIOL 111, BIOL 112, or BIOL 204.
Prerequisites: E, R, M

108 BASIC HUMAN ANATOMY & PHYSIOLOGY, FALL, SPRING FEE, 4(3-2)

A lecture and laboratory course covering the structure and function of cells, organs and systems within the human body. Online and classroom lectures are used to present core content. Hands-on laboratories, including student-led instruction, are designed to help students understand and apply selected principles of cell biology, anatomy and physiology. Case studies are designed to help make connections between knowledge of anatomy & physiology and real-world situations. Testing outside scheduled class time required.
Prerequisites: E, M, R

111 PRINCIPLES OF BIOLOGY I, FALL 4(3-3)

Emphasizes cell chemistry, cell structure and function, metabolism and energy, molecular biology, genetics, and biotechnology, as well as related laboratory experiences. For biology majors and minors, or students planning to transfer to pre-professional programs requiring biology.
Prerequisites: E, M, R, BIOL 101 (or recommend 2 yrs of high school biology, or one year of high school biology and one year of chemistry all with a grade of C or better)

112 PRINCIPLES OF BIOLOGY II, SPRING FEE, 4(3-3)

Emphasizes diversity of organisms, animal and plant structure, animal behavior, and ecology. For Biology majors and minors, or those students planning to transfer to pre-professional programs requiring Biology. Includes a three-hour laboratory experience per week. Students with two years of high school biology, or one year of high school biology and one year of chemistry will serve as BIOL 101 prerequisite.
Prerequisites: E, M, R, BIOL 101

170 LIFE SCIENCE FOR ELEMENTARY TEACHERS, FALL 3(2-3)

The first of a two course laboratory based biology sequence designed for prospective elementary school science teachers. This course is intended to acquaint children with the important concepts of biology and why it is important for students to learn biology and how to help them become independent and creative investigators of nature. This course will explore the practice and science rather than a body of revealed knowledge to be memorized. This course is specifically designed to transfer to Western Michigan University's Elementary Education program and may not transfer to other institutions.

204 ENVIRONMENTAL BIOLOGY, FALL 4(3-3)

Study of basic concepts and applications of ecology as it relates to humans. Emphasis on basic ecological concepts and how they relate to current environmental problems. Laboratory work includes field and laboratory studies and field trips to areas of ecological and environmental interest.

Prerequisites: E, M, R, BIOL 101 or two years high school biology, or one year high school biology and one year in physical science.

205 HUMAN ANATOMY, FALL, SPRING, SUMMER 4(3-2)

A lecture and laboratory course in which the human body is studied at the histological and gross levels of structure. Online and classroom lectures in conjunction with hands-on laboratories are used to present core content. Case studies are designed to help students apply their knowledge of human anatomy to real-world situations. Testing outside scheduled class time is required. Two years of high school biology within the last 5 years may substitute for the biology prerequisite.

Prerequisites: E, R, BIOL 101 or BIOL108

206 PRINCIPLES OF HUMAN PHYSIOLOGY, FALL, SPRING, SUMMER 4(3-3)

A lecture and laboratory course covering the basic principles and concepts of human physiology. Online and classroom lectures are used to present core content. Computer simulations and hands-on laboratories are integrated with discussions and provide opportunity to apply basic physiological principles. Case studies are designed to help students make connections between knowledge of physiology and real-world situations. Testing outside scheduled class time required.

Prerequisites: E, M, R, BIOL 205, CHEM 101 or CHEM 105 or equivalent.

210 MICROBIOLOGY, FALL, SPRING FEE, 4(3-3)

This is a basic microbiology course that introduces students to the principles of microbiology with an additional emphasis on health career applications. Instructor and student-led discussion sessions present the principles of microbiological morphology, physiology, reproduction and pathology, with special attention given to human disease. Laboratory exercises are integrated with discussion sessions and develop standard microbiology lab skills in the identification, culture, control, and assay of microorganisms.

Prerequisites: E, M, R, BIOL 101 or equivalent, CHEM 101 or CHEM 105 or equivalent.

212 GENETICS, SPRING FEE, 4(3-3)

This discussion based course (both instructor and student-led) includes the following sections: Mendelian genetics, DNA and chromosomes; gene transmission; linkage and recombination; genes and enzymes; the genetic code; mutations and variations; recombinant DNA; introduction to genomics; gene regulation; developmental, population, quantitative, and evolutionary genetics. Lab experiences include statistical analysis, molecular techniques such as polymerase chain reaction (PCR) and gel electrophoresis, RNA interference in *Caenorhabditis elegans*, and various computer exercises in bioinformatics.

Prerequisites: E, M, R, BIOL 101 or equivalent.

270 LIFE SCIENCE FOR THE ELEMENTARY TEACHER II, SPRING 3(2-3)

The second of a two course laboratory based biology sequence designed for prospective elementary school science teachers. This course is intended to acquaint the student with the important concepts of biology and why it is important for children to learn biology and how to help them become independent and creative investigators of nature. This course will explore the practice of science rather than a body of revealed knowledge to be memorized.

Prerequisites: E, R, M

BUSINESS ADMINISTRATION (BUSA)

100 BUSINESS MATHEMATICS, FALL, SPRING 3(3-0)

Fundamentals of addition, subtraction, division and multiplication with whole numbers, common fractions, percentage, and their application in business transactions.

Prerequisites: MATH 095

101 BUSINESS ACCOUNTING I, FALL, SPRING 3(3-0)

Accounting course for secretaries, small-business accountants and owners, and those interested in the double-entry accounting system. Work includes development of basic principles underlying accounting procedures and discussion of techniques and records used in analyzing, classifying, recording, summarizing, and reporting business transactions. Laboratory materials, a practice set and use of computers incorporated.

Prerequisites: M, R

103 INTRODUCTION TO BUSINESS, FALL, SPRING 3(3-0)

Survey, orientation, and background course acquaints students with role of business enterprise. Deals with various areas of business and designed to help students decide field of specialization.

Prerequisite: R

104 SALESMANSHIP, ON DEMAND 3(3-0)

Principles of sales-force organization, operation, and selling techniques. Special emphasis given to personal selling and its part in marketing structure.

Prerequisites: E, M, R

105 PRINCIPLES OF RETAILING, ON DEMAND 3(3-0)

Overview of field of retailing. Covers types of institutions, store location, fixtures and equipment, store organization, and retail sales.

Prerequisites: E, M, R

115 PRINCIPLES OF CUSTOMER SERVICE, ON DEMAND 3(3-0)

Applies basic business knowledge and skills to develop customer-focused strategies necessary to maintain competitive edge in the business world. Emphasizes fundamentals, skill-building and practical ideas to keep satisfied customers.

Prerequisite: BUSA 103

116 FUNDAMENTALS OF QUALITY CUSTOMER SERVICE, ON DEMAND 1(1-0)

Defines QCS, discusses importance, describes necessary infrastructure and helps students recognize moments of truth. Gain understanding of customer-focused company.

Prerequisite: BUSA 103

117 CUSTOMER COMMUNICATION, ON DEMAND 1(1-0)

Effective communication skills are the basis of customer service programs. Students learn active listening skills, assertive verbal communication and impact of non-verbal language in the communication process. Write policies and procedures that support quality customer services.

Prerequisite: BUSA 103

118 SPECIAL CUSTOMER SERVICE SKILLS, ON DEMAND 1(1-0)

Elderly customers and customers with physical disabilities require sensitivity and special attention. Overcome common feelings of awkwardness and learn do's and don'ts in providing customer services.

Prerequisite: BUSA 103

150 JOB SEARCH SEMINAR, FALL, SPRING, ON DEMAND 1(1-0)

Introduction to techniques of locating and obtaining employment. Includes practice letter- and resume-writing skills and discussion of interviewing skills. Utilizes library and outside resources.

Prerequisites: E, R

151 MARKETING CAREER DEVELOPMENT, ON DEMAND 1(1-0)

Enhance value of education in marketing, merchandising and management which contributes to occupational competence. Promote appreciation for responsibilities of citizenship in free, competitive enterprise system. For students preparing for careers in management, sales, advertising, finance, retailing, wholesaling, insurance, real estate, fashion merchandising and other marketing-oriented occupations. Can be repeated up to four semester hours.

Corequisite: Membership in SIFE

201 PRINCIPLES OF ACCOUNTING I, FALL, SPRING 4(4-1)

Basic theoretical framework of accounting presented to enable students to understand accounting principles and concepts as developed for sole proprietorship and partnership. Integration of microcomputers enables students to experience computers in accounting.

Prerequisites: E, M, R

202 PRINCIPLES OF ACCOUNTING II, FALL, SPRING, SUMMER 4(4-1)

Continuation of BUSA 201. Emphasis on corporation's management controls and use of accounting data. Integration of microcomputers enables students to use computer accounting programs to generate financial statements and learn to interpret these statements as a basis for business decisions.

Prerequisites: E, M, R, BUSA 201 in previous 3 years with C or better

203 PRINCIPLES OF ECONOMICS (Macro), FALL, SPRING, SUMMER 3(3-0)

Emphasizes general principles of macroeconomics. Topics include supply and demand, inflation, unemployment, economic growth, business cycles, money, taxes, government spending, gross national product, price indexes, technology, wages, fiscal and monetary policy, interest rates, deficit and national debt, and international trade.

Prerequisites: E, M, R

204 PRINCIPLES OF ECONOMICS (Micro), FALL, SPRING, SUMMER 3(3-0)

Emphasizes general principles of microeconomics. Topics include supply and demand, consumer behavior, cost theory, market structures, pricing factors of production, unions, poverty, government regulation and international trade.

Prerequisites: E, M, R

205 BUSINESS LAW I, FALL, SPRING 3(3-0)

Promotes understanding of laws covering business transactions encountered in everyday life and small businesses. Areas covered include simple contracts and negotiable instruments.

Prerequisites: E, R

206 BUSINESS LAW II, SPRING 3(3-0)

Basic legal matters pertaining to sales, real property and lease, and partnerships and corporations.

Prerequisites: E, R, BUSA 205 or permission of instructor

207 SMALL BUSINESS MANAGEMENT, FALL 3(3-0)

For small business managers and entrepreneurs. Analytical approach embodies sound basic principles of good management. Business functions of sales, production, procurement, personnel, finances and managerial functions of planning, organizing, actuating and controlling. Actual case problems related to small business management.

Prerequisites: E, R

207A ENTREPRENEURSHIP A, FALL 1 (1-0)

This course provides an examination of an individual's opportunity to achieve their entrepreneurial goals through understanding entrepreneurship and its relation to small business in the economy. Examination of business opportunities as they relate to small business success factors and their place within the local and global markets will be evaluated. The process of understanding and developing a Business Plan will be analyzed in respect to the goal of obtaining financial assistance. Types of business ownership will be studied as well as their place in the economy as determined by market analysis.

Prerequisites: E,M,R

207B ENTREPRENEURSHIP B, FALL 1 (1-0)

This course continues evaluating the entrepreneurial opportunities discussed in track A by exploring family business, franchising and business start up or purchase. Further development of the Business Plan including financial data and how it is delivered will be discussed. Continued examination of selection of organizational format and the management team will be included. The marketing plan will be refined so that the financial issues will be understood within the parameters of selection of funding sources and facilities location. Customer loyalty and product strategies such as pricing, promotion, and distribution will be examined.

Prerequisites: E,M,R

- 207C ENTREPRENEURSHIP C, FALL** **1 (1-0)**
 This course continues evaluating the entrepreneurial opportunities discussed in tracks A & B by exploring the ethical issues faced by new business owners and their implications concerning success. Growth and its management will be examined regarding the aspects of human resources, information technology, quality and operations. This class will provide an analysis of assessing performance through financial evaluation, risk and asset management. Opportunities for the future including the sale of the business entity will be discussed.
Prerequisites: E, M, R
- 208 ADVERTISING AND SALES PROMOTION, SPRING** **3(3-0)**
 Analysis of principles and practices of advertising and promoting merchandise. Study of organization and sales practices within industry and business.
Prerequisites: E, M, R
- 209 PRINCIPLES OF MARKETING, FALL, SPRING, SUMMER** **3(3-0)**
 Analysis of the marketing task, various essential functions performed in marketing and numerous and varied types of institutions performing the role of marketing.
Prerequisites: E, M, R
- 210 BUSINESS CORRESPONDENCE, FALL, SPRING** **3(3-0)**
 Principles of business letter writing. Provides understanding of components of written communications that influence people toward desired results: clear thinking, effective application of psychology and correct use of language.
Prerequisite: E, R
- 211 PRINCIPLES OF MANAGEMENT, FALL, SPRING** **3(3-0)**
 Principles of management and organization in modern business and industry. Deals with standards, methods and problems in management.
Prerequisites: E, M, R
- 212 ACCOUNTING APPLICATIONS ON COMPUTERS, SPRING, ODD YEARS** **3(2-2)**
 Computer applications for accounting including general ledger, accounts receivable, accounts payable, depreciation and payroll and spreadsheet accounting.
Prerequisites: E, M, R, CIS 108, BUSA 201 or BUSA 101, BUSA 202 or BUSA 102 (BUSA 202 or BUSA 102 may be taken concurrently with this class)
- 213 COST ACCOUNTING I, SPRING** **3(3-0)**
 Fundamentals of cost accounting procedures including job cost principles and practices. Basic course in manufacturing accounting and problem solving.
Prerequisites: E, M, R, BUSA 201, BUSA 202 in previous 3 years with C or better
- 214 COST ACCOUNTING II, SPRING** **3(3-0)**
 Continuation of BUSA 213. Major topics include budgeting procedures, flexible budget, standard costs, gross profit analysis, direct costing, break even analysis, differential and comparative cost, capital budgeting and control, profit performance measurements and linear programming.
Prerequisites: E, M, R, BUSA 201, BUSA 202, BUSA 213 in previous 3 years with C or better
- 216 BUSINESS STATISTICS, FALL, SPRING** **3(3-0)**
 Statistical decision-making surveyed. Topics include sampling techniques, tabular and graphical data, measures of central tendency and variability, simple probability, probability distributions (binomial, normal, t, chi-square and F), Central Limit Theorem, correlation and regression, estimation, hypothesis testing and analysis of variance.
Prerequisites: E, R, MATH 128 or MATH 135 with C or better or equivalent
- 218 INTERMEDIATE ACCOUNTING I, FALL** **3(3-0)**
 Definition and valuation of current assets and liabilities, income measurements, balance sheet, cash flow, inventory valuation methods, plant assets, intangible assets and present-value methods.
Prerequisites: E, M, R, BUSA 201, BUSA 202 in previous 3 years with C or better
- 219 INTERMEDIATE ACCOUNTING II, SPRING** **3(3-0)**
 Stockholder's equity, treasury stock, long-term liabilities, income tax allocation, investments, statement of cash flow, analysis of financial statements, price level changes, pension fund provisions and leases.
Prerequisites: E, M, R, BUSA 201, BUSA 202, BUSA 218 in previous 3 years with C or better
- 220 ORGANIZATIONAL BEHAVIOR, FALL, SPRING** **3(3-0)**
 This course provides an examination of individual, interpersonal, group, and organization processes faced by employees. Current theory, research, and practice regarding variables that influence human behavior are discussed. Emphasis is placed on learning relevant to goal setting, managing change, team processes, reward structures, human productivity, and career management in organization settings.
Prerequisites: E, M, R
- 224 INCOME TAX ACCOUNTING, FALL** **3(3-0)**
 Federal and state income tax laws as applied to individual, partnership and corporation returns.
Prerequisites: E, M, R, BUSA 201 in previous 3 years with C or better
- 225 PERSONNEL MANAGEMENT, ON DEMAND** **3(3-0)**
 Organizational and administrative role of personnel in organizations and internal and external factors that influenced evolution of personnel.
Prerequisites: E, M, R
- 261 DISTRIBUTIVE EDUCATION CO-OP I, FALL, SPRING** **FEE, 3(1-15)**
 Classroom and supervised on-the-job training in approved jobs obtained in retailing, wholesaling, marketing, or service outlets. Includes classroom lectures, research and work experience in related business organization. Requires minimum 15 hours of work per week. Application must be placed with coordinator to participate in class.
Prerequisites: E, M, R, advanced standing for marketing and retailing majors, 2.00 GPA or higher in all previous college work, approval of Co-op Coordinator and signature of marketing program advisor.
- 262 DISTRIBUTIVE EDUCATION CO-OP II, SPRING** **FEE, 3(1-15)**
 For those students who successfully complete BUSA 261. Requires minimum 15 hours of work per week. Application must be placed with coordinator to participate in class.
Prerequisites: E, M, R, BUSA 261 or equivalent

263 MANAGEMENT TRAINEE CO-OP I, FALL, SPRING FEE, 3(1-15)

Classroom and cooperative training includes supervised, on-the-job managerial experience in business and industry. Requires minimum 15 hours of work per week. Application must be placed with coordinator to participate in class.

Prerequisites: E, M, R, advanced standing in management trainee program, 2.00 GPA or higher in all previous college work, approval of Co-op Coordinator and signature of Management Program Advisor.

264 MANAGEMENT TRAINEE CO-OP II, SPRING FEE, 3(1-15)

For students who successfully complete BUSA 263. Requires minimum 15 hours of work per week. Application must be placed with coordinator to participate in class.

Prerequisites: E, M, R, BUSA 263 or equivalent, approval of Co-op Coordinator and signature of management program advisor.

265 ACCOUNTING CO-OP I, FALL, SPRING FEE, 3(1-15)

Students work in approved accounting position to gain on-the-job training. Requires minimum 15 hours of work per week. Each student meets one hour per week with advisor in related class.

Prerequisites: E, M, R, completion of all first year courses in Accounting program with minimum GPA of 2.00, approval of Co-op coordinator and signatures of Accounting program advisor and one other full-time business administration instructor

266 ACCOUNTING CO-OP II, SPRING FEE, 3(1-15)

For students who successfully complete BUSA 265. Requires minimum 15 hours of work per week. Application must be placed with coordinator to participate in class.

Prerequisites: E, M, R, BUSA 265, approval of Co-op Coordinator and signatures of Accounting program coordinator and one other full-time business administration instructor

CHEMISTRY (CHEM)

Full two-year sequence:

1st year - CHEM 111 & CHEM 112

2nd year - CHEM 203 & CHEM 204

These four courses transfer into pre-professional programs (medicine, chemistry, dentistry, engineering, etc.).

101 INTRODUCTORY CHEMISTRY I, FALL, SPRING, SUMMER FEE, 4(3-3)

For students with little or no background in chemistry. Concepts of energy and matter, properties of gases, liquids and solids, structure of atoms, periodic table, chemical bonds, formulas and equations, stoichiometry and solutions. Laboratory includes introduction to qualitative analysis. Credits apply toward Associate Degree. May transfer for science credit but usually not as General Chemistry (depends on specific school and program).

Prerequisites: E, M, R, one year of high school algebra, with C or better

102 INTRODUCTORY CHEMISTRY II, (ON DEMAND) FEE, 4(3-3)

Continuation of CHEM 101 with following units: thermochemistry, chemical equilibrium, acids and bases, oxidation and reduction, electrochemistry, metals production, properties of selected elements, organic and biochemistry. Laboratory includes analysis and synthesis. Suitable for 2-year Health Science programs.

Prerequisites: E, M, R, CHEM 101

104 FUNDAMENTALS OF GENERAL, ORGANIC AND BIOCHEMISTRY, FALL, SPRING FEE, 4(3-3)

Intense introductory course that integrates topics from general, organic and biochemistry and is geared toward Allied Health students. Measurements, conversions, atomic structure, bonding, states of matter, chemical reactions, stoichiometry, gas laws, acid/base chemistry, nuclear chemistry, functional groups, organic/biochem structures, isomers, nomenclature, enzymatic activity, and basic biochemical/metabolism reactions are all topics covered. Includes integrated laboratory experiences.

Prerequisites: E, R, MATH 125 or pass algebra proficiency test

106 FUNDAMENTALS OF ORGANIC AND BIOLOGICAL CHEMISTRY, SPRING 4(3-3)

Includes brief introduction to organic chemistry as it applies to biochemistry, including structural formulas and functional groups. Covers structure, properties and metabolism of carbohydrates, lipids, proteins and nucleic acids. Other topics include enzymes, nutrition and biochemical energetics.

Prerequisites: E, M, R, CHEM 101 or CHEM 105

111 GENERAL CHEMISTRY I, FALL FEE, 4(3-3)

With adequate background in beginning chemistry, problems solved in these fields: inorganic, physical, analytical and organic. Laboratory exercises illustrate general principles. Course meets transfer requirements toward B.S. degrees in sciences.

Prerequisites: E, M, R, CHEM 101 or two years high school mathematics and one year high school chemistry or CHEM 105

112 GENERAL CHEMISTRY II, SPRING FEE, 4(3-3)

Continuation of CHEM 111 with emphasis upon ionic equilibria. Laboratory exercises involve solubility product, potentiometric titration and methods of quantitative analysis.

Prerequisites: E, M, R, CHEM 111

203 ORGANIC CHEMISTRY I, FALL FEE, 4(3-3)

Chemistry of compounds of carbon. Meets requirements for majors in chemistry, biological science, chemical engineering and health science. Includes nomenclature, structure, isomerism, synthesis, functional groups and mechanisms. Problems and laboratory work for each unit.

Prerequisites: E, M, R, CHEM 112 or CHEM 102 with consent of instructor

204 ORGANIC CHEMISTRY II, SPRING FEE, 4(3-3)

Continuation of CHEM 203. Includes additional functional groups and mechanisms plus introduction to biochemistry. Laboratory includes qualitative analysis and use of infrared spectrometer, gas chromatograph, polarimeter, refractometer.

Prerequisites: E, M, R, CHEM 203

COLLEGE LIFE STUDIES (CLS)

**100 COLLEGE & CAREER SUCCESS,
FALL, SPRING, SUMMER**

1(1-0)

Designed to increase student success by offering a comprehensive orientation to the Lake Michigan College experience. Students will be introduced to college web-based resources and services including Wavelink and Blackboard, technology-based program planning and transfer information, and library research databases. Additional topics include career/major decision-making, understanding college expectations, time management, effective study and learning strategies, and living and working in a diverse global society.
Pre-requisites: none

110 CAREER DECISION MAKING, FALL, SPRING **2(2-0)**

Realistic career decision making and planning important to any stage of life. Students learn career paths most appropriate now and in future. Students examine resources, values and abilities through testing and computerized search processes. Students identify three to five career opportunities appropriate to aptitude and skills. Not intended for transfer.

**115 CAREER SUCCESS STRATEGIES,
FALL, SPRING, SUMMER** **3(3-0)**

Increase career success by exploring and implementing real life strategies for employment/personal achievement. Job readiness skills and employer expectations examined. Identify personal strengths, evaluate areas needing improvement and explore applicable solutions. Examine self, time, conflict management, working collaboratively with others, accepting responsibility and using workplace communication skills through a systematic self-assessment process. Not intended for transfer.

216 STRESS MANAGEMENT, FALL, SPRING **2(2-0)**

This course assists the student in understanding the physiological responses to stress and assist in developing techniques for better stress management.

217 HEALTH ISSUES: SELF-ESTEEM, FALL, SPRING **1(1-0)**

Assists in growth in ability to love and care for oneself and others. Techniques practiced daily to enhance self-esteem and a variety of self-esteem issues presented.

COMMUNICATION (COMM)

**101 INTRODUCTION TO PUBLIC SPEAKING,
FALL, SPRING** **3(3-0)**

Beginning course in public speaking dealing with application of basic principles and practices of effective speaking. Coursework includes oral presentations and practical applications of speech communication theory.
Pre-requisites: E, R

COMPUTER INFORMATION SYSTEMS (CIS)

**100 INTRODUCTION TO COMPUTER LITERACY,
FALL, SPRING, SUMMER** **3(3-0)**

Introductory course for non-dataprocessing majors. Addresses following topics: history of computing, computer hardware, computer software, computers in business and society, and ethical issues. Students get hands-on use of application software packages.
Pre-requisites: E, M, R

102 BASIC COMPUTER LITERACY, FALL, SPRING **1(1-0)**

Addresses the following topics: history of computing, computer hardware, computer software, computers in business and society, and ethical issues in addition to basic computer operation and introduction to application packages. Minimal typing skills.
Pre-requisites: E,M,R

**106 INTRODUCTION TO OPERATING SYSTEMS,
FALL, SPRING, SUMMER** **3(3-0)**

Build a foundation of knowledge about Graphical User Interface that prepares for skilled use of operating systems. Topics include command line prompts, GUI fundamentals, modifying the desktop, file/document/folder management, customizing the desktop, communications, working with multimedia and maintaining the computer system.
Pre-requisites: E, M, R

**108 COMPUTER OPERATIONS - MICROCOMPUTING,
FALL, SPRING, SUMMER** **3(3-0)**

Provides experience in operating systems, word processing, electronic spreadsheet, database and graphic presentation software. Emphasis placed on practical use of application software. No prior computing knowledge required. Not designed for transfer.
Pre-requisites: E, M, R, Minimum typing skills

111 DATABASE CONCEPTS, FALL, SPRING **3(3-1)**

Database theory, applications and programming. Students use database management system software to create, use and modify database definitions, input screens, report formats, indices, queries and top link database files. Students design, code and debug database software.
Pre-requisites: E, M, R,

**117 INTRODUCTION TO GAME DESIGN THEORY,
FALL, SPRING** **3(3-0)**

This survey course is an interdisciplinary Core Topic that combines approaches from history, literature, media studies and design. The goal is to develop and refine a critical vocabulary for articulating the aesthetics of games. Games Studies offers insight into the textual analysis of game play, while established work on other media, such as literature, film, television, theater, and interactive arts provides a rich critical framework.
Pre-requisites: R, or instructor permission

118 BASIC WEB DESIGN, FALL, SPRING **3(3-0)**

Basic web page design will be covered. Developing and maintaining Internet and Intranet applications by introducing various aspects of the Web design process. Storyboarding, content management, design elements, navigational design, link management, database connectivity, scripting tools, search engines and indexing.
Pre-requisites: E,M,R, CIS 108 (or equivalent)

121 WINDOWS SKILLS, FALL, SPRING, SUMMER**1(0-1) OE/DE**

Fundamentals of Graphic User Interface and proper ways to solve GUI problems. Practical applications illustrate many new capabilities of graphical user/World Wide Web environment. Introductory course covering essential aspects of Graphic User Interface.

122 WORDPROCESSING SKILLS, FALL, SPRING, SUMMER**1(0-1) OE/DE**

Fundamentals of document construction and proper ways to solve document problems. Practical problems illustrate wordprocessing applications and capabilities of wordprocessing in graphical user/World Wide Web environment. Introductory course, covering essential aspects of wordprocessing.

123 SPREADSHEET SKILLS, FALL, SPRING, SUMMER**1(0-1) OE/DE**

Fundamentals of worksheet construction and proper ways to solve worksheet problems. Practical problems illustrate worksheet applications and capabilities of worksheets in graphical user environment. Introductory course, covering essential aspects of worksheets.

124 DATABASE SKILLS, FALL, SPRING, SUMMER**1(0-1) OE/DE**

Fundamentals of database construction and proper ways to solve database problems. Practical problems illustrate database applications and capabilities of database in graphical user environment. Introductory course, covering essential aspects of databases.

125 GRAPHIC PRESENTATION SKILLS, FALL, SPRING, SUMMER**1(0-1) OE/DE**

Fundamentals of presentation construction (projection devices, transparencies and 35mm slides) and proper ways to solve presentation problems. Practical problems illustrate presentation applications and capabilities of presentation graphics in graphical user environment. Introductory course, covering essential aspects of presentation graphics.

136 GAME DESIGN, FALL, SPRING**3(3-0)**

Principles and methodologies behind the rules and play of games. This Core Topic addresses the fundamental ideas behind the design of electronic and non-electronic games. It touches on relevant formal fields like systems theory, cybernetics and game theory. Game Design also includes basic interactive design, including interface design, information design and human/computer interaction. Perhaps most important for Game Design is a detailed study of how games function to create experiences, including rule design, play mechanics, game balancing, social game interaction and the integration of visual, audio, tactile and textual elements into the total game experience. More practical aspects of Game Design, such as game design documentation and play testing are also covered.

Prerequisites: CIS-117 or Instructors Permission, EMR

140 COMPUTER NETWORKING FUNDAMENTALS, FALL, SPRING**FEE, 3(2-2)**

This covers basic computer networking terminology, topologies, systems, protocols, devices and management. The ISO standards are covered. Emphasis is placed on peer-to-peer networking, media and cable installation standards, IP addressing including subnet masks and encapsulation. Students will create and secure a peer-to-peer networks containing both Windows 98, Windows 2000 and Windows XP computers and can differentiate between OS/NIC and network problems and overcome the OS problems. Students will create Windows XP networks, secure the network and create base line data.

Prerequisites: E,M,R, CIS 100 or CIS 106 or CIS 108.

145 COMPUTER PROGRAMMING - COBOL I, FALL**3(3-0)**

The COBOL programming language is the most widely used for business type applications. Students will design, code, compile, and execute programs addressing: program structure, documentation, standards, style, testing, debugging, input, output, repetitive processing, editing, and control break logic.

Prerequisites: E,M,R, CIS100, CIS251 or Previous Programming Experience

155 COMPARATIVE OPERATING SYSTEMS, FALL, SPRING**3(2-2)**

This course is designed for those students wishing to develop an understanding of current operation systems, their differences and similarities, user interfaces and application considerations. Given a PC install windows 2000, windows XP, Vista or Linux and access and change BIOS, configure users, and automatic back ups (data and system information/settings), demonstrate recovery from crashes, use the command line (shell), maximize the security of the PC, use system and administrative tools. This course is not intended for transfer.

Prerequisites: E,M,R, CIS100 or 106 or 108 or instructor approval.

156 PRACTICAL COMPUTER SECURITY, FALL, SPRING**3(2-2)**

The purpose of this course is to provide students with a comprehensive overview of computer and network security issues including the numerous types of attacks computers are vulnerable to, the types of attacker profiles, education, training and awareness regarding computer/network use, and the hardware and software defense solutions available. Covers topics from configuring personal virus detection to the function/operation of firewalls, VPNs, Access Control lists, etc. It is a practical course where students will gain an appreciation and better understanding of the terms, devices and software employed in securing computers and networks in homes, small businesses, and large businesses. This course meets general education requirement #1 Arts and Humanities and serves as an orientation to the CIS - Networking option.

Prerequisites: E,M,R, concurrently: CIS100 or CIS106 or CIS108 (with a grade of C or better for each course)

157 INTRODUCTION TO COMPUTER FORENSICS & INVESTIGATION, (ON-DEMAND)**3(3-0)**

The purpose of this course is to provide the student with a comprehensive understanding of computer forensics and investigation tools and techniques. You will learn what computer forensics and investigation is as a profession and gain an understanding of the overall investigative process. All major personal computer operating system architectures and disk structures will be discussed.

Prerequisites: R, Instructor permission

200 PC HARDWARE, FALL, SPRING 3(2-2)

Personal computer system operation, maintenance and repair. Includes keyboard, monitors, chassis and power supply, logic board, processors, drives and printers. Students use diagnostic software and hardware, specify and assemble computer systems. Prepares for the A+ Certification Examination.

Prerequisite(s): E,M,R, CIS 100 or CIS 106 or CIS108

201 CISCO - HEALTH INFORMATION NETWORKING, SPRING 3(2-2)

This course is the Cisco Academy Health Information networking course. Topics include: Basic information on healthcare settings, principles of security and privacy in healthcare, fundamentals of Information Technology in healthcare, fundamentals of electronic health records systems, basic information on medical practice workflows and how to adjust workflows for electronic medical record implementations, designing a network to support a medical group, securing a network for a medical group, and troubleshooting a network for medical group.

Prerequisite: CIS228 with a C or better.

208 ADVANCED MICRO APPLICATIONS, SPRING 3(3-0)

Advanced experience in office productivity software. Topics include word processing, spreadsheets, databases, presentation graphics, and topics of current interest. Emphasis on practical use of application software in business environment. Not intended for transfer.

Prerequisite(s): E, M, R, CIS 108 (or equivalent)

219 PROFESSIONAL WEB DESIGN, SPRING 3(2-2)

A skills course to help students refine the mechanics of CIS-118 Basic Web Design. Current advanced topics will be covered to help students enhance web pages. Advanced software tools will be used

Prerequisite(s) – E,M,R, CIS 118 – or equivalent

220 WEB PROGRAMMING, FALL 3(2-2)

Personal computer system operation, maintenance and repair. Includes keyboard, monitors, chassis and power supply, logic board, processors, drives and printers. Students use diagnostic software and hardware, specify and assemble computer systems. Prepares for the A+ Certification Examination.

Prerequisite(s) – E,M,R, CIS 118 – or equivalent

221 SERVER-SIDE SCRIPTING, FALL 3(2-2)

Server based scripting languages are used to develop powerful applications. Database applications using current scripting languages will be discussed and used.

Prerequisite(s) – E,M,R, CIS 118 – or equivalent

222 ADVANCED WORD PROCESSING SKILLS, FALL, SPRING, SUMMER 1(0-1) OE/DE

Advanced principles of document construction and proper ways to solve document problems. Practical problems illustrate word processing applications and capabilities in a graphical user/World Wide Web environment.

Prerequisite(s): CIS 108 or CIS 122, (or equivalent)

223 ADVANCED WORKSHEET SKILLS, FALL, SPRING, SUMMER 1(0-1) OE/DE

Advanced principles of worksheet construction and proper ways to solve worksheet problems. Practical problems illustrate worksheet applications and capabilities in a graphical user/World Wide Web environment.

Prerequisite(s): CIS 108 or CIS 123, (or equivalent)

224 ADVANCED DATABASE SKILLS, FALL, SPRING, SUMMER 1(0-1) OE/DE

Advanced principles of database construction and proper ways to solve database problems. Practical problems illustrate database applications and capabilities in a graphical user/World Wide Web environment.

Prerequisite(s): CIS 108 or CIS 124 (or equivalent)

225 ADVANCED PRESENTATION SKILLS, FALL, SPRING, SUMMER 1(0-1) OE/DE

Advanced principles of presentation construction and proper ways to solve presentation problems. Practical problems illustrate presentation applications and capabilities in a graphical user/World Wide Web environment.

Prerequisite(s): CIS 108 or CIS 125 (or equivalent)

226 CISCO ICND 1 REVIEW, SPRING 3(2-2)

This course covers the topics of the Cisco ICND 1 exam. This course covers LAN technologies and operation, WAN devices, explaining and selecting appropriate administrative tasks required for WLANs, identifying security threats and methods to mitigate them, implementing small routed networks, small switched networks, implement and verify WAN links, Implement an IP addressing scheme and IP services to meet network requirements for a small branch office, subnetting, routed and routing protocols, components of and boot sequence of a Cisco router. Students will configure routers and routing protocols and switches.

Prerequisite(s): E,M,R, CIS140 or CIS 150, or Cisco Academy CCNA 1, or instructor permission.

227 CISCO ICND2/CCNA REVIEW, SPRING 3(2-2)

This course generally covers LAN technologies, WAN protocols, VLSM, bridging, switching, routed and routing protocols. Students will configure routers and switches including VLANs with trunking & ACLs as required by the certification exams (see cisco.com - certifications for specific topics).

Prerequisite(s): E,M,R, CIS228 or Cisco Academy CCNA1, 2 & CCNA 3, or instructor permission.

CIS228 SWITCHED & ROUTED NETWORKS, FALL 3(2-2)

This course is the capstone course for LMC's CIS Networking option. It will focus on security of networks that include a minimum of switches, routers, and servers (how to secure these devices). The course will also include various devices specifically designed as security devices such as VPNs, firewalls, etc.

This course introduces some of the more complex topics of the Cisco ICND 2 and CCNA certification exam (Access Control Lists and Variable Length Subnet Masking), and additional switching and routing topics and devices such as VPNs, firewalls, etc. It also provides education and hands on experience with switching and routing topics not covered by Cisco CCNA level certifications.

Education regarding security measures employed at switches, routers, and other networking devices such as VPNs, firewalls, etc. will be studied then configured on the devices in the lab. Students will configure routers and routing protocols, and devices such as VPNs, switches and firewalls. Students will build switched LANs, configure the WAN interfaces on routers, and devices such as firewalls and VPNs.

Prerequisite(s): E, M, R, and CIS 226 (with a grade of C or better), or high school Cisco Academy CCNA 1 and CCNA 2 with a grade of B or better, or high school Cisco Discovery 1 and 2 with a grade of B or better; or high school Cisco Exploration 1 and 2 with a grade of B or better, and CIS 242 concurrently or program approval.

240 COMPUTER SYSTEMS ANALYSIS/DESIGN, FALL 4(3-2)

Understand the process of developing information systems that effectively use hardware, software, data, processes, and people to support the company's business objectives
Prerequisite(s): E,M,R, CIS-108 or CIS-208 or Instructor permission

241 ADVANCED COMPUTER NETWORKING, FALL, SPRING 3(2-2)

The goal of this course is to provide basic understanding of switching and routing in computer networks. Students will create networks and configure switches (including creating and managing VLANs) and routers (configuring various routing protocols such as RIP, OSPF, IGRP) and the networks they create.
Prerequisites: E,M,R CIS140 concurrently

242 WINDOWS SERVER, FALL 3(2-2)

Provides the fundamentals of Windows Server Installation. Covers many of the objectives required for Microsoft Server Certification Exam. Students will configure a server on a network of three or four computers and configure email, web, file, print, and FTP, etc. services.
Prerequisites: E, M, R, and CIS 140 (with a grade of C or better) or CIS 150 (with a grade of C or better), or a high school Cisco Academy CCNA 1 with a grade of B or better, or high school Cisco Discovery 1 with a grade of B or better; or high school Cisco Exploration 1 with a grade of B or better, or program approval.

245 COMPUTER PROGRAMMING - COBOL II, SPRING 3(3-0)

COBOL programming language is widely used for business applications. Continuation of CIS-145. Students design, code, compile and execute programs addressing file access (sequential, indexed and random), libraries, report writer, program efficiency, documentation and data management.
Prerequisites: E, M, R, CIS 145 (or equivalent)

250 ADVANCED TOPICS, (ON-DEMAND) 4(3-2)

An introduction to pertinent topics of the emerging significance in business data processing. The following topics could be addressed: Navigating your Palm Pilot, Project Management software, Communication Networks, the Internet and the World Wide Web, Productivity Software Applications, Integrating Technology, Nano Technology, Network Security, Advanced Software Applications.
Prerequisites: E, M, R, Math 128, Pre-Calculus Algebra and CIS-100, Introduction to Computer Literacy

251 COMPUTER PROGRAMMING - BASIC, FALL, SPRING 3(3-0)

Designed for students with little programming experience beyond Computer Literacy. Problem solving, program design, coding, debugging and system commands necessary to create and execute programs in BASIC. Programming assignments given to build technical skills. Topics include language syntax, declaration and data types, variables and constants, arrays, executable instructions, statements and expressions, programming structures (i.e. sequence, selection, iteration) and modularity.
Prerequisites: E, M, R, MATH 128 or CIS 100 (or equivalent)

252 COMPUTER PROGRAMMING - FORTRAN, (ON-DEMAND) 3(3-0)

Mathematic and engineering application programming using Fortran. Students design, code, compile and execute Fortran programs. This course required for engineering transfer students and taken by CIS students as elective.
Prerequisites: E, M, R, MATH 128 or CIS 100 (or equivalent)

254 COMPUTER PROGRAMMING - C, FALL, SPRING 3(3-0)

Fundamentals of programming microcomputer using C language. Students obtain knowledge and practice writing programs in C. Requires substantial prior programming experience in structured high-level language (see prerequisites) as C is programming language used as basis for Graphic User Interfaces in Windows.
Prerequisites: E, M, R, CIS 145 or CIS 245 or CIS 251 or CIS 252 (or equivalent)

255 STRUCTURED QUERY LANGUAGE, SPRING 3(3-0)

Structured Query Language (SQL) is standard language for query databases. Most database tools offer varying menus and functions and share common underlying SQL engine interface. Experience creating and running independent databases in SQL.
Prerequisites: E, M, R, CIS 111 (or equivalent)

256 NOVELL NETWORKING I, FALL 3 (2-2)

A study of configuring and managing networks using the Novell NetWare network operating system. Concepts, tools and techniques will be presented and used to create and administer a complete Novell NetWare network. Covers objectives required for Certified Novell Administrator (CNA) exam.
Prerequisites: CIS 106, CIS 140 (or equivalent) E, M, R

257 NOVELL NETWORKING II, SPRING 3 (2-2)

Further study of networking with Novell NetWare. Emphasis is placed on managing the network. Specific areas include printer management, users, groups, security, rights and attributes. Covers objectives required for NetWare Advanced Administration test.
Prerequisites: E,M,R, CIS 106, CIS 140, CIS 256 (or equivalent)

260 COMPUTER PROGRAMMING - VISUAL BASIC, FALL 3(3-0)

Introduction to Visual BASIC, used by Windows and Windows based applications to create and modify applications. Highly recommended for individuals wishing to design or modify Application Programs. Not intended for transfer.
Prerequisites: E, M, R, CIS 251 (or equivalent)

261 COMPUTER INFORMATION SYSTEMS CO-OP I, FALL, SPRING FEE 3(1-15)

This course integrates a student's academic studies with work experience in an approved data processing job that the student has obtained and in which the student earns credits for satisfactory data processing experience. A minimum of 15 hours per week is required. Each student meets one hour per week with the coordinator in a related class. To participate in the class, application must be placed with the coordinator.
Prerequisites: advanced standing in the data processing program, a 2.00 GPA or higher in all previous college work, and approval of the co-op coordinator, the Computer Information Systems program coordinator, and one of the full-time Business Administration Faculty; E, M, R.

262 COMPUTER INFORMATION SYSTEMS CO-OP II, SPRING FEE 3(1-15)

This is an elective course for those students who have successfully completed 261 Computer Information Systems Co-op I. A minimum of 15 hours of work per week is required. Each student meets one hour per week with the coordinator in a related class. To participate in the class, application must be placed with the coordinator.
Prerequisites: CIS 261, and approval of the co-op coordinator; E, M, R

264 COMPUTER PROGRAMMING - "C++" 3(3-0)

This course is designed for those students desiring advanced experience in the AC=language. The fundamentals of programming the microcomputer using the "C++" language will be covered. Students obtain knowledge and practice by writing programs in "C++". The course requires substantial prior programming experience in a structured high-level language (see prerequisites) as "C++" is one of the programming languages used as the basis for today's Graphic User Interfaces. This course is not intended for transfer.

Prerequisites: E,M,R, and CIS 254 or instructor approval

265 COMPUTER PROGRAMMING VISUAL BASIC 2, SPRING 3 (3-0)

Further study of Visual Basic programming. Additional topics will include: database interfacing, mouse events, advanced tools and program distribution.

Prerequisites: E,M,R, MATH 128, CIS 251, CIS 260 (or equivalent)

270 OPERATING SYSTEMS SECURITY, (ON-DEMAND) 3(3-0)

In this course, we will take an in depth look at operating system security concepts and techniques. We will examine theoretical concepts that make the world of security unique. Also, this course will adopt a practical hands-on approach when examining operating system security techniques. Along with examining different security strategies, this course will explore the advancement of security implementation, as well as, timeless problem solving strategies.

Prerequisites: E,M,R , instructor permission

271 WEB SECURITY FOR ADMINISTRATORS, (ON-DEMAND) 3(3-0)

This course provides a comprehensive overview of building and maintaining firewalls in a business environment. It is designed for the student and network administrator who need to learn the basics of network firewall security. It covers basic installation techniques, discusses how to make an intelligent choice of firewall technology, and presents basic firewall troubleshooting. Specific topics covered include: planning/design, security, configuration, packet filtering, proxy servers, authentication, encryption, and Virtual Private Networks.

Prerequisites: E,M,R , instructor permission

272 NETWORK DEFENSE AND COUNTERMEASURES, (ON-DEMAND) 3(3-0)

In this course, we will take an in depth look at network defense concepts and techniques. We will examine theoretical concepts that make the world of networking unique. This course will also adopt a practical hands-on approach when examining network defense techniques. Along with examining different network defense strategies, this course will explore the advancement of network implementation, as well as, timeless problem solving strategies.

Prerequisites: E,M,R , instructor permission

280 DISASTER RECOVERY, (ON-DEMAND) 3(3-0)

The goal of this course is to provide a thorough, step-by-step process for learning the fundamentals of disaster recovery planning. Disaster recovery planning is the process of assessing risks that an organization faces, and then developing, documenting, implementing, testing, and maintaining procedures that help the organization quickly return to normal operations and minimize losses after a disaster. This course will enable individuals to become disaster recovery planning team leaders and members. This course is not designed as a hands-on class.

Prerequisites: E,M,R , instructor permission

290 MANAGING INFORMATION SECURITY, (ON-DEMAND) 3(3-0)

This course examines the clear need for management to understand the foundations of managing information security and the development of managerial strategies for information security as they relate to the important economic consequences of security accountability.

Prerequisites: E,M,R , instructor permission

293 NETWORK "SECURITY +" FUNDAMENTALS, (ON-DEMAND) 3(3-0)

This course meets the needs of students and professionals that want to master practical network and computer security. This course takes a comprehensive view of the types of attacks that are launched against networks and computer systems. It examines network and computer security defense mechanisms, and offers practical tools, tips, and techniques to counter attackers.

This course maps to the Computer Technology Industry Association's (CompTIA) Security+ Exam. (www.comptia.org)

Prerequisites: E,M,R, and instructor permission

295 PROJECT MANAGEMENT, SPRING 3(3-0)

Understand the genesis of project management and its importance to improving the success of information technology projects.

Prerequisite(s) – E,M,R, CIS 108 or CIS-208 or instructor permission

CORRECTIONS, PROBATION & PAROLE (CORR)**160 INTRODUCTION TO CORRECTIONS, FALL 3(3-0)**

Provides understanding of correctional systems. Topics include history and philosophical development of corrections, legal process, probation, imprisonment and parole, rights of prisoners and community-based corrections. Related responsibilities and vocational opportunities examined.

NOTE: To qualify for Corrections Officer Academic Certificate, students must achieve at least a C (2.0) in course.

Prerequisites: E, R

161 INSTITUTIONAL OPERATIONS, FALL 3(3-0)

Introductory study of correctional institutions and role in criminal justice process and society. Course includes, but is not limited to, study and discussion of correctional institutions, history, purpose, objectives, study of types of institutions, correctional programs, institutional problems, security procedures, correction and criminal law, management techniques, alternatives to institutionalization and correctional planning.

NOTE: To qualify for Corrections Officer Academic Certificate, a student must achieve at least a C (2.0) in course.

Prerequisites: E, R

162 INSTITUTIONAL POPULATIONS, SPRING 3(3-0)

Basic principles of human and criminal behavior and role of biological, psychological, environmental and social influences in development of normal and criminal personalities. Individual and group techniques for changing attitudes. Institutionalization and controlled community alternatives to institutionalization evaluated.

NOTE: To qualify for Corrections Officer Academic Certificate, a student must achieve at least a C (2.0) in course.

Prerequisites: E, R

163 CONCEPTS OF REHABILITATION, FALL 3(3-0)

Meaning and function of culture in relationships, minorities and impact of discrimination, attitude formation and professional responses to human behavior. Current theory and practice in rehabilitation in federal, state and municipal systems are discussed. Emphasis on state program.

NOTE: To qualify for Corrections Officer Academic Certificate, a student must achieve at least a C (2.0) in course.

Prerequisites: E, R

164 LEGAL ISSUES IN CORRECTIONS, SPRING 3(3-0)

Explores legal issues in corrections. Topics include constitutional law, law and court process, U.S. and State courts and court cases, Section 42 and prisonery rights. Cases and statutes read and analyzed for impact on corrections. Role of corrections officers in complying with law discussed.

NOTE: To qualify for Corrections Officer Academic Certificate, a student must achieve at least a C (2.0) in course.

Prerequisites: E, R

264 CASE STUDIES IN REHABILITATION, SPRING 3(3-0)

Modern trends in corrections, such as community-based programs in work-release, halfway houses, contract program planning. Therapeutic community and treatment team concept in institutions described and evaluated. Problems of correctional programming for short-term offender, special emphasis on alcoholism, drug abuse and narcotic problems, prostitution, homeless persons and related problems.

Prerequisites: E, R, *Sophomore standing in Corrections, Probation & Parole*

DENTAL ASSISTING (DENT)**165 INTRODUCTION TO DENTAL ASSISTING, FALL, SPRING, SUMMER OE/OE 3(2-2)**

Introductory course to dental assisting. Topics include dental teamwork, use of language, listening skills and personal oral hygiene. Prerequisites: E, R, *acceptance into Dental Assisting Program or permission of Dental Assisting Coordinator. Transitional Studies courses can be taken concurrently.*

166 CHAIRSIDE I, FALL, SPRING, SUMMER OE/OE, FEE, 3(2-2)

Introductory course in concepts of four-handed dentistry. Basic dental equipment, instrument identification, sterilization procedures, medical record history, infection control and vital signs presented.

Prerequisites: E, R, DENT 165 or permission of Dental Assisting Coordinator

Transitional studies courses cannot be taken concurrently.

167 CHAIRSIDE II, FALL, SPRING, SUMMER OE/OE, FEE, 3(2-2)

Continuation of DENT 166, Chairside I, and includes identification of handpieces, proper mixing of dental materials, precautions in use of nitrous oxide and assisting with topical and local anesthetics.

Prerequisites: E, R, DENT 165, DENT 166 or permission of Dental Assisting Coordinator

168 CHAIRSIDE III, FALL, SPRING, SUMMER OE/OE, FEE, 3(2-2)

Continuation of DENT 167, Chairside II. Topics addressed include performing chairside functions, fabricating custom trays, preparing final impressions, taking bite registrations, pouring and trimming study model and utilizing various types of orthodontic appliances.

Prerequisites: E, R, DENT 167 or permission of Dental Assisting Coordinator

169 CHAIRSIDE IV, FALL, SPRING, SUMMER OE/OE, FEE, 3(2-2)

Introduces the dental assistant's role in oral surgery, endodontics and pediatric dentistry.

Prerequisites: E, R, DENT 168 or permission of Dental Assisting Coordinator

170 INTRODUCTION TO BUSINESS ASSISTING, FALL, SPRING, SUMMER OE/OE 3(2-2)

Duties of dental business assistant including maintaining appointment book, controlling supply inventory, processing and mounting radiographs, completing insurance forms and preparing written communications.

Prerequisites: E, R, DENT 169 or permission of Dental Assisting Coordinator

171 INTRODUCTION TO DENTAL RADIOGRAPHY, FALL, SPRING, SUMMER OE/OE, FEE, 4(2-4)

Study of use of x-radiation in dentistry. Exposure techniques of dental radiography, radiation dosage and hazards. Protective measures for patient and operator are stressed. Students must be 18 years of age or older to enroll in course.

Prerequisites: DENT 170 or permission of Dental Assisting Coordinator

172 MEDICAL ISSUES IN THE DENTAL OFFICE, FALL, SPRING, SUMMER OE/OE 2(2-0)

Medical and dental emergencies and drugs encountered in treatment of dental patients.

Prerequisites: E, R, DENT 170 or permission of Dental Assisting Coordinator

173 CLINICAL I, (OFF-CAMPUS) FALL, SPRING, SUMMER FEE, 6(1-15)

Students assigned in community dental offices for clinical experiences. Includes review for Dental Assisting National Board examination and professional activities. Weekly seminar held with college instructor.

Prerequisites: E, R, DENT 169, DENT 171 and DENT 172

174 RDA I, FALL, SPRING, SUMMER, OE/OE, FEE, 3(2-2)

Advanced functions of Michigan Registered Dental Assistant including placement and removal of temporaries and rubber dams. Students study state and national guidelines in infection control, hazard communication and waste disposal.

Prerequisites: E, R, *successful completion and/or current enrollment in DENT 173 or permission of Dental Assisting Coordinator*

175 RDA II, FALL, SPRING, SUMMER, OE/OE, FEE, 3(2-2)

Continuation of RDA I includes advanced charting, extraoral and intraoral examination, suture removal and application of periodontal dressing, topical fluoride and pit and fissure sealants. Ethics and jurisprudence presented. Simulated RDA written and clinical board given at end of course.

Prerequisites: E, R, DENT 174 or permission of Dental Assisting Coordinator

176 CLINICAL II, (OFF-CAMPUS)**FALL, SPRING, SUMMER****FEE, 5(1-12)**

Students assigned to community dental offices for clinical experience in expanded functions. Weekly seminar held with college instructor.

Prerequisites: E, R, Successful completion of all dental assisting courses

DIAGNOSTIC MEDICAL SONOGRAPHY

100 INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY,

3(3-0)

Introduction to the physical and mathematical principles of ultrasonography. Review of: historical background; basic patient care skills; legal documentation; ethical principles and personal workplace safety.

Prerequisites: E, M, R, Entrance into the program.

101 GENERAL SONOGRAPHY I ABDOMEN,

4(4-0)

This course provides the student with abdominal sonographic cross sectional anatomy and pathology demonstrated in the transverse, longitudinal and coronal planes.

Prerequisites: E,M,R, DMSO100

102 GENERAL SONOGRAPHY I OB/GYN, FALL

4(4-0)

Introduction to: fetal and maternal cross-sectional anatomy and pathology; biological effects of fetal ultrasonography, prenatal diagnoses and syndromes.

Prerequisites: E,M,R, DMSO100

103 SONOGRAPHY LAB APPLICATIONS I, FALL

FEE, 2(0-4)

This course provides the student with lab applications in general abdominal and OB GYN sonographic cross sectional anatomy and pathology demonstrated in the transverse, longitudinal and coronal planes.

Prerequisites: E,M,R, DMSO 100, Concurrently DMSO101, DMSO102

104 CLINICAL EXPERIENCE A, FALL

2(0-16)

The first in a five semester sequence of scanning applications and techniques for imaging related to abdomen, pelvic, small parts and gravid uterus.

Prerequisites: E,M,R, DMSO100

200 GENERAL SONOGRAPHY II ABDOMEN, SPRING

3(3-0)

Intermediate to advanced identification and interpretation of anatomy and pathology of the abdomen, venous system and small parts. Emphasis will be on abnormal anatomy/pathology with hepatic and renal transplant.

Prerequisites: E,M,R, DMSO100, DMSO101, DMSO102, DMSO103, DMSO103

201 GENERAL SONOGRAPHY II OB/GYN, SPRING

3(3-0)

A continuation of the DMSO 102. Intermediate to advanced identification of an interpretation of cross sectional anatomy and pathology of the female pelvis and fetal and placental development.

Prerequisites: E,M,R, DMSO101, DMSO102, DMSO103, DMSO104

202 SONOGRAPHY LAB APPLICATIONS II, SPRING

FEE, 2(0-4)

A continuation of DMSO103, with lab applications in general abdominal, small parts and OB/GYN sonographic cross sectional anatomy and pathology demonstrated in the transverse, longitudinal and coronal planes.

Prerequisites: E,M,R, DMSO101, DMSO102, DMSO103, DMSO104

203 SONOGRAPHIC PHYSICS I, FALL

3(3-0)

The fundamental principles of acoustical physics; how sound is produced, manipulated and reacts with various mediums. Discussion and mathematical problem solving will be stressed in this course.

Prerequisites: E,M,R, DMSO101, DMSO102, DMSO103, DMSO104

204 CLINICAL EXPERIENCE B, SPRING

3(0-24)

Second in a five-semester sequence of clinical application involving intermediate scanning techniques including trauma and critical care patients with imaging related to abdomen, pelvic, small parts and gravid uterus.

Prerequisites: E, M, R, DMSO101, DMSO102, DMSO103, DMSO104

213 SONOGRAPHIC PHYSICS II, SPRING

3(3-0)

Focus will be a review of the Doppler Effect in addition to fluid dynamics, hemodynamics, harmonics, artifacts and developing a quality assurance program.

Prerequisites: E,M,R, DMSO224

214 CLINICAL EXPERIENCE C, SUMMER

5(0-40)

Third in a five semester sequence of clinical application involving advanced scanning techniques including trauma and critical care patients with imaging related to abdomen, pelvic, small parts and gravid uterus.

Prerequisites: E,M,R, DMSO200, DMSO201, DMSO202, DMSO203, DMSO204

224 CLINICAL EXPERIENCE D, SUMMER, FALL

5(0-40)

The fourth in a five-semester sequence of clinical application. Students will be expected to perform completed exams within departmentally allowed timeframes. Introduction to peripheral vascular scanning as time allows.

Pre-requisites: E,M,R, DMSO214

230 INTRODUCTION TO VASCULAR SONOGRAPHY & LAB APPLICATIONS,

4(3-2)

Introduction to non invasive vascular scanning with focus on terminology, basic anatomy, generic protocols and enhanced lab applications.

Prerequisites: E,M,R, DMSO224

234 CLINICAL EXPERIENCE E, FALL

3(0-24)

The final in a five-semester sequence of clinical application. Students will be expected to perform advanced exams within departmentally allowed timeframes. Introduction to peripheral vascular scanning as time allows.

Prerequisites: E,M,R, DMSO224

240 SONOGRAPHIC REGISTRY REVIEW,

2(2-0)

This course provides the student with review and self-examination in preparation for the American Registry of Diagnostic Medical Sonography Examinations.

Prerequisites: E,M,R, DMSO213, DMSO230, DMSO234

DRAFTING & DESIGN (DRAF)

102 MACHINE DRAWING, SPRING FEE, 3(1-4)

In this course, instruction will focus on mechanical concepts and the use of CAD to generate drawings and projects. Units of instruction will include sectional views, auxiliary views, threads/fasteners, weldments, advanced dimensioning/part tolerancing, geometric dimensioning and tolerancing, working drawings, assembly drawings and exploded views.

Prerequisites: ENGR103 or permission of instructor.

201 TOOL DESIGN I, SPRING FEE, 4(2-4)

A course concerned with the theory, principles and techniques for the design of cutting tools, jigs and fixtures and related tooling. The use of current ANSI standards will be applied to all designs. The use of on-line, part libraries, handbooks and various catalogs will be used. Students will construct all working and assembly drawings for their designs and be able to defend their design intent.

Prerequisite: ENGR103

202 TOOL DESIGN II, SPRING FEE, 3(1-4)

Theory and practice of designing metal presswork dies, plastic injection molds or plastic compression molds. Students design and build individual designs. Course must be taken concurrently with MACH 220. May be offered in alternate formats.

Prerequisites: E, M, R, ENGR 103, DRAF 102, MACH 110

203 DESCRIPTIVE GEOMETRY, SPRING FEE, 3(1-4)

Comprehensive study of combinations of points, lines, planes, injections, true sizes and shapes of plane areas, tangent planes measurement of angles and development of surfaces.

Prerequisites: ENGR 103

205 ARCHITECTURAL DRAWING, SPRING FEE, 4(2-4)

A course to acquaint the students with an understanding of the architectural and design professions along with the construction process so that they may intelligently transpose design thought into a pictorial drawing that can be used to build a physical reality.

Prerequisites: ENGR 103

207 CAD-MECHANICAL DESIGN, SPRING FEE, 3(1-4)

Students will learn the basics of 3D parametric solid part modeling and detailing using the latest Autodesk Inventor software. Students will also learn to create a rapid prototype part in this course.

Prerequisite: ENGR 103

208 CAD-MECHANICAL DETAILING, SPRING FEE, 3(1-4)

Detailed engineering drawings from 3-dimensional part database information. Dimensioning, layering and hatching routines learned. Students modify detailing menus and plot constructions on drum plotter.

Prerequisite: DRAF 207

211 MACHINE DESIGN, SPRING FEE, 3(1-4)

Exit level course engages student in development of mechanical devices. Students involved with engineering of machinery and designing of mechanisms, components and analysis of a project. Student projects from written proposal, designing a device to achieve solution, engineer components with team/group concepts, detail needed drawings and compose final written summary. May be offered in alternate formats.

Prerequisites: ENGR 103, DRAF 102

EARLY CHILDHOOD EDUCATION (ELCH)

***These courses are not applicable to a program in Elementary Education**

110 INTRODUCTION TO EARLY CHILDHOOD EDUCATION, FALL, SPRING, SUMMER 3(3-0)

This course serves as an introduction to early childhood education. During this class, settings where children age six weeks to twelve years receive care and education will be examined. Factors such as quality, licensing, and accreditation will be addressed. Also included will be ways in which social, emotional, physical, cognitive, and language development are supported in developmentally appropriate programs.

Prerequisite: R

111 EARLY CHILDHOOD LEARNING ENVIRONMENTS, SPRING, FALL 2(2-0)

This course explores how space and environments facilitate the implementation of goals in programs for infants, toddlers, preschoolers and school-agers (in before-and after-school programs) in a variety of settings. Within the context of environments, materials and equipment will also be explored. *Opportunities to assess existing environments will be included.*

Prerequisite: R

112 CURRICULUM PLANNING FOR YOUNG CHILDREN, FALL, SPRING 3(3-0)

This course will explore developmentally appropriate practice and the learning and developmental theories upon which it is based. Students will learn how to plan and implement curriculum that supports cognitive and language development. They will be responsible for planning activities, implementing them with a group of children and evaluating their effectiveness. Intergration of learning through a theme or project approach will also be addressed.

Prerequisite: R

113 GUIDE YOUNG CHILDREN'S SOCIAL DEVELOPMENT, SPRING 3 (3-0)

This course explores specific strategies and methods that guide children's social development and their behavior. The ultimate goal is to promote growth in internal self-control. Students will learn techniques for listening and talking to children, guiding children's problem solving and choices, and disciplining for inappropriate behavior. Weekly field experiences with children will provide opportunities to use the strategies that are presented. This course is not applicable toward elementary education certification.

Prerequisites: E, R

210 CURRICULUM PLANNING FOR YOUNG CHILDREN II, FALL 3(3,0)

This course is a continuation of Curriculum Planning for Young Children I. Students will learn how to plan and implement curriculum that supports creative, social, emotional, and physical development. The role of play in a child's development will be explored. Students will also gain knowledge of methods for documenting children's growth for use in planning and informing parents of their child's progress. This course is not applicable toward elementary education certification.

Prerequisites: E,R

211 DIVERSITY IN EARLY CHILDHOOD EDUCATION, FALL 3(3,0)

This course introduces students to anti-bias curriculum and setting up an anti-bias classroom environment. Discrimination issues in all areas, including ethnicity, religion, gender, economic class, age, ability, and sexual preference will be addressed. The student will examine their own attitudes and stereotypes and learn how to create an environment where differences are appreciated and valued and confident self identities developed. Opportunities will be given to learn about equipment, materials and curriculum that will support such an environment. This course will also look at ways to help children stand for oneself and take action in unjust situations. This course is not applicable toward elementary education certification.
Prerequisites: E,R

212 ADMINISTRATION OF EARLY CHILD PROGRAMS, SPRING 3(3-0)

This course addresses the administrative responsibilities of operating an early childhood program. Topics that are addressed include developing a program philosophy and budget, choosing a site and designing the environment, hiring and supervising staff, planning curriculum, and involving parents. Students will interact with a program administrator to better understand that role and work in groups to design a model program. This course is not applicable toward elementary education certification.
Prerequisites: E, R

213 CURRENT ISSUES IN EARLY CHILDHOOD, SPRING 3(3-0)

This course explores current issues in the field of early childhood and assists students in forming research-based responses to these issues. Current topics that will be addressed include gender issues, media and technology, child abuse and neglect, working with a diverse population of families, quality in childcare, kindergarten readiness, and recent brain research. Students will also learn strategies for advocating on critical issues that affect young children and their families. This course is not applicable toward elementary education certification.
Prerequisites: E, R

ELECTRONICS

100 DC ELECTRICITY, FALL, SPRING FEE, 4(3-2)

Fundamentals of Direct Current (DC) electricity. Concepts include voltage, current, resistance, power, Ohm's Law, electromagnetism and identification, operation and characteristics of passive components. Circuit analysis introduced using Ohm's and Kirchoff's Voltage and Current Laws involving series, parallel and compound circuits. Circuit construction from schematics and use of basic test equipment in lab.
Prerequisites: E, R

106 AC ELECTRICITY, FALL, SPRING FEE, 3(2-2)

Beginning course in AC electricity. Topics include average, effective, peak, period and frequency of sine wave. Reactance, impedance and phase relationship of current and voltage in R-C, R-L and RLC circuits. Resonance, time constants and complex numbers covered. Use of oscilloscope and meters in lab.
Prerequisite: ELEC 100

108 BASIC ELECTRONICS, FALL, SPRING (2-0)

Study of theory of semiconductor devices, op-amp basics and applications, digital circuits. Concepts will include P-N Junction, Diodes and Power Supply circuits, BJT, FET and Thyristor basics; Op-Amp basics, operation, characteristics and applications; Number systems, Logic gates, Logic circuit simplification, Flip-Flop and Counter circuits.
Prerequisites: E, M, R, ELEC 100 or equivalent

111 SEMICONDUCTORS, FALL, SPRING FEE, 4(0-5)

Study of commonly used solid state devices including diodes, special application diodes, bipolar junction transistors, field effect transistors, MOSFET, UJT, Triac, Thyristors, and power control circuits. Discussion of most commonly used semiconductor devices and their theory of operation. Emphasis on characteristics of operation and application. Includes troubleshooting.
Prerequisites: E, M, R, ELEC 100, ELEC 106 or equivalent

113 DIGITAL ELECTRONICS, FALL, SPRING FEE, 4(3-2)

Basic building blocks of modern digitally-operated electronic equipment, operation of digital logic gates, flip-flops, BCD counters, shift registers and other sequential logic operations and binary and hexadecimal numbering systems. Various digital equipment and basic computer operations included.
Prerequisite: E,M,R ELEC 100, ELEC 106, ELEC 111, or equivalent

116 LINEAR ELECTRONICS, FALL, SPRING FEE, 4(0-5)

Study of operational amplifiers, filter, oscillators and power supplies. Typical op-amp circuits covered include inverting and non-inverting amplifiers, integrators and comparators. Filter circuits covered include low, high and bandpass, typical oscillator circuits covered will be wein-bridge, LC and multivibrators. Power supply circuits such as rectifiers, regulators and filtering are part of course.
Prerequisite: E,M,R, ELEC 100, ELEC 106, ELEC 111 or equivalent

151 TRANSFORMERS, MOTORS AND MOTOR CONTROLS, SPRING FEE, 4(3-2)

Generation of AC voltage, transformer action and principles of AC motors, Delta and Wye transformer connection, and single-phase and three-phase motor controls. Students read and interpret motor and transformer electrical diagrams. Students spend approximately two hours per week participating in laboratory. Exercises provide relationship between theory and practical application.
Prerequisites: ELEC 100, ELEC 106

152 MACHINE CIRCUITRY AND CONTROL LOGIC, SPRING FEE, 3(0-5)

Study of electrical wiring standards for production equipment, machine tools and motors. Includes interpretation of electrical schematics, wiring diagrams and ladder diagrams to actual wiring of motors, relays, switches, etc. Electrical and electronic symbols published by the Joint Industry Council (JIC) will be learned.
Prerequisites: M, R, ELEC 100, ELEC 106

153 DIGITAL SIGNAL PROCESSOR, FALL, SPRING FEE, 3(0-3.75)

Study of Digital Signal Processor, CPU architecture, Central Arithmetic Logic Unit, program execution, addressing, and Peripherals. Hardware and software features for program control and use of DSP as FIR filter covered.
Prerequisites: E, M, R, ELEC 100, ELEC 106, ELEC 13, ELEC 208 or equivalent.

208 MICROPROCESSORS, FALL, SPRING FEE, 4(0-5)

Microprocessors, architecture, programming, interfacing, internal function blocks and troubleshooting. Typical microprocessor systems covered. Use of assembly language applications to control stepper motors, AD and DA conversion and other peripheral hardware.

Prerequisite: E,M,R, ELEC 100, ELEC 106, ELEC 111 or equivalent

211 SOLDERING, FALL, SPRING 1(1-0)

Survey course about terminology and types of solder, techniques of soldering and unsoldering terminals and components to circuit boards, and various tools used in soldering process. Assembly of sample circuit board used to practice proper techniques.

214 PC MAINTENANCE, FALL, SPRING FEE, 4(0-5)

Personal computer system operation, maintenance and repair. Systems covered include computer, keyboard, monitors, disk drives and printers. Instruction on use of diagnostic software, POST and setting up system is part of course. Students required to troubleshoot, identify and replace defective elements of system.

Prerequisite: ELEC 113

230 INDUSTRIAL ELECTRONICS, FALL, SPRING FEE, 4(3-2)

Study of control devices such as switches, relays (electromechanical and solid state), timers and motor controls. Also covers transducers and sensors such as t/c's, strain gauges and thermistors. Introduction to analog controllers and closed loop systems.

Prerequisite: E,M,R, ELEC 100, ELEC 106, ELEC 111 or equivalent

231 COMMUNICATION ELECTRONICS, FALL, SPRING FEE, 4(3-2)

Methods, circuits and devices used for transmission and receiving of information. Modulation concepts, satellite, two-way and optical communications. Introduction to principles and concepts of microwave and fiberoptic transmission of data.

Prerequisite: E,M,R, ELEC 100, ELEC 106, ELEC 111 or equivalent

EMERGENCY MEDICAL TECHNICIAN (EMT)

162 BASIC EMERGENCY MEDICAL TECHNICIAN, FALL, SPRING FEE, 8(6-6)

Entry-level course in emergency medical services. Teaches patient assessment, access, stabilization and treatment of patients, communication basics and transportation considerations. 32 hours arranged clinical time required. Lab time includes 8 Saturdays.

ENERGY (ENGY)

100 ENERGY/POWER INDUSTRY FUNDAMENTALS CONCEPTS, FALL, SPRING 3(3-0)

This course introduces fundamental concepts used throughout the nuclear industry as an integral part of daily operations. Topics include: Human Performance Enhancement (HPE) fundamentals, an introduction to the Systematic Approach to Training (SAT), conduct of On-The-Job Training (OJT) and Task Performance Evaluation (TPE), Foreign Material Exclusion (FME), and an overview of the FirstEnergy Nuclear Operating Corporation (FENOC) safety manual.

Pre-requisites: M,R,E

111 ENERGY GENERATION & DISTRIBUTION, FALL, SPRING 3(3-0)

To introduce students to energy production and distribution.

Prerequisites: E, M, R

116 FUNDAMENTALS OF NUCLEAR CHEMISTRY & RADIATION PROTECTION, FALL, SPRING 3(3-0)

Explain and apply the basic concepts of water chemistry control and reactor water chemistry. Explain the principles of radiation detection and monitors and the effects of radiation on matter, including body tissue. Perform calculations involving time, distance, shielding and dose rate. Describe the methods used for limiting radiation exposure and contamination.

Prerequisites: ENGY100 or ENGY111 with a grade of C or better

120 ENERGY PLANT DRAWINGS, FALL, SPRING 3(2-2)

This course covers the use of and relationship among typical drawings found at a power plant. Topics include using mechanical, electrical, and isometric drawings; the information contained in the lead sheet of a set of drawings; the use of notes and legends; standard symbology used in engineering drawings; and the use of various types of drawings together in order to perform work, locate components, or use for other typical applications.

Prerequisites: ENGY100 or ENGY111 with a grade of C or better

150 CODES & STANDARDS, FALL, SPRING FEE, 3(3-0)

Interpretation and application of codes and standards in Wind energy.

Prerequisites: M, R

155 WIND ENERGY APPLICATION, FALL, SPRING FEE, 3(2-2)

Explain and apply the basic concepts of wind energy applications.

Prerequisites: M, R and ENGY150 with a C or better (classes may be taken concurrently)

160 WIND INSTALLATION, FALL, SPRING FEE, 3(1-4)

This course introduces fundamental concepts used to install small wind components.

Prerequisites: M, R and ENGY155 with a C or better (classes may be taken concurrently)

165 SMALL WIND MAINTENANCE, FALL, SPRING FEE, 3(1-3)

Troubleshooting, preventative maintenance and repair methods for small wind maintenance systems common to the field of wind energy.

Prerequisites: M, R and ENGY160 with a C or better (classes may be taken concurrently)

182 BOILER THEORY, SAFETY, AND DESIGN SYSTEMS, FALL, SPRING FEE, 3(3-0)

This course provides an understanding of the concepts related to boiler design, boiler and boiler auxiliary equipment protection, combustion, heat production, steam production, boiler efficiency and operation.

Prerequisites: MATH110 OR MATH122 and ENGY111, PHYS110, ENGY230, all with a C or better.

184 FOSSIL FUEL CYCLE, FALL, SPRING 3(3-0)

This course provides an understanding of the fuel handling and preparation processes used at a fossil fuel-electric generating station, the byproducts created as a result of combustion, the equipment put in place to measure and control those byproducts, and the regulatory requirements in place to protect the general public, the environment and site workers.

Prerequisites: MATH110 OR MATH122 and PHYS110, CHEM101, and ENGY111 with a C or better.

200 REACTOR PLANT MATERIALS, FALL, SPRING 3(2-2)

This course provides students with an understanding of the various materials used in the construction and operation of a nuclear power plant. Topics include metals and alloys; effect of environment, process fluid type, and radiation on the selection of materials; an overview of fracture mechanics and brittle fracture; design margin; and hazards associated with reactor plant materials.

Prerequisites: ENGY100 or ENGY111, Math 122 and PHYS110 with grades of C or better

205 ENERGY FIELD EXPERIENCE, 2(2-0)

This field experience is a planned work activity that is designed to introduce the student to the primary technical areas within a power plant. During the field experience, students will have introductory instruction in the general operations of a power plant. They will then experience the various technical areas by rotating through the departments at the power plant. This will help the student select possible career paths for full-time employment upon graduation. Students will spend a minimum of 30 hours in the plant.

Prerequisites: ENGY100 with a grade of C or better or ENGY111 with a grade of C or better and ENGY116 with a grade of C or better

210 RADIATION DETECTION & PROTECTION, FALL, SPRING FEE, 3(2-2)

This course presents an overview of the physics and chemistry of radiation and radioactive materials. The course will consist of descriptions of a number of different applications of radiation, their associated radionuclides, context(s) and rationale(s) of use, interactions with matter, shielding and energetic, decay products, and their production in reactors or accelerators. Included in the course will be appropriate mathematics such as unit conversions and exponentials.

Prerequisites: ENGY100 or ENGY111 with a grade of C or better, and MATH122 with a grade of C or better, and PHYS110 with a grade of C or better

223 RADIATION MONITORING, FALL, SPRING FEE, 3(2-2)

This course presents scenarios in which radiation protection technicians (RPTs) monitor sources of radiation. A focus of this course will be on theory and operation of radiation monitors, maintenance and calibration of these systems, proper selection and use of various monitoring systems for evaluation of radioactive hazards, and the interpretation and reporting of such evaluations. Laboratory exercises are included.

Prerequisites: (ENGY100 or ENGY111) with a C or better and ENGY200, ENGY205, ENGY210, ENGY225, ENGY230, ENGY235 all with a grade of C or better

225 REACTOR THEORY, SAFETY & DESIGN SYSTEMS, FALL, SPRING FEE, 3(3-0)

This course provides an understanding of the concepts related to reactor plant protection, including fission process product barriers, limiting conditions for operation and safety limits; the basic concepts related to accident analysis, transient prevention, mitigation of core damage and accident management. Basic information about major industry operating experience is included.

Pre-requisites: (ENGY100 or ENGY111) with a C or better and MATH122 and PHYS110 with a C or better

230 THERMO-FLUID SCIENCES, FEE, 3(3-0)

This course presents basic concepts of thermodynamics, heat transfer and fluid dynamics as they apply to power plant applications. It covers the topics of energy, entropy, thermodynamic cycles, heat transfer, and fluid dynamics. The course also discusses the basics of important pieces of equipment such as turbines, heat exchangers, pumps and valves.

Prerequisites: (ENGY100 or ENGY111) with a C or better and MATH122 and PHYS110 with a C or better

233 DOSIMETRY, FALL, SPRING 3(2-2)

A study of radiation biology, radiation effects on simple chemical systems, biological molecules, cell, organisms and humans. Stochastic vs. deterministic effects, units of exposure, dose and dose equivalent, external dosimetry, internal dosimetry, control of external and internal exposure, detector and instrumentation systems for measuring dose are included.

Prerequisites: ENGY223 with a grade of C or better

235 POWER PLANT COMPONENTS, FALL, SPRING 3(3-0)

This course introduces students to fundamental components and pieces of equipment that are used throughout electrical power generating facilities such as pumps, valves, heat exchangers, motors, and generators. It will cover the purpose, construction, theory of operation, and typical maintenance requirements of these devices.

Prerequisites: (ENGY100 or ENGY111) with a C or better and MATH122 and PHYS110 with a grade of C or better

240 CAPSTONE & CASE STUDY IN ENERGY TECHNOLOGY, FALL, SPRING FEE, 2(2-0)

This is a capstone course that will utilize topics that were covered throughout the curriculum. A large portion of the course will examine case studies from the power generation industry. It will also examine case studies of incidents from other industries. The course will discuss precursors to poor decision making and how the proper use of human performance enhancement (HPE) and event free tools can minimize the risks of accidents. This course will also introduce students to pre-job interviewing and testing.

Prerequisites: (ENGY100 or ENGY111) with a grade of C or better and ENGY116, ENGY200, ENGY205, ENGY225, ENGY230, ENGY235, all with a grade of C or better

243 RADIATION MATERIALS & CONTROL, FALL, SPRING FEE, 3(2-2)

The course presents scenarios in which RPT's are required to provide safe control, movement, use, storage, transportation and disposal of radioactive materials.

Prerequisites: ENGY233 with a grade of C or better

249 SAFETY RESPONSE, FALL, SPRING FEE, 3(2-2)

Practical applications and demonstrations of radiation protection and health physics. Radiological survey & analysis instruments, radiation monitoring systems, sample collection equipment, calibration sources and equipment, radiological protection standards, contamination control, monitoring of radiological work, radiological incident evaluation and control, decontamination, radioactive materials control. Environmental monitoring will be introduced.

Prerequisites: ENGY233 with a C or better

250 GENERAL MAINTENANCE SYSTEMS & COMPONENTS, FALL, SPRING FEE, 3(3-0)

The topics build on general systems and components knowledge. Component types and characteristics, common failure mechanism, and operation principles of plant components will be included.
Prerequisites: ENGY100 or ENGY111 with a grade of C or better and ENGY116, ENGY200, ENGY205, ENGY225, ENGY230, ENGY235 all with a grade of C or better

253 RADIATION PROTECTION CAPSTON, FALL, SPRING 3(3-0)

The course is a capstone course which utilizes a problems-based approach to learning. This course will present radiation protection problems embedded in different radiation contexts, the majority of which are nuclear power reactor-based. Participants will be tasked with solving such problems as providing radiological coverage of jobs and high-risk and low-risk activities (e.g. outages), planning for protection from hazardous radiation, monitoring of activities in radioactive zones, and responding to emergencies.
Prerequisites: ENGY223, ENGY233, ENGY243, ENGY249, all with a grade of C or better.

270 MECHANICAL OPERATIONS, FALL, SPRING FEE, 3(2-2)

This course covers the construction, application, and operation of mechanical components in the power plant.
Prerequisites: ENGY100 or ENGY111 with a C or better and ENGY116, ENGY200, ENGY205, ENGY225, ENGY230, ENGY235 all with a C or better

274 ELECTRICAL & HVAC OPERATIONS, FALL, SPRING FEE, 3(2-2)

This course covers the basic operation of electrical and HVAC systems associated with a power plant. It also describes basic construction, application, and operation of basic electrical and HVAC power plant components.
Prerequisites: ENGY270 with a C or better

278 OPERATION OF POWER PLANT COMPONENTS, FALL, SPRING FEE, 3(2-2)

This course provides basic knowledge needed to operate and monitor components associated with various systems in the power plant.
Prerequisites: ENGY274 with a grade of C or better

ENGINEERING (ENGR)

103 BEGINNING ENGINEERING DRAWING, FALL, SPRING FEE, 4(2-4)

Introductory technical drawing course which studies lettering, geometric construction, sectional views, dimensioning techniques, Basic 2D CAD and pictorials. Drawing skills and knowledge gained by student through exercises including text assignments, handout assignments and chapter tests. Students learn to produce and evaluate blueprints.
Prerequisites: E, M, R

205 DESCRIPTIVE GEOMETRY, SPRING FEE, 3(1-4)

Problems combining point, line and plane, intersections, developments, warped surfaces and tangent planes.
Prerequisite: ENGR 103

ENGLISH (ENGL)

*NOTE: *This is a transitional course, college credit not received. Courses that have identification numbers below 100 do not count toward total credit hours needed to earn a Certificate or Associate Degree.*

***091 ENGLISH FUNDAMENTALS, FALL, SPRING 4(4-0)**

Introduces the building blocks of college composition. Primary attention given to creating well-organized paragraphs developed with complete sentences using Standard English. Attention is also given to the closely related activities of critical reading and thinking.
Prerequisite: Assessment Placement

***095 FOUNDATIONS OF COLLEGE READING & WRITING, FALL, SPRING, SUMMER 4(4-0)**

Develops critical thinking, reading and writing skills necessary to succeed in college. Primary focus will be learning and applying reading and writing processes to enhance communication.
Prerequisites: Assessment Placement

101 ENGLISH COMPOSITION, FALL, SPRING, SUMMER 3(3-0)

First course in two-semester English sequence focuses on expository writing and closely related activities of critical reading and thinking. Primary attention given to formal elements of short essays based upon or incorporating documented source material. (This sequence can be completed by taking either ENGL 102 or 103).
Prerequisites: E, R

102 ENGLISH COMPOSITION, FALL, SPRING, SUMMER 3(3-0)

Extension and intensification of elements of expository writing and critical reading and thinking covered in ENGL 101. Particular emphasis given to formal, stylistic and rhetorical considerations and techniques involved in developing longer critical essays that incorporate documented evidence from broad range of source materials.
Prerequisite: ENGL 101

103 TECHNICAL WRITING, FALL, SPRING, SUMMER 3(3-0)

Helps students write with greater skill, confidence and effectiveness on job. Writing assignments develop ability to analyze specific audiences, purposes and situations and to use appropriate content, organization, style, form and format. Writing assignments include job application letter and resume, summary, process explanation, proposal, various short reports, research report and formal report. Either ENGL 102 or ENGL 103 in addition to ENGL 101 will fulfill English Composition requirements.
Prerequisite: ENGL 101

201 GENDER STUDIES, ON DEMAND 3(3-0)

Explores the relationship between self-definition and gender expectations through drama, fiction, poetry, and non-fiction; examines process of selfhood and influence of culture, and analysis of narrative form and gender expectations.
Prerequisites: E,R

203 MASTERPIECES OF ENGLISH LITERATURE I, ON DEMAND **3(3-0)**
Examples of the major types of English literature are studied. The study focuses on appreciation of thought and expression. The work begins with the Anglo-Saxon period and ends with the eighteenth century. Literary types studied include the epic, the ballad, the tale, the allegory and the play.
Prerequisites: E, R

204 MASTERPIECES OF ENGLISH LITERATURE II, ALTERNATE YEARS **3(3-0)**
Study of English literature of the Romantic, Victorian, and Modern eras from 1750 to the present. Representative authors' works read and evaluated to understand background and impact, characteristics and aesthetic value, and how they represent their times.
Prerequisites: E, R

205 INTRODUCTION TO SHAKESPEARE, SPRING **3(3-0)**
Shakespeare's greatest plays and a selection of his sonnets are read intensively and discussed. The universality of Shakespeare's thought will be emphasized, as will the qualities that make his work applicable to the modern day. For instance, characterization will be stressed more than plot. The course will lead to a greater understanding and appreciation of Shakespeare's writing.
Prerequisites: E, R

208 LITERARY INTERPRETATION, FALL, SPRING **3 (3-0)**
Study of literature to develop sensitivity and skill in critical interpretation of poetry, drama, and prose fiction. Includes characteristics of different literary genre, their analysis, and increased reading and interpretation skills.
Prerequisites: E, R

209 AMERICAN NOVEL, (ON-DEMAND) **3 (3-0)**
Major American novels since 1850 in terms of setting, characterization, plot, tone, point of view, theme, imagery, symbolism and style. Social, historical, psychological and intellectual significance of works are considered. Novels studied include selection of works by authors from 1850 to present.
Prerequisites: E, R

210 UNITED STATES LITERATURE I, FALL **3(3-0)**
Survey of colonial period to 1800, and 1800-1865. Emphasis on cultural encounters, contested visions, the discourse of liberty and conquest, and the development of an American voice. Examines American Literature of both periods in terms of cultural, historical and intellectual roots. Emphasis on the issues of race, gender and class along with the study of writings that reflect major literary and social movements.
Prerequisites: E, R

211 AMERICAN LITERATURE 1865 TO PRESENT, SPRING **3(3-0)**
Study of major elements of American Literature from the Civil War to the present. Emphasis on origins and nature of modern literature. Examines American literature of period in terms of cultural, historical, and intellectual roots. Study of writings which reflect major literary and social movements.
Prerequisites: E, R

214 CHILDREN'S LITERATURE, FALL, SPRING **3(3-0)**
Folk and fairy tales, poetry, mythology, realistic fiction and minority group literature appropriate for children. Emphasis on selection and presentation of literature appropriate for children of preschool age through junior high level.
Prerequisites: E, R, ENGL 101

215 POETRY, (ON-DEMAND) **3(3-0)**
Appreciation and understanding of poetry. Study of important aspects of a poem: images, figures, symbols, rhythm, sounds and tone. Emphasis on twentieth-century poetry. Recommended for English majors.
Prerequisites: E, R

216 LITERATURE OF BLACK AMERICA, SPRING **3(3-0)**
Fiction and non-fiction literary works by black American authors (narratives, short stories, essays, poems, speeches, memoirs, plays and novels). These works, from the heritage of black Americans, are part of American literary heritage. Course will feature a thematic or special topic selection of works by a variety of recognized authors.
Prerequisites: E, R

217 CREATIVE WRITING, FALL, SPRING **3(3-0)**
Imaginative writing, i.e., writing of original poetry, fiction, drama, and creative non-fiction (memoir). Study and application of specific techniques in each genre. Conducted on a workshop basis. Students expected to produce a portfolio of finished pieces in the four genres.
Prerequisites: E, R

220 CONTEMPORARY FICTION, ON DEMAND **3(3-0)**
Central themes and fictional approaches evident in contemporary fiction.
Prerequisites: E, R

FIRE SCIENCE (FISC)

102 FIREFIGHTER II, **12 (10-4)**
Course includes basic fire fighting skills while utilizing tools and equipment commonly used by municipal fire departments. Hazardous Materials Operations (24 hour) level training is a required component.

IMPORTANT NOTE: The current Fire Science curriculum is offered as a career advancement program for the already certified volunteer or career firefighter. The program can recognize a limited number of training certifications issued by the State of Michigan and the State of Indiana.
Prerequisite: Corequisite: None

110 FIRE PREVENTION, **3 (3-0)**
This course will introduce students to an important function of any progressive fire department - fire prevention. Major topics include fire prevention inspection techniques, the importance of code enforcement procedures, and developing public fire education programs.
Prerequisite: Michigan or Indiana Firefighter II and Haz-Mat Operations certification.

111 BUILDING CONSTRUCTION, **3 (3-0)**
Students will explore the methods and materials used to construct buildings, how the design and engineering of a structure can influence smoke and fire travel, and how the structural integrity of a building is affected by fire. The safety of building occupants and firefighters is emphasized.
Prerequisite: Michigan or Indiana Firefighter II and Haz-Mat Operations certification required.

112 FIRE SERVICE TACTICS, 3 (3-0)

This course will examine modern firefighting techniques used to effectively mitigate a variety of incidents. Students will review different tactics related to general and specific fire situations. It is designed to prepare firefighters and fire officers to successfully execute strategic assignments from incident managers.

Prerequisite: Michigan or Indiana Firefighter II and Haz-Mat Operations certification required.

210 FIRE CAUSE DETERMINATION, 3 (3-0)

Firefighters and fire officers will learn how to determine the origin and cause of a fire. Identifying and preserving evidence, recognizing when the assistance of a more highly trained investigator is needed, and courtroom procedures will be discussed.

Prerequisite: Michigan or Indiana Firefighter II and Haz-Mat Operations certification.

211 INSTRUCTIONAL TECHNIQUES, 3 (3-0)

This course is a comprehensive approach to the basics of instructing and presenting. Students will study characteristics of adult learners, learn to identify training needs, develop outlines, and make presentations in class. The operation of audio-visual equipment will be demonstrated.

Prerequisite: Michigan or Indiana Firefighter II and Haz-Mat Operations certification.

212 INCIDENT MANAGEMENT, 3 (3-0)

The emphasis of this course is to provide firefighters and fire officers with the knowledge and skills necessary to manage incident operations. Classroom activities will focus on recognizing incident priorities and the ability to manage fire service personnel, equipment and other resources.

Prerequisite: Michigan or Indiana Firefighter II and Haz-Mat Operations certification. FIRE 112 is recommended.

FOREIGN LANGUAGE (FORL)**SELF-INSTRUCTIONAL LANGUAGE PROGRAM**

The following are National Association for Self-Instructional Language Program courses addressing the needs of beginning students in various languages. Courses concentrate on functional communication with emphasis on outcome-based goals such as being able to speak in basic sentence patterns, ask questions, engage in telephone conversations, make requests, give orders, etc., in situational introductions of reality. Communication is emphasized; grammar is introduced to support this process. Permission required from program coordinator before registering for these classes. Each course has a separate fee.

125	Elementary Mandarin Chinese I	4 cr. hrs.
126	Elementary Mandarin Chinese II	4 cr. hrs.
174	Elementary Polish I	4 cr. hrs.
175	Elementary Polish II	4 cr. hrs.
177	Beginning Russian I	2 cr. hrs.
178	Advanced Beginning Russian I	2 cr. hrs.
179	Beginning Russian II	2 cr. hrs.
180	Advanced Beginning Russian II	2 cr. hrs.
181	Elementary Russian I	4 cr. hrs.
182	Elementary Russian II	4 cr. hrs.
184	Beginning Japanese I	2 cr. hrs.
185	Advanced Beginning Japanese I	2 cr. hrs.
186	Beginning Japanese II	2 cr. hrs.
187	Advanced Beginning Japanese II	2 cr. hrs.
188	Elementary Japanese I	4 cr. hrs.

189	Elementary Japanese II	4 cr. hrs.
191	Beginning Italian I	2 cr. hrs.
192	Advanced Beginning Italian I	2 cr. hrs.
193	Beginning Italian II	2 cr. hrs.
194	Advanced Beginning Italian II	2 cr. hrs.
195	Elementary Italian I	4 cr. hrs.
196	Elementary Italian II	4 cr. hrs.
198	Elementary Arabic I	4 cr. hrs.
199	Elementary Arabic II	4 cr. hrs.

101 ELEMENTARY FRENCH I, FALL 4(4-0)

For students with limited background in modern foreign languages. Basic grammatical principles, elementary conversation, simple writing and dictation, some discussion of culture and geography of France. Additional work with tapes or CD'S is required.

Prerequisites: E, R

102 ELEMENTARY FRENCH II, SPRING 4(4-0)

Continuation of FORL 101. Basic grammatical principles; conversation of more advanced level, continued writing, dictation and cultural study. Continued use of tapes or CD'S required.

Prerequisites: E, R, FORL 101

121 ELEMENTARY SPANISH I, FALL 4(4-0)

For students with limited or no background in modern foreign languages. Basic grammatical principles, elementary conversation and simple writing. Some additional work with tapes or CD's. Culture and geography of Spanish-speaking countries.

Prerequisites: E, R

122 ELEMENTARY SPANISH II, SPRING 4(4-0)

Continuation of FORL 121. Study of basic grammatical principles is completed with continued conversation, writing, dictation and cultural study.

Prerequisites: E, R, FORL 121

123 SPANISH FOR THE WORKPLACE, FALL, SPRING 4(4-0)

This course offers an introduction to the Spanish language with particular emphasis on applying acquired knowledge within the realm of the workplace.

Prerequisites: None

124 SPANISH FOR THE WORKPLACE II, FALL, SPRING 4(3-1)

This course is a continuation of basic Spanish with particular emphasis on applying acquired knowledge within the realm of the workplace.

Prerequisites: FORL 123 or two years of high school Spanish or one semester of College Spanish, or permission of the instructor.

171 INTRODUCTION TO ANISHNAABEMOWIN, FALL 3(3-0)

This course serves as an introduction to the study of the language and culture of the Anishnaabek - the Potawatomi, Odawa, and Ojibwe Nations - who are the Indigenous people of the Great Lakes region. Course content will focus on foundational grammar, pronunciation, and cultural context.

Prerequisites: None

201 INTERMEDIATE FRENCH I, FALL 4(4-0)

Review of basic grammatical functions, advanced conversation and more writing, reading of selections from contemporary writers. Classes may be conducted in French.

Prerequisites: E, R, FORL 102 or successful completion of at least two years high school French

202 INTERMEDIATE FRENCH II, SPRING 4(4-0)

Continuation of FORL 201. Further emphasis on ability to read, write and converse in French.

Prerequisites: E, R, FORL 201

221 INTERMEDIATE SPANISH I, FALL 4(4-0)

Review of basic grammatical functions, more detailed writing and advanced composition. Reading of selections from Spanish authors. Classes may be conducted in Spanish.

Prerequisites: E, R, FORL 122 or successful completion of at least two years high school Spanish

222 INTERMEDIATE SPANISH II, SPRING 4(4-0)

Continuation of FORL 221. Emphasizes ability to speak, read, and write in Spanish.

Prerequisites: E, R, FORL 221

251 ADVANCED ORAL AND WRITTEN SPANISH, (ON-DEMAND) 3(3-0)

Concentration on improvement in written and oral expression in Spanish based on selected readings in modern Spanish literature. Lectures, discussion, resumes, student presentations and short papers in Spanish, with extensive and intensive reading assignments. Classes conducted in Spanish.

Prerequisites: E, R, FORL 222 or equivalent

GEOGRAPHY (GEOG)**102 ELEMENTS OF PHYSICAL GEOGRAPHY, FALL, SPRING 4(3-2)**

Includes study of planetary relations, atmosphere, air masses, climates, water resources, landforms, soils and vegetation. Demonstrates basic relationship among these topics. Impact of human activities on environment emphasized. Laboratory work integral to course and used to reinforce important topics. Transfers as science (Area III-General Education) or major/minor credit to Western Michigan University.

Prerequisites: E, R

GRAPHIC DESIGN (GRDN)**101 DIGITAL STUDIO, FALL, SPRING FEE, 3 (2-4)**

Introduces a working knowledge of the Macintosh computer platform as a design tool. Provides experience in industry standard software used by graphic designers including illustration, image manipulation and page layout programs. Serves as a foundation course in the use of computer technology for artists and graphic designers.

Prerequisites: E, R

110 INTRODUCTION TO GRAPHIC DESIGN, FALL, SPRING FEE, 3 (2-4)

This course investigates the graphic design profession. Students engage in simulation of client pitches, participate in group critiques and brainstorming sessions, create design briefs, thumbnail sketches, mood boards and "comps". Conceptual design and client research is emphasized. Students evaluate their career goals through readings and discussion on design specialties and schools.

Prerequisites: E, R

130 DIGITAL PHOTOGRAPHY, SPRING FEE, 3 (2-4)

This course advances the student in the fundamentals of digital imaging using industry standard image manipulation software and serves as a foundation course in the creation, use and selection of original photographic images for advertising and graphic design work.

Prerequisites: E, R, GRDN 101 or instructor's consent.

140 PRODUCTION SKILLS FOR GRAPHIC DESIGN, SPRING, FEE, 3 (2-4)

This course emphasizes the practice of functional design by developing the student's knowledge of the production processes in graphic media. Designing a message to work efficiently within the production process and on budget while employing original thought.

Prerequisites: E, R, GRDN 101, GRDN 110 or instructor's consent

200 TYPOGRAPHY I, FALL FEE, 3 (2-4)

This course is an introductory study of the typographic arts from the invention of writing through the Industrial Revolution. Emphasis will be placed on the use of type in professional communication, the art of classical typography, letterforms, basic type principles and the contribution of the printed word to humanity.

Prerequisites: E, R, GRDN 101, GRDN 110 or instructor's consent

201 TYPOGRAPHY II, SPRING FEE, 3 (2-4)

This course is a continuing study of the typographic arts in the twentieth century and the information age. Emphasis will be placed on the use of type in professional communication, the grid system, information design, international typographic style, type used in digital and other media, and the contribution of graphic design as a language for social reform.

Prerequisites: E, R, GRDN 101, GRDN 110, GRDN 200, ART 109 or instructor's consent

220 DESIGN STRATEGIES, FALL FEE, 3 (2-4)

This course is an interdisciplinary approach to design where the student will consider a "360 degree" strategy to complex design problems in the development and maintenance of brand. Building copywriter and art director teams, working with artist, employing field experts, media selection, the use of technology, developing marketing strategies and advertising campaigns will be discussed and applied in laboratory projects. Students will devise a plan and execute designs for an interdisciplinary project.

Prerequisites: E, R, GRDN 101, GRDN 110, GRDN 140, ART 109 or instructor's consent

250 PORTFOLIO, SPRING FEE, 3 (2-4)

This course will guide the student in presenting a portfolio based on their personal career objectives. Students will prepare for their career by researching transfer institutions or implementing a job search. Professional practice will be emphasized.

Prerequisites: E, R, GRDN 101, GRDN 110, GRDN 130, GRDN 140, GRDN 200, GRDN 201, GRDN 220, ART 109 or instructor's consent

HEALTH (HEAL)**120 HEALTH AND HEALTH OCCUPATIONS, FALL, SPRING 2(2-0)**

Basic knowledge necessary for students interested in health or health careers. General background given in many health areas: anatomy, nutrition, vital signs and infection control are examples. Health career overview as integral part of course with opportunities to research many different occupations in health care field. Students completing this course will have good background for study of any health occupation and will be knowledgeable about what these occupations entail.

130 PHLEBOTOMY TECHNICIAN, (ON-DEMAND) 7(5-7)

Prepares individuals to work in clinical laboratories under the supervision of the appropriate technologists. Includes health care delivery systems; medical terminology; infection control; safety; basic anatomy and physiology; legal implications of phlebotomy; specimen collection; quality assurance methods; ethics; and written, verbal and interpersonal communications. Requires 100 hours of supervised clinical practice in addition to class time.

Prerequisites: E, M, R

165 STANDARD FIRST AID AND PERSONAL SAFETY, FALL, SPRING FEE, 2(2-0)

Intensive course on beginning first aid that includes choking, shock, burns, wounds, poison, heat and cold reactions, bandaging, sudden illness and other emergency situations. Students receive American Red Cross or American Heart Association certification in Standard First Aid upon successful completion of course.

Prerequisites: None

166 CPR/AED, FALL, SPRING, SUMMER FEE, 1(1-0)

The purpose of the CPR/AED for the Professional Rescuer course is to teach professional rescuers (those with a duty to act) the skills needed to respond appropriately to breathing and cardiac emergencies. CPR/AED also includes the use of automated external defibrillators, oxygen administration and airway management. American Red Cross or American Heart Association certificate issued upon successful completion of course.

HISTORY (HIST)**101 HISTORY OF WESTERN CIVILIZATION I, FALL 4(4-0)**

Explores evolution of Western cultural heritage from roots in the ancient world to Italian Renaissance. Examines character and achievements of ancient civilizations of Mesopotamia, Egypt, Greece and Rome. Traces rise and spread of great Western religions: Judaism, Christianity and Islam. Concludes with analysis of essential features of early and late medieval civilization, and changes wrought in European society by Renaissance.

Prerequisites: E, R

102 HISTORY OF WESTERN CIVILIZATION II, SPRING 4(4-0)

Examines developments in European world from 1500 to 1920. Begins with analysis of forces that shaped early modern society: Protestant Reformation, commercial revolution, rise of absolute monarchies and nation state, and scientific and intellectual revolution of 17th and 18th centuries. Explores impact of two upheavals, French Revolution and Industrial Revolution, on events and ideologies of 19th century. Among topics considered are growth of liberalism, socialism, Marxism, nationalism and scientific secularism, and their social and political consequences. Study of causes and effects of World War I.

Prerequisites: E, R

201 AMERICAN HISTORY, FALL, SPRING 3(3-0)

United States history from the colonial period through Reconstruction. Topics include process and problems of colonization, difficulties encountered in developing workable political structure, process of democratization, socio-economic change, territorial expansion, rivalries leading to Civil War, and the impact of the war. Special attention is paid to modern legacy from America's past.

Prerequisites: E, R

202 AMERICAN HISTORY, FALL, SPRING 3(3-0)

United States history from the Reconstruction to the present. Topics include conquest of the West, industrialization and its impact, various movements to reform America and the increasingly important role this country plays in international community. Special attention is paid to the modern legacy from America's past.

Prerequisites: E, R

204 MODERN EAST ASIA, FALL 3(3-0)

Explores traditional cultures of China and Japan, interaction with the West in the 19th and 20th centuries, and contemporary events and conditions in both nations. Examines how traditional political systems, social structures, economic systems, and religions and philosophies were progressively modified under impact of modernization but continue to influence contemporary culture. Studies effects of Western encroachment on East-West relations in modern period. Features evolution of Communist China and Japan's imperialist experiment.

Prerequisites: E, R

209 WOMEN IN THE WESTERN WORLD, SPRING 3(3-0)

Examines experience of women in selected sample of Western cultures from ancient world to modern times. Explores how societies create and modify definitions of gender-appropriate roles and behavior. Investigates how such definitions affect women as family members, workers, and participants in society. Analyzes how women respond historically to challenges and constraints of their lives and what insights past experiences and modern feminist theory offer for understanding gender issues in present.

Prerequisites: E, R

210 THE CIVIL WAR AND RECONSTRUCTION, SPRING 3(3-0)

The history of the United States Civil War and Reconstruction period. Topics include the causes of the war, slavery, military history, major battles, the impact of the war on slavery, the politics of Reconstruction, and the promise and problems of a biracial South. Special attention is paid to the legacy from the Civil War and Reconstruction on 21st-century America.

Prerequisites: E, R

HONORS (HONR)**101 HONORS BIOLOGICAL SCIENCE, FALL 4(3-2)**

Introduction to basic principles and concepts of biology as well as related laboratory experiences. Areas of emphasis include ecology, evolution, unity and diversity of life, molecular biology, genetics, cell biology, biotechnology and behavior. NOTE: Students with two (2) or more years of high school biology are recommended to take BIOL 111, BIOL 112, or BIOL 204.

Prerequisites: E, R, M

121 HONORS INTRODUCTION TO PSYCHOLOGY, FALL 3(3-0)

Description, understanding and control of human behavior. Two-fold aims: increase student ability to understand self and others and make more satisfactory adjustment to life and introduction to the field of Psychology.

Pre-requisites: E, R

141 HONORS NATIONAL GOVERNMENT, FALL, SPRING 3(3-0)

Structure and operation of national government; meaning and practice of democracy, power relationships, civil rights and liberties, and American method of conducting elections. Role of citizens and their choices.

Pre-requisites: E, R

150 HONORS CALCULUS I, FALL 1(1-0)

These one-hour Honors Credit courses are open only to those students who have been admitted to the Honors Program. These courses offer additional challenges in the form of lab, or field, or library research or enrichment activities that usually are not part of the regular courses. The student and the instructor agree upon a particular program of study for the semester at the beginning of the semester. To be registered in these additional honors credit courses, the student must either have already successfully completed the regular course or must be concurrently registered in the corresponding regular course. A variety of honors credit courses will be offered each fall semester.

Prerequisites: Concurrent enrollment in MATH151 or previous successful completion of MATH151. R, MATH128 and MATH130 with a C or better, or MATH135 with C or better or associated placement scores(s).

210 HONORS HEALTH & FITNESS, FALL 4(2-2)

This course combines classroom experience and personal exercise. Students establish knowledge of wellness, physical fitness, CV disease, nutrition, weight management, behavior modification, stress, cancer, addiction and sexually transmitted infections. Students implement an individualized exercise program and are required to exercise two days per week in the specified fitness center.

Prerequisites: None

241 HONORS COLLOQUIUM, FALL, SPRING 1(1-0)

The Honors Colloquium, offered every fall and winter semesters, involves an intensive study/research on a topic for that year to go along with the theme(s) of the public lectures for that year. All honors students are required to register for the Colloquium every semester they are in the Program. The Colloquium topic will be announced each year. The Colloquium incorporates open discussion of the main theme and mutual criticism of the study/research projects related to the main theme being done by the participants. The Colloquium includes attendance at the public lectures and discussion with these lecturers.

250 HONORS ENGLISH COMPOSITION, 3(3-0)

This course in the two semester English sequence focuses on expository writing and the closely related activities of critical reading and thinking. Primary attention is to be given to the formal elements of short essays based upon or incorporating documented source material.

251 HONORS ENGLISH COMPOSITION, 3(3-0)

Extension and intensification of elements writing and critical thinking covered in HONR 250. Particular emphasis given to formal, stylistic and rhetorical consideration and techniques involved in developing longer critical essays that incorporate documented evidence from broad range of source material.

258 HONORS LITERARY INTERPRETATION, SPRING 3(3-0)

Study of literature to develop sensitivity and skill in critical interpretation of poetry, drama, and prose fiction. Includes characteristics of different literary genre, their analysis, and increased reading and interpretation skills.

Prerequisites: E, R, HONR250 or ENGL101

HOSPITALITY MANAGEMENT (HOSP)

110 SANITATION, FALL, SPRING 1(1-0)

Sanitation policies necessary to effectively operate commercial food service facility. Students successful in course will receive Educational Foundation of National Restaurant Association Certification in Applied Food Service Sanitation and Michigan State Certification.

Prerequisites: E, R

111 RESPONSIBLE BEVERAGE SERVICE, FALL, SPRING 1(1-0)

This class explores the service policies and practices necessary to effectively serve alcohol in a hospitality establishment. Upon successful completion, students will receive ServSafe Certification in Applied Alcohol Service Training.

Prerequisites: E, R

113 NUTRITION AND DIET THERAPY, SPRING, SUMMER, FALL 3(3-0)

Basic principles of human nutrition including nutrients and allowances for various ages and normal conditions. Use of diet therapy in disease and abnormal conditions. Course directed to students interested in health-related professions including nursing and dietetics.

Prerequisites: E, M, R

115 SAFETY AND LEGAL OVERVIEW, FALL 3(3-0)

Course provides awareness of rights and responsibilities that law grants or imposes in the hospitality industry.

Prerequisites: E, R

117 INTRODUCTION TO MEETINGS AND EVENTS, SPRING 3(3-0)

Overview of the planning and implementation of meetings and events that includes types of meetings and events, site selection, marketing, food and beverage, budget, reservations and evaluation.

Prerequisites E, M, R

150 INTRODUCTION TO HOSPITALITY CAREERS, FALL, SPRING 3(3-0)

Covers career opportunities in restaurants, hotels, institutional feeding, travel and tourism, and hospitality management for those considering the hospitality industry as career.

Prerequisites: E, R

153 NUTRITION, FALL 3(3-0)

Characteristics, functions and major nutrient groups and how to maximize nutrient retention in food preparation and storage. Students learn nutrient needs through life cycle and apply principles to menu planning and food preparation.

Prerequisites: E, R

200 HOSPITALITY MANAGEMENT INTERNSHIP, FALL, SPRING FEE, 3(1-8)

Supervised work experience integrates academic study with hospitality industry experience in hotel/motel or restaurant work site. Students work 120 hours at assigned hospitality management sites and complete 15 hours of campus class time.

Prerequisites: E, M, R, HOSP 110, HOSP 115, HOSP 150, HOSP 252, students must meet with coordinator prior to enrollment.

201 RESTAURANT OPERATIONS, SPRING 3 (3-0)

Overview of Restaurant Operations that includes; menus, cost control, financial operations, training, staffing, equipment and product purchasing, marketing, regulations, sanitation, and customer service.
Prerequisites: E, M, R

202 INTRODUCTION TO CASINO MANAGEMENT, FALL 3(3-0)

This course provides an overview of casino operations and management. Topics include: gaming trends in the United States, government regulations, staffing, credit, security, marketing, entertainment and casino games. Elective course This course may be used as a substitute for Comm 101, Hosp 253, Hosp 116 and 117.
Prerequisites: E, M, R

250 FOOD PREPARATION SKILLS, SPRING FEE, 2(0-4)

Proficiency in tool, equipment usage, standardized recipes found in commercial kitchen and learn to insure high level of guest satisfaction. Emphasis on soup, sauces, entrees, salads, fruits and vegetables.
Prerequisites: M, R

251 MARKETING OF HOSPITALITY SERVICES, FALL 3(3-0)

Marketing mix related to hospitality service sector. Students learn why marketing is a hot topic in hospitality industry. Implementation of marketing concept in competitive climate in hospitality industry is essential to a successful student.
Prerequisites: E, M, R

252 SUPERVISORY SKILLS AND HUMAN RELATIONS, FALL 3(3-0)

Prepares student for transition from employee to supervisor. Students evaluate styles of leadership and develop effective skills in human relations and personnel management.
Prerequisites: E, R

253 TOURISM, SPRING 3(3-0)

Understanding of tourism, its nature, history and organization. Topics include cultural aspects, sociology, psychology and motivation, economics, forecasting demand, consumers, research and planning, and development for tourism industry.
Prerequisites: E, M, R

254 HOSPITALITY COST CONTROL SYSTEMS, SPRING 3(3-0)

Capstone course in financial control for hospitality student. Areas covered include room, food and beverage control systems, operating budget, income and cost control, menu pricing and practical application.
Co/Prerequisites: HOSP 150, E,M,R

255 HOTEL MANAGEMENT AND OPERATIONS, FALL 3(3-0)

Provides knowledge of the management of flow of operations to all hotel departments. Includes finance, front office, housekeeping, maintenance, marketing, engineering, information management, security, and food and beverage. Utilizes real-world case studies that correlate management problems with problem solving techniques.
Prerequisites: E, M, R

275 HOSPITALITY MANAGEMENT, FEE, 3(3-0)

In this course of food and beverage service students will discuss and practice customer services, proper service of foods and beverages, and basic table setting and decor. Students will also learn proper use and set up of serving dishes, utensils and glassware. Basic food preparation will be introduced, as well as introduction to the service of wine, liquors, and non-alcoholic beverages. This course will also include a full glossary of culinary terms.

HUMANITIES (HUMN)**105 AWARENESS OF THE FINE ARTS, ON DEMAND 1(1-0)**

Interdisciplinary study to develop awareness of interrelationships of various fine arts and investigate impact upon contemporary society from variety of perspectives. Various methods of instruction used, including independent reading or research, lecture and discussion, projects associated with field trip, or travel of recognizable educational value. If trip is major thrust of course, includes pre-trip preparation with readings, videos and written assignments and post-trip evaluation such as written assignment, journal or test.

201 INTRO TO THE ARTS, FALL, SPRING 3(3-0)

This cross-disciplinary course is intended to enhance individual critical sensibility and responsiveness to the arts. This course consists of two complimentary components: the first, an introductory survey of influential theories on criticism and on the nature of art; and the second, a survey of the distinguishing formal characteristics of major artistic media.
Prerequisites: E, R

207 INTRODUCTION TO STORY AND MEDIA, FALL 3(3-0)

Explores how nature and substance of stories humankind has used to express and define values have been shaped by various written and visual media used to communicate insights.
Prerequisites: E, R

208 INTERPRETING FILM AND FICTION, FALL 3(3-0)

Approaches to find and test meanings in films, short fiction, novels and plays. Particular works in media considered in terms of critical literacies each requires.
Prerequisites: E, R

209 INTRODUCTION TO THE ART OF CINEMA, FALL 3(3-0)

Social, cultural and artistic nature and significance of motion pictures. In addition to critical exploration of current films, touch-stone films used to document historical development of cinematic techniques and genres.
Prerequisites: E, R

210 ARTS IN THE MODERN WORLD, FALL 3(3-0)

Team-taught, cross-disciplinary introduction to major concepts, media and arts that both shape and reflect modern and post-modern culture.
Prerequisites: E, R

211 STUDIES IN FILM ART, SPRING 3(3-0)

Critical exploration of general concepts of genre, style, theme and technique of related films. Specific focus and films varies each semester, with emphasis indicated in class schedule.
Prerequisites: E, R, HUMN 209 or Consent of instructor

212 ARTS AND IDEAS I, FALL 3(3-0)

Survey of literature and philosophical works that form Western cultural heritage. Works representative of attitudes and artistic expression of major cultural periods examined for what they reveal about values of their cultures and relevance to life in 20th century. Contributions of these cultural periods considered: early Judeo-Christian religious thought and experience; philosophical insights and literary traditions of classical Greece and Rome; medieval synthesis of classical attitudes and Christianity; and culmination of these attitudes in Renaissance Humanism.
Prerequisites: E, R

213 ARTS AND IDEAS II, SPRING 3(3-0)

Continuation of HUMN 212 which is not prerequisite. Contributions of these cultural periods considered: Enlightenment; Romanticism; modern and contemporary times.
Prerequisites: E, R

221 PORTRAITS OF THE ARTIST, SPRING 3(3-0)

Major concepts that define artists in terms of unique identities, social roles and responsibilities to contemporary audiences and posterity.
Prerequisites: E, R

294 FIELD EXPERIENCE IN THE FINE ARTS, ON DEMAND 3(3-0)

Travel course of interdisciplinary nature where world of theatre, music, dance and visual arts explored in a metropolitan setting. Course may visit literary sites and participate in multicultural and international activities. Students assigned pre-trip readings, videos and written assignments; may complete trip journal; and have post-trip written assignment, test or other means of evaluation.

INDUSTRIAL MAINTENANCE TECHNOLOGY (INMT)**109 INTRO TO WELDING, FALL, SPRING FEE, 2(1-2)**

Basic skills and techniques in oxyacetylene welding and shielded metal arc welding. Introduction to welding for maintenance welders and welding technicians. Instruction and practice in brazing, flame cutting, electrode selection and various types of welds. Techniques of welding in all positions are learned through hands on practice. Safety hazards and safe practices in oxyacetylene welding, cutting and shielded metal arc are emphasized.
Prerequisites: none

110 MIG/TIG WELDING, FALL, SPRING FEE, 3(2-2)

Considers various gas metal arc welding (MIG) processes, including microwire, flux-core, innershield and submerged arc, with emphasis on metal inert gas welding. Provides extensive experience in gas tungsten arc welding (TIG). Students will demonstrate techniques of welding in MIG and TIG, in all positions, using various gauges of metal.
Prerequisites: none

120 BASIC HVAC, FALL, SPRING 3(2-2)

Fundamentals of heating and compression systems used in conditioning of air and controlled spaces. Includes combustion process, heat flow, temperature measurement, gas laws and heating and refrigeration cycles and components used in systems. Introduces basic service procedures used in industry.
Prerequisites: M, R

204 BASIC HYDRAULICS AND PNEUMATICS, FALL, SPRING FEE, 2(1-2)

Basic industrial fluid power systems common to field of industrial automation. Course includes basic principles, components, standards, symbols, cylinders, intensifiers, valves, motor circuit and related electrical control.
Prerequisites: M, R

205 HYDRAULICS AND PNEUMATICS MAINTENANCE, FALL FEE, 2(1-2)

Troubleshooting, preventive maintenance and repair methods for industrial fluid power systems common to field of industrial automation. Topics include pumps, cylinders, intensifiers, valves, motor circuits and related electrical control.
Prerequisite: INMT 204 or industrial experience

206 HYDRAULIC AND PNEUMATIC CIRCUITRY, SPRING FEE, 2(1-2)

Practical hydraulic and pneumatic power and control circuitry; selection of control methods and component sizing for desired function, timing, sequence, speed and pressure requirements. Considerations such as cost, efficiency, energy consumption and maintainability with practice in connecting circuits and testing proper function.
Prerequisite: INMT 204 or industrial experience.

240 PREDICTIVE AND PREVENTIVE MAINTENANCE, FALL, SPRING FEE, 3(2-2)

A comprehensive preventive maintenance program that will include: predictive maintenance, team- and individual-driven maintenance tasks, and corrective maintenance to provide comprehensive support for all plant production and manufacturing systems. This course will utilize regular evaluation of critical plant equipment, machinery and systems to detect potential problems, and develop appropriate timelines to prevent problems from occurring.
Prerequisites: E, M, R, INMT 205, ELEC 152 or related industrial experience.

LAW ENFORCEMENT (LAWE)**140 INTRODUCTION TO CRIMINAL JUSTICE, FALL, SPRING 3(3-0)**

History, philosophy and mechanics of several elements that comprise criminal justice system. Related responsibilities and vocational opportunities discussed. Designed to introduce students to criminal justice system.
Prerequisites: E, R

142 POLICE ORGANIZATION AND ADMINISTRATION, FALL, SPRING 3(3-0)

Functional divisions of organization and operation of modern police departments. Functions studied are management operations, communications, budgeting, public relations, recruiting and training.
Prerequisites: E, R

144 CRIMINOLOGY, FALL, SPRING 3(3-0)

Nature and development of criminal behavior. Emphasis on examination of leading theories concerning cause of crime, nature of criminal offender and treatment of convicted offenders. Public reaction to crime reviewed.
Prerequisites: E, R

250 JUVENILE DELINQUENCY AND BEHAVIOR, FALL, SPRING 3(3-0)

Problems of juvenile delinquency, theories on juvenile delinquency, work of youth agencies, legislative involvement and new approaches to prevention of juvenile crimes.
Prerequisites: E, R

251 SEMINAR IN CRIMINAL JUSTICE AND PUBLIC SAFETY, SPRING 3(1-4)

Current problems in criminal justice and public safety area. Special issues discussed and pre-service students assigned to agencies or departments as interns for field experience. Reports required.
Prerequisites: E, R

252 CRIMINAL PROCEDURE, SPRING 3(3-0)

Study of Anglo-American system for detecting, proving and punishing perpetrators of crime. Legal protection of citizens from improper searches, arrests and coerced confessions by constitution, statute and case law. Rules of evidence in assisting judicial search for truth covered.
NOTE: Only Corrections students should take this course.

LOGISTICS (LOGI)

101 INTRODUCTION TO LOGISTICS, FALL, SPRING 3(3-0)

This is an introductory course. It will explain why logistics is important in everyday living. The course will provide an overview of five subsectors of logistics: rules and regulations, domestic transportation, warehouse, inventory, and purchasing.
Prerequisites: none

MACHINE TOOL TECHNOLOGY (MACH)

110 MACHINE TOOL I, FALL, SPRING FEE, 3(1-4)

Introductory course includes theory, demonstrations and shop experience. Basics in safety, blueprint reading, layout, band sawing, machine setup, lathe work, milling machine work, surface grinding. Machine theory and machine application comply with National Institute for Metalworking Skills (NIMS) Level I Machining Skill Standards.
Prerequisites: none

120 MACHINE TOOL II, FALL, SPRING FEE, 3(1-4)

Advanced course covers metals, their composition and heat treatment, machining of threads and tapers on a lathe, milling of gears and other advanced machining and precision machining techniques. Machine theory and machine applications comply with National Institute for Metalworking Skills (NIMS) Level I and Level II Machining Skill Standards.
Prerequisites: MACH 110

129 USE OF MACHINERY'S HANDBOOK, FALL 2(2-0)

Selected topics will enable the student to find and interpret information within the Machinery's Handbook and will provide resource information for future reference.
Prerequisites: M, R, MACH 110, MATH 100

130 PRECISION INSPECTION, FALL, SPRING 3(3-1)

Methods of inspecting industrial products. Emphasis on measuring devices such as sine bar, gage blocks, micrometers, vernier scales, electronic comparator, and coordinate measuring machine. Students will develop skills in basic blue print reading, geometric dimensioning and tolerancing, understanding datums, and using the inch and metric systems.
Prerequisites: M,R or by permission of instructor

140 INTRODUCTION TO NUMERICAL CONTROL (NC) COMPUTER NUMERICAL CONTROL (CNC), FALL, SPRING FEE, 2(1-2)

Numerically controlled machines for metal cutting. Required course for students enrolled in Machine Tool program, also recommended as introductory experience for employees attending factory training schools in future. Systems studied include microcomputer-controlled machines and CAD/CAM systems.
Prerequisites: M, R, MACH 110 or by permission of instructor

150 INTRODUCTION TO CAM, FALL, SPRING, SUMMER FEE, 2(1-2)

Introductory course which includes the basic concepts of CAM usage and progresses to Geometric definition, 2D Toolpaths, 3D Contouring and Surface Machining.
Prerequisites: M,R or by permission of instructor.

220 PRESSWORKING OF METALS/MOLD MAKING, SPRING 3(1-4)

Principles of die and mold making. Exit-level course in conventional and CNC machining methods. Students apply knowledge learned from previous courses and construct assigned die or mold. Course must be taken concurrently with DRAF 202.
Prerequisites: M, R, MACH 110, DRAF 101, DRAF 102

231 CMM FUNDAMENTALS, FALL, SPRING 2(1-2)

Advanced course that focuses on the usage of a Coordinate Measuring Machine and its impact on industry.
Prerequisites: M, R, MACH 130 or by permission of instructor.

241 CNC PROGRAMMING I, FALL, SPRING, SUMMER FEE, 2(1-2)

Second of three courses in CNC sequence and required for students in Machine Tool program. Course teaches students to program numerically controlled machine tool and machine shape called out on part print. Programs for three axis machines prepared and used to make completed parts. Students learn to select appropriate fixtures, tools, inserts, speeds, feeds and depth of cuts. Laboratory concentrates on preparation and debugging of tool path, tool application, selection of speeds and feeds, and auxiliary machine functions. Employs special features of computerized machining such as contour interpolations, absolute incremental switching, inch/metric selection and tool offsets.
Prerequisites: M, R, MACH 140 or by permission of instructor

242 CNC PROGRAMMING II, FALL, SPRING FEE, 2(1-2)

This the third of three course in the CNC sequence. An elective course for students in the Machine Tool Program. Content designed to provide opportunity for student to gain advance programming skills. Students will employ special advance features of computerized machining such as polar coordinate programs and special machine programming functions. All instruction pertaining to CNC machine theory and CNC machine application comply with National Institute for Metalworking Skills (NIMS) Level II and Level III Machining Skill Standards.
Prerequisites: M, R, MACH 241 or by permission of instructor.

251 2D/3D MACHINING, FALL, SPRING, SUMMER FEE, 2(1-2)

Advanced course with a focus on CAM concepts such as surface and 3D machining.
Prerequisite: M, R, MACH 150 or by permission of instructor.

MANUFACTURING TECHNOLOGY (MANU)

111 MANUFACTURING PROCESSES I, FALL, SPRING 3(2-2)

Introductory course includes historical perspective of manufacturing, materials processing, product development, material selection and business principles and functions as related to manufacturing. May be offered in alternate formats.

Prerequisites: M, R

112 INTRODUCTION TO FABRICATION, FALL, SPRING, SUMMER FEE, 4(2-2)

Students will learn to use commercially available technologies to "conceptualize, design, develop, fabricate and test" objects. The Lab features advanced computer software and contemporary tools for cutting, milling, electronics, engraving, and other processes of rapid and automated prototyping. Products and processes are typically individualized but can be developed entrepreneurially for commercial production.

Prerequisites: None

120 FUNDAMENTALS OF PROGRAMMABLE CONTROLLERS, FALL, SPRING FEE, 2(1-2)

Introductory course to familiarize students with programmable controllers. Units include logic, input/output capabilities, programming and entering and editing programs.

Prerequisites: M, R

122 INTRODUCTION TO ROBOTICS, FALL, SPRING 1(1-0)

Types of robots, axis designation, application, terminology, drive systems and control systems as related to industrial robots.

Prerequisite: R

123 PROGRAMMABLE LOGIC CONTROLLERS II, SPRING 2(1-2)

Course designed to follow MANU 120. Concentrates on system maintenance and upper-level functions of programmable controllers including system maintenance and installation, peripheral operations, program control instructions and report generation.

Prerequisites: M, R, MANU 120

130 STATISTICAL PROCESS CONTROL, SPRING 3(3-0)

Basic statistical process control and capability analysis. Students learn how to collect data to be organized into control charts to improve process and determine process capability. Topics include prevention versus detection, causes of variation, and introduction to, construction and use of control charts.

Prerequisites: E, M, R

213 COOPERATIVE INDUSTRIAL PRACTICE, 3(1-4)

Supervised on-the-job training in approved industrial setting, which integrates students' academic study with work experience.

Prerequisites: Permission of coordinator

214 COOPERATIVE INDUSTRIAL PRACTICE, 3(1-4)

Continuation of MANU 213.

Prerequisites: Permission of coordinator

215 FAB LAB I, FALL, SPRING, SUMMER FEE, 4(2-2)

Students will develop science and engineering skills by having hands-on access to high-tech manufacturing processes, specialized embedded software, computer-aided design software, and mechanical subsystems. The Fab Lab will provide applied technical opportunities in an industry that is continuously changing and redefining itself. *Prerequisites: MANU112*

251 COMPETITIVE ROBOTICS SEMINAR, FALL FEE, 4(2-4)

This course provides the theory and background preparation for entry into a robotics competition. Students will focus on the design, programming, engineering, and building techniques in robot design. In preparation the team will market and develop funds for the competition, research competition and competitor statistics, and work cohesively to gain a broad understanding of robotics concepts.

Prerequisites: None

MATHEMATICS (MATH)

*NOTE: *This is a transitional course, college credit not received.*

Courses that have identification numbers below 100 do not count toward total credit hours needed to earn a Certificate or Associate Degree.

MATHEMATICS MINI-COURSE DESCRIPTIONS, FALL, SPRING, SUMMER

Basic mini-courses are designed to provide remedial or review work for students with deficiencies in specific areas of basic math. The seven units of Basic Mathematics (090) are paired in a variety of combinations to serve as one-credit mini-courses.

The materials covered in each of the seven units of Basic Mathematics are as follows:

WHOLE NUMBERS - representation, rounding, addition, subtraction, multiplication, division, primes, powers and roots.

FRACTIONS - definitions, equivalents, addition, subtraction, multiplication and division.

DECIMALS - representation, rounding, binary operations and applications.

RATIO AND PROPORTION - definitions and applications.

PERCENT - percents as fractions, finding a percent of a number, fractions as percents and applications of percents.

PRACTICAL GEOMETRY - basic concepts, perimeters, circumferences and areas.

* Must have Math lab permission slip*

060 Whole Numbers and Fractions	1(1-0)
061 Whole Numbers and Decimals	1(1-0)
062 Whole Numbers, Ratio and Proportion	1(1-0)
063 Whole Numbers and Percent	1(1-0)
064 Whole Numbers and Practical Geometry	1(1-0)
066 Fractions and Decimals	1(1-0)
067 Fractions, Ratio and Proportion	1(1-0)
068 Fractions and Percent	1(1-0)
069 Fractions and Practical Geometry	1(1-0)
071 Decimals, Ratio and Proportion	1(1-0)
072 Decimals and Percent	1(1-0)
073 Decimals and Practical Geometry	1(1-0)
075 Ratio, Proportion and Percent	1(1-0)
076 Ratio, Proportion and Practical Geometry	1(1-0)
078 Percent and Practical Geometry	1(1-0)

***090 BASIC MATHEMATICS,
FALL, SPRING, SUMMER** 4(4-0)

Individualized competency-based or lecture course in basic mathematical skills. Students placed by assessment results at appropriate level at beginning of course. Proficiency at 70-percent level must be demonstrated in each unit before progressing to next unit. Basic Mathematics covers whole numbers, fractions, decimals, ratio and proportion, percent, practical geometry and/or introduction to algebra.

Prerequisites: READ 083 with a "C." or better or associated placement test score(s).

***095 ELEMENTARY ALGEBRA,
FALL, SPRING, SUMMER** 4(4-0)

The course covers all topics normally taught in a one-year beginning algebra course. Topics covered: sets and numeration systems; the set of integers: multiplication and division, algebraic operations, equations; introduction to factoring; factoring techniques; basic fractional operations; addition, subtraction, multiplication and division of complex fractions; introduction to the rectangular coordinate system; systems of equations.

Prerequisites: R, M

100 APPLIED MATHEMATICS, FALL 4(4-0)

Basic mathematics needed in occupational fields such as machine tool, electronics, industrial manufacturing, service and maintenance, etc. Topics include fractions, percent, decimals, angular measurement, square root, basic geometry, formulas and basic algebra conversions. Practice and practical applications.

110 TECHNICAL MATHEMATICS I, SPRING 4(4-0)

Introduction to mathematics applicable to technical areas. Includes topics in dimensional analysis, problem solving, approximate numbers, trigonometry of right angle and oblique triangles, vectors, radian measure, algebra and geometry applications and metric measurement and conversion.

Prerequisites: MATH 100 or MATH 095 with "C." or better, or high school algebra

**122 INTERMEDIATE ALGEBRA,
FALL, SPRING, SUMMER** 4(4-0)

Provides students with sufficient algebraic knowledge and skills for success in subsequent mathematics or science courses. Brief review of four fundamental operations, real number system, factoring, fractions, linear and fractional equations and inequalities, linear and quadratic functions and their graphs, systems of equations, determinants and Cramer's rule, exponents and radicals, quadratic equations.

Prerequisites: R, MATH 095 with "C." or better, or associated placement test score(s).

**128 PRE-CALCULUS ALGEBRA,
FALL, SPRING** 4(4-0)

Prepares students for calculus. Topics include review of exponents and factoring, equations, graphs and functions, composite functions, inverse functions, exponential and logarithmic functions, systems of equations, linear programming, complex numbers, sequences and binomial theorem.

Prerequisites: R, MATH 122 with C or better, or associated placement test score(s).

130 PRE-CALCULUS TRIGONOMETRY, FALL, SPRING 3(3-0)

Fundamental concepts of trigonometry and elementary applications of results. Topics include angle measure, fundamental identities, variation and graphs of trigonometric functions, right-angle trigonometry, equations and polar coordinates. For students who intend to take calculus, this course may be taken concurrently with MATH 128.

Prerequisites: R, MATH 122 with C or better, or associated placement test score(s).

135 PRECALCULUS ALGEBRA/TRIG, FALL, SPRING 5(5-0)

This course is designed to provide the student with basic algebraic and trigonometric concepts necessary for calculus. Topics include: real numbers, inequalities, coordinate systems, functions, polynomials, solutions of polynomial equations, exponential and logarithmic functions, trigonometry and trigonometric functions.

Prerequisites: R, MATH 122 with C or better, or associated placement test score(s).

151 CALCULUS I, FALL, SPRING 5(5-0)

Study of calculus of single variable. Topics include limits, derivative and integral properties of algebraic and transcendental functions and elementary applications of derivatives and integrals.

Prerequisites: R, MATH 128 and MATH 130 with "C" or better, or MATH 135 with "C" or better, or associated placement test score(s).

**200 MATH FOR ELEMENTARY TEACHERS,
FALL, SPRING** 4(4-0)

For students preparing to teach grades K-6. Gives prospective teacher thorough understanding of important mathematical concepts, terminology and relationships. Helps students see how these concepts are presented to children at each grade level. Students expected to observe teaching of elementary children in actual classroom.

Prerequisites: R, MATH 095 with "C." or better, or associated placement test score(s).

201 CALCULUS II, SPRING 5(5-0)

Continuation of MATH 151. Topics include analytic geometry, techniques and applications of integration, infinite series, polar coordinates and vectors in two space.

Prerequisites: R, MATH 151 with "C" or better.

202 CALCULUS III, FALL 5(5-0)

Calculus with multiple independent variables. Topics include three-dimensional vectors, partial derivatives, multiple integrations and vector analysis.

Prerequisites: R, MATH 201 with "C" or better.

205 TECHNICAL MATHEMATICS II, ON DEMAND 4(4-0)

Applied course for students in engineering and industrial technologies. Includes selected topics from analytic geometry, derivatives, integrals and their applications.

Prerequisite: MATH 110 or MATH 130

**210 GEOMETRY FOR ELEMENTARY TEACHERS,
FALL, SPRING** 4(4-0)

This course explores the fundamental ideas of planar and spatial geometry. Topics include: analysis and classification of geometric figures; geometric transformations; symmetry; measurement. This course includes an introduction to the use of computers in the teaching and learning of informal geometry. This course is designed specifically to transfer Western Michigan University's elementary education program and may not transfer to other institutions.

Prerequisites: R, MATH 200 with "C" or better.

216 INTRODUCTION TO STATISTICS, FALL, SPRING 3(3-0)

Statistical decision-making. Topics include sampling techniques, tabular and graphical data, measures of central tendency and variability, simple probability, probability distributions (binomial, normal, t, chi-square and F), central limit theorem, correlation and regression, estimation, hypothesis testing, and analysis of variance.
Prerequisite: E, R, MATH 122 with C or better or equivalent

252 DIFFERENTIAL EQUATIONS, SPRING 4(4-0)

Ordinary differential equations. Topics include equations with variables separable, homogenous equations, exact equations, integrating factors, linear equations with constant coefficients, simultaneous linear equations and Laplace transformations. Applications to physics and engineering.
Prerequisites: R, MATH 201 with "C" or better, or MATH 202 with "C" or better.

265 PROBABILITY AND STATISTICS FOR ELEMENTARY/MIDDLE SCHOOL TEACHERS, FALL, SPRING 4 (4-0)

This course explores the basic concepts of statistics and probability appropriate for elementary and middle school teachers. Topics include statistical techniques for organizing, summarizing, presenting, and interpreting data; sampling techniques; simulation methods; counting techniques; and analytic methods in probability. Graphing calculators are used to reinforce major course ideas.

This course is designed specifically to transfer Western Michigan University's elementary education program and may not transfer to other institutions.

Prerequisites: R, MATH 200 with "C" or better.

MAGNETIC RESONANCE IMAGING (MRIT)

100 INTRODUCTION TO THE MRI PATIENT, SUMMER 3(3-0)

This introductory course covers the fundamentals of the MRI systems including components and hardware as well as patient care, safety and medical ethics. Topics covered will prepare the MRI student for integration within the MRI department at the clinical sites.

Prerequisites: E,M,R, Licensure as RT (R), RT (NM), RT (T), RT(S), or RDMS or acceptance into the MRI program.

101 CLINICAL EXPERIENCE A, SUMMER FEE, 1(0-2)

A three week introductory course designed to acquaint the MRI student with their assigned clinical site. Major emphasis will be placed on professional standards and appearance, fundamental knowledge of the hardware and system components as patient safety and care in the MRI department.

Prerequisites: E,M,R Licensure as RT (R), RT (NM), RT (T),RT(S), or RDMS or acceptance into the MRI program.

102 MRI ANATOMY I, FALL 3(3-0)

This course will provide the MRI student with anatomy, scan protocols, scan parameters and slice positioning as related to imaging the head and neck. In addition, normal anatomy is compared with common pathologies.

Prerequisites: E,M,R, MRIT 100

103 MRI PHYSICS I, FALL FEE, 3(3-0)

The first in a two semester course that will cover the basic principles of MRI, data acquisition, and tissue characteristics (proton spin, relaxation times, phasing and de-phasing) in image formation.

Prerequisites: E,M,R, MRIT 100 and MRIT 101

104 MRI IMAGING ANALYSIS I, FALL 2(2-0)

The first in a two semester course that supplements MRI Physics. Discussions and image analysis will focus on the neuro imaging portion of MRI with emphasis on optimal imaging and quality control
Prerequisites: E,M,R, MRIT100 and MRIT 101

105 CLINICAL EXPERIENCE B, FALL 3(0-24)

The second in a four semester sequence of scanning applications and techniques for the head and neck. Additional time may be spent on spine and extremity work.

Prerequisites: E,M,R, MRIT101, MRIT 100

106 MRI ANATOMY II, SPRING 3(3-0)

This course will provide the MRI student with anatomy, scan protocols, scan parameters and slice positioning as related to imaging the spine and neck. In addition, normal anatomy is compared with common pathologies.

Prerequisites: E,M,R, MRIT102, MRIT103, MRIT104 and MRIT105

107 MRI PHYSICS II, SPRING 3(3-0)

The second in a two semester course that provides a comprehensive overview of MRI pulse sequences, imaging parameters and image quality control.

Prerequisites: E,M,R, MRIT103, MRIT 102, MRIT 104 and MRIT 105

108 MRI IMAGING ANALYSIS II, SPRING 2(2-0)

The second in a two semester course which supplements MRI Physics. Topics covered will include advanced and pathological scanning protocols in neuro, orthopedic and special imaging procedures.

Prerequisites: E,M,R, MRIT103, MRIT 104 and MRIT 105

109 MRI CLINICAL EXPERIENCE C, SPRING FEE, 3(0-24)

The third in a four semester sequence clinical application in which the student will develop competency levels in neuro and orthopedic scanning techniques.

Prerequisites: E,M,R, MRIT102, MRIT103, MRIT 104 and MRIT 105

110 MRI IMAGING AND ANATOMY III, SUMMER 3(3-0)

This course will provide the MRI student with anatomy, scan protocols, scan parameters and slice positioning as related to imaging the spine and neck. In addition, normal anatomy is compared with common pathologies.

Prerequisites: E,M,R, MRIT106, MRIT107, MRIT108 and MRIT109

111 MRI CLINICAL EXPERIENCE D, SPRING FEE, 3(0-40)

The final in a four semester sequence of clinical application. This course covers advanced scanning applications in cardiac and functional MRI.

Prerequisites: E,M,R, MRIT106, MRIT 107 and MRIT109

112 MRI CLINICAL EXPERIENCE E, SUMMER FEE, 5(0-40)

This course provides additional clinical experience for those students continuing on at Lake Michigan College for an Associates in Applied Science. The Course allows students to gain additional clinical experience.

Prerequisites: E,M,R, MRIT111 and MRIT 110

113 MRI REGISTRY REVIEW, SUMMER 2(2-0)

This course provides the student with review and self-examination as a preparation for the certificate exam in Magnetic Resonance Imaging.

Prerequisites: E,M,R, MRIT110 and MRIT 111

MUSIC (MUSI)

All music courses involve required concert attendance.

ENSEMBLES:

101 CONCERT CHOIR, FALL, SPRING 2(0-4)

Varied range of sacred and secular music for purpose of study and performance. Choir performs in regular concerts each semester. Opportunity for small ensemble participation. Open to all students and community members with vocal ability through audition. May be repeated for credit.

103 SYMPHONIC WIND ENSEMBLE-SOUTHSHORE CONCERT BAND, FALL, SPRING 2 (0-4)

Music ranging from traditional through contemporary styles. Open to all students and community members, through audition, with interest in performing concert band music. May be repeated for credit.

104 JAZZ BAND, FALL, SPRING 1(0-2)

Music in all styles of jazz and rock idioms. Includes techniques of rehearsing stage band, playing of student arrangements and performance of jazz compositions, and arrangements in concert and various rock idioms. Open to all students by audition. May be repeated for credit.

106 VOCAL CHAMBER ENSEMBLE,

A varied range of sacred and secular vocal music is covered for the purpose of study and performance. The ensemble performs in regular concerts each semester. Open to all students and community members with vocal ability through audition. May be repeated for credit.

108 SHOW CHOIR, FALL, SPRING 2(0-2)

Musical theatre and jazz music; open through audition. Performs regularly during semester, accompanied by small instrumental ensemble. Staging and choreography as important parts of performances. May be repeated for credit.

CLASSROOM COURSES:

109 MUSIC APPRECIATION, FALL, SPRING 3(3-0)

Exposure to various compositions and techniques from major periods of music history beginning with antiquity, including 20th-century contemporary works and brief look at jazz. For non-Music majors. *Prerequisites: E, R*

110 INTRODUCTION TO MUSIC THEORY, (ON-DEMAND) 2(2-0)

Music notation, sight-reading, keyboard and music terminology. For students to learn fundamentals of music as well as prospective Music majors or minors who have little or no theoretical training.

113 VOICE CLASS, FALL, SPRING 2(2-0)

Fundamentals of vocal production including posture, breathing and diction. Students perform in class on regular basis. Open to all students as well as Music majors and minors.

114 PIANO CLASS I, FALL, SPRING 2(2-0)

Beginning piano class for students with little or no prior musical experience. Focus on learning to read music as well as harmonization and transposition.

115 PIANO CLASS II, FALL, SPRING 2(2-0)

Continuation of Piano Class I, with emphasis on increased keyboard facility through technical study, acquisition of simple repertoire, harmonization and transposition. *Prerequisite: MUSI 114*

162 BASIC MUSIC I, 3(3-0)

A study of traditional harmony through analysis and part writing including a review of fundamentals, diatonic triads in inversion, cadences and non-chord tones. For music majors and minors. *Prerequisite: E, R, MUSI 110 with a grade of C or higher. Corequisite: MUSI 114 and MUSI 164*

163 BASIC MUSIC II, 3(3-0)

Continuation of MUSI 162. The study of diatonic and chromatic harmony through analysis and part writing, including diatonic, and secondary 7th chords, the Neapolitan chord, augmented sixth chords, and modulation to foreign keys. *Prerequisite: E, R, MUSI 162 OR MATH 095 with a grade of C or higher. Corequisite: MUSI 115 and MUSI 165*

164 AURAL COMPREHENSION I, 1(0-2)

Sight-reading, prepared performance and improvisation of melodies using solfège syllables, dictation, recognition of musical events, and ensemble skills. The course concentrates on diatonic melodies, simple and compound divisions of beat, intervals, and triads. *Prerequisite: Acceptance into MUSI 162 Corequisite: MUSI 114 and MUSI 162*

165 AURAL COMPREHENSION II, 1(0-2)

A continuation of MUSI 164. Sight-reading, prepared performance and improvisation of melodies using solfège syllables, dictation, recognition of musical events, and ensemble skills. This course concentrates on diatonic melodies, simple and compound divisions of the beat, triads and seventh chords, and harmonic dictation. *Prerequisite: MUSI 164 with a grade of "C" or better Corequisites: MUSI 115 and MUSI 163*

185 GUITAR CLASS I, 1(1-0)

Group instruction in guitar fundamentals for the student who has had little or no previous experience. The course will provide basic instruction in using the guitar as an accompanying instrument and as a solo or melody-playing instrument, and will provide the fundamentals of music reading. The student will be required to have access to a Classical or Folk type guitar.

186 GUITAR CLASS II, 1(1-0)

A continuation of Guitar Class I. Instruction will be provided on bar chords, transposition, improvisation, tablature, and various strumming techniques. The student will be required to have access to a Folk or Classical type guitar. *Prerequisites: Musi 185 or permission of the instructor*

187 HISTORY OF ROCK MUSIC, FALL, SPRING 3(3-0)

The course seeks to deepen students' understanding of modern society and culture through the examination of rock and roll music. The development and evolution of the music's diverse styles are explored within the context of sociological and political events. *Prerequisites: E, R*

190 PERCUSSION ENSEMBLE, SPRING 2(0-2)

This course provides students with the opportunity to learn percussion techniques and literature through rehearsal and performance in a chamber setting. The repertoire is diverse, including pieces for keyboard percussion, non-pitched percussion works, jazz oriented music and compositions featuring the entire family of percussion instruments. Open to music majors and non-music majors with an interest and background in percussion. Permission of instructor required.

200 MUSIC FOR THE ELEMENTARY TEACHER, FALL, SPRING 3(3-0)

Designed for elementary education majors and assuming little or no musical background, this course will develop skill in the teaching and the performing of music in the elementary classroom setting. Students will develop fundamental musical skills, organize and develop musical activities and lesson plans, as well as explore the integration of music across the curriculum and in specialized areas.

Prerequisites: E, R

213 MUSIC HISTORY I, FALL 3(3-0)

Survey course of music in Western world from antiquity through Twentieth Century. Covers Middle Ages, Renaissance, Baroque and early Classical periods.

Prerequisites: E, R

214 MUSIC HISTORY II, SPRING 3(3-0)

Survey course of music in Western world from antiquity through Twentieth Century. Covers later Classical period, Romantic period and Twentieth Century. American composers of Twentieth century emphasized.

Prerequisites: E, R

262 BASIC MUSIC III, 3(3-0)

A continuation of MUSI 163. A study of the principles and techniques of organization in tonal music, including fugue, binary and ternary forms, sonata, theme and variation, rondo, and one-part forms through analysis and composition.

Prerequisite: E, R, MUSI 163 with a grade of "C" or higher

Corequisite: MUSI 264

263 BASIC MUSIC IV, 3(3-0)

A continuation of MUSI 262. A study of the organizational techniques of 20th century music, including the extension of chromaticism in late 19th century music, impressionism, pandiatonicism, polytonality, modality, 20th century tonality, atonality, serial techniques and minimalism.

Prerequisite: E, R, MUSI 262 with a grade of "C" or higher

Corequisite: MUSI 265

264 AURAL COMPREHENSION III, 1(0-2)

A continuation of MUSI 165. Sight-reading, prepared performance and improvisation of melodies using solfège syllables, dictation, recognition of musical events, and ensemble skills. This course concentrates on chromatic melodies with modulation, changing and composite meters, and harmonic dictation.

Prerequisite: MUSI 165 with a "C" or higher

Corequisite: MUSI 262

265 AURAL COMPREHENSION IV, 1(0-2)

A continuation of MUSI 264. Sight-reading, prepared performance and improvisation of melodies using solfège syllables, dictation, recognition of musical events, and ensemble skills. This course concentrates on modes, asymmetrical meters, altered chords, and interval music.

Prerequisite: MUSI 264 with a grade of "C" or higher

Corequisite: MUSI 263

Instrumental students must own or have access to an instrument before enrolling in applied lessons.

APPLIED MUSIC:

1-credit hour lesson = 1/2 hour private lesson per week requiring 1 hour daily practice.

2-credit hour lesson = 1 hour private lesson per week requiring 2 hours daily practice - limited to Music majors or with permission of instructor.

All Applied Music classes involve required concert attendance.

Instrumental students must own or have access to an instrument before enrolling in applied lessons.

THE FOLLOWING APPLIED MUSIC CLASSES

(private music instruction)

ARE OFFERED FALL AND WINTER

When offered, one-credit hour classes are available during the Spring and Summer sessions. Placement in class level determined by instructor.

100 BEGINNING APPLIED MUSIC,

The following one-credit hour, Beginning Applied Music classes are individual instruction, intended for personal enrichment:

May be repeated three times for credit

A	Beginning Voice (Prerequisite: MUSI 113)	FEE, 1(0-.5)
	Beginning Clarinet	FEE, 1(0-.5)
	Beginning Trumpet, Cornet	FEE, 1(0-.5)
	Beginning French Horn	FEE, 1(0-.5)
	Beginning Trombone, Euphonium, Baritone	FEE, 1(0-.5)
	Beginning Tuba	FEE, 1(0-.5)
	Beginning Flute	FEE, 1(0-.5)
	Beginning Oboe	FEE, 1(0-.5)
	Beginning Bassoon	FEE, 1(0-.5)
B	Beginning Piano (Prerequisite: Music 115)	FEE, 1(0-.5)
	Beginning Pipe/Electric Organ	FEE, 1(0-.5)
	Beginning Saxophone	FEE, 1(0-.5)
	Beginning Percussion	FEE, 1(0-.5)
	Beginning Violin	FEE, 1(0-.5)
	Beginning Viola	FEE, 1(0-.5)
	Beginning Cello	FEE, 1(0-.5)
	Beginning String Bass	FEE, 1(0-.5)
C	*Beginning Electric/Acoustic Guitar	FEE, 1(0-.5)
D	*Beginning Classical Guitar	FEE, 1(0-.5)
	*(Prerequisite music 186)	
	Beginning Applied Harp	FEE, 1(0-.5)

The following one-credit hour, college-level Applied Music classes require an audition or permission of instructor to qualify and include individual instruction for Music majors or highly-proficient musicians. All students are required to perform to a jury:

120 Applied Voice	FEE, 1(0-.5)
130 Applied Piano	FEE, 1(0-.5)
134 Applied Pipe/Electric Organ	FEE, 1(0-.5)
140 Applied Trumpet, Cornet	FEE, 1(0-.5)
142 Applied French Horn	FEE, 1(0-.5)
144 Applied Trombone, Euphonium, Baritone	FEE, 1(0-.5)
146 Applied Tuba	FEE, 1(0-.5)
150 Applied Flute	FEE, 1(0-.5)
152 Applied Oboe	FEE, 1(0-.5)
154 Applied Bassoon	FEE, 1(0-.5)
156 Applied Clarinet	FEE, 1(0-.5)
158 Applied Saxophone	FEE, 1(0-.5)
160 Applied Percussion	FEE, 1(0-.5)

170 Applied Violin	FEE, 1(0-.5)
172 Applied Viola	FEE, 1(0-.5)
174 Applied Cello	FEE, 1(0-.5)
176 Applied Electric Bass	FEE, 1(0-.5)
178 Applied Acoustic/Electric Guitar	FEE, 1(0-.5)
180 Applied Classical Guitar	FEE, 1(0-.5)
181 Applied String Bass	FEE, 1(0-.5)
188 Applied Harp	FEE, 1(0-.5)

The following two-credit hour, college-level Applied Music classes are for Music majors and other accomplished musicians. Successful completion of one-credit hour college class in instrument or permission of instructor a prerequisite for all classes. All students are required to perform for a jury:

May be repeated three times for credit

220 Applied Voice	FEE, 2(0-1)
230 Applied Piano	FEE, 2(0-1)
233 Applied Piano/Rhythm, Jazz, Blues	FEE, 2(0-1)
234 Applied Pipe/Electric Organ	FEE, 2(0-1)
240 Applied Trumpet, Cornet	FEE, 2(0-1)
242 Applied French Horn	FEE, 2(0-1)
244 Applied Trombone, Euphonium, Baritone	FEE, 2(0-1)
246 Applied Tuba	FEE, 2(0-1)
250 Applied Flute	FEE, 2(0-1)
252 Applied Oboe	FEE, 2(0-1)
254 Applied Bassoon	FEE, 2(0-1)
256 Applied Clarinet	FEE, 2(0-1)
258 Applied Saxophone	FEE, 2(0-1)
260 Applied Percussion	FEE, 2(0-1)
270 Applied Violin	FEE, 2(0-1)
272 Applied Viola	FEE, 2(0-1)
274 Applied Cello	FEE, 2(0-1)
276 Applied Electric Bass	FEE, 2(0-1)
278 Applied Acoustic/Electric Guitar	FEE, 2(0-1)
280 Applied Classical Guitar	FEE, 2(0-1)
281 Applied String Bass	FEE, 2(0-1)
288 Applied Harp	FEE, 2(0-1)

NATURAL SCIENCE (SCIE)

*NOTE: *This is a transitional course, college credit not received. Courses that have identification numbers below 100 do not count toward total credit hours needed to earn a certificate or associate degree.*

*095 FUNDAMENTALS OF SCIENCE REASONING, FALL, SPRING, SUMMER 4(3-2)

Provides students the opportunity to develop science reasoning skills and thought processes that are critical in all College-level science courses. Areas covered include scientific process, observations, value judgments, inferences; experimental set-up, data collection, variables; scientific communication; study techniques; problem solving, basic statistical analysis, graph interpretation, spatial relationships; measurements, metric system, estimation; and basic laboratory skills.

NURSING (NURS)

130 PHARMACOLOGY I, FALL 2(2-0)

Nursing 130 is the introduction of basic principles of pharmacology including pharmacodynamics, pharmacokinetics, legal aspects, controlled substances, drug testing, and specific selected categories. Also included is the study of pharmacology math. Principles are based on the concepts of the role of the nurse as well as the concepts of client centered care, critical thinking, communication, accountability, and competence along the health continuum and across the lifespan.

Prerequisites: E, M, R, READ 110, BIOL 205, CIS 102, CHEM 105, and acceptance into the nursing program or permission of instructor/coordinator.

135 PHARMACOLOGY II, SPRING 2(2-0)

Nursing 135 builds on Nursing 130, continuing and expanding upon concepts learned. The focus of this course is the study of selected classifications of medications and the nurse's role in administering and monitoring them. Principles are based on the concepts of the role of the nurse as well as the concepts of client-centered care, critical thinking, communication, accountability, and competence. Learning focuses on the care of the individual across the healthcare continuum and throughout the life span.

Prerequisites: E, M, R, READ 110, BIOL205, BIOL 206, CIS 102, CHEM 105, ENGL 101, PSYC 201, NURS 130, NURS 180, and acceptance into the nursing program or permission of instructor/coordinator

180 NURSING FUNDAMENTALS, FALL FEE, 6(3-9)

Nursing 180 is a fundamental course where students learn the philosophy of nursing, including the roles of the nurse as provider of care, manager of care, and member of a profession. Nursing uses a base of science, art, and technology to guide the student towards identifying self as an individual and nurse in the associate degree or the practical nurse role within the environment. The concepts of client-centered care, critical thinking, communication, accountability, and competence along the health continuum and across the lifespan are integrated. Students learn theoretical concepts, skills and principles basic to the care of individuals with common health problems. Beginning medical-surgical concepts are introduced. Learning is applied by planned experiences in the classroom, nursing laboratory, and acute and long-term care facilities in the community throughout the semester.

Prerequisites: E, M, R, READ 110, BIOL 205, CIS 102, CHEM 105, and acceptance into the nursing program or permission of instructor/coordinator.

185 WOMEN'S HEALTH, SPRING FEE, 4(2.4-4.8)

Nursing 185 builds on Nursing 180, continuing and expanding the base of science, art and technology, guiding the student towards identifying self as an individual and nurse in the associate or practical nurse role within the environment. Concepts of client-centered care, critical thinking, communication, accountability, and competence are expanded upon. The course reinforces student understanding and adoption of the nursing roles as provider of care, manager of care, and member of profession. The learning focuses on the care of individuals along the health continuum and across the lifespan with common women's health conditions such as adolescence, childbearing experience, menopause and simple gynecological conditions. Learning is applied during 5 weeks of clinical experience in community and acute care settings

Prerequisites: E, M, R, READ 110, BIOL 205, BIOL 206, CIS 102, CHEM 105, ENGL 101, PSYC 201, PSYC 203 (may take currently), NURS 130, NURS 180, and acceptance into the nursing program or permission of instructor/coordinator.

186 MEDICAL-SURGICAL NURSING I, SPRING FEE, 3(1.5-4.8)

Nursing 186 builds on Nursing 180, continuing and expanding concepts learned. The course reinforces student understanding and adoption of nursing roles as provider of care, manager of care, and member of a profession. Learning focuses on the care of the individual along the health continuum and across the life span with selected common medical-surgical conditions. These conditions include the perioperative experience, fluid and electrolyte imbalance, and gastrointestinal impairment. Learning is applied during four and one half weeks of clinical experience in an acute-care facility.

Prerequisites: E, M, R, READ 110, BIOL 205, BIOL 206, CIS 102, CHEM 105, ENGL 101, PSYC 201, NURS 130, NURS 180, and acceptance into the nursing program or permission of instructor/coordinator.

187 MEDICAL-SURGICAL NURSING II, SPRING FEE, 3(1.5-4.8)

Nursing 187 builds on NURS 180, continuing and expanding concepts learned. The course reinforces student understanding and adoption of nursing roles as provider of care, manager of care, and member of a profession. Learning focuses on the care of individuals along the health continuum and across the lifespan with selected common medical-surgical conditions. These conditions include diabetes, acute and chronic respiratory impairment, and acute and chronic cardiac impairment. Clinical experience is scheduled for four and one half weeks in medical-surgical settings within the community.

Prerequisites: E, M, R, READ 110, BIOL 205, BIOL 206, CIS 102, CHEM 105, ENGL 101, PSYC 201, NURS 130, NURS 180, and acceptance into the nursing program or permission of instructor/coordinator.

190 CHILD NURSING, SPRING 3(2-3)

The focus in this practical nursing level course is on the care of the child both in health and illness. In this class, students will use critical thinking, the nursing process, and concepts of caring in the classroom and clinical settings. Working under supervision, students will gain experience on the pediatric in-patient unit and in community agencies for seven weeks as they apply the theory gained from nursing and other related courses.

Prerequisites: E, M, R, READ 110, CIS 102, BIOL 205, 206, ENGL 101, PSYC 201, PSYC 203, NURS 180, NURS 130, NURS 185, NURS 186, NURS 187, NURS 135, and acceptance into the nursing program or permission of the instructor/coordinator

191 ADULT NURSING, SPRING 4(2 - 6)

Nursing 191 builds on all previous first year courses continuing and expanding concepts learned. This course focuses on the adult client by exploring additional common conditions including cardiac, neurological, respiratory, peripheral, vascular, renal, and musculoskeletal needs of the patient, as well as blood disorders and diet therapy. Concepts of management of care at the licensed practical nurse level, critical thinking, effective communication, and competent care are developed. Clinical experience is scheduled for seven weeks in acute/long-term care settings in the community.

Prerequisites: E, M, R; READ 110; CIS 102; CHEM 105; ENGL 101; PSYC 201, PSYC 203; BIOL 205, BIOL 206, NURS 180, NURS 185, NURS 186, NURS 187, NURS 130, NURS 135, and acceptance into the nursing program or permission of the instructor/coordinator

192 ADVANCED MEDICAL-SURGICAL NURSING, SUMMER 5(2-9)

This course continues the focus on the adult client by exploring common conditions including mental health, skin, endocrine, metabolic, immunologic, reproductive (male) disorders, emergency care needs, and/or geriatric involvement. Concepts of management of care at the licensed practical nurse level, critical thinking, effective communication, and competent care are developed. Clinical experience is scheduled for six weeks in acute/long-term care settings in the community.

Prerequisites: E, M, R, READ 110, BIOL 205, BIOL 206, CIS 102, CHEM 105, ENGL 101, PSYC 201, PSYC 203, NURS 130, NURS 135, NURS 180, NURS 185, NURS 186, NURS 187, NURS 190, NURS 191, and acceptance into the nursing program or permission of instructor/coordinator

280 COMMUNITY MENTAL HEALTH, FALL FEE, 4(2.3 - 5.3)

Utilizing a systematic and multidisciplinary approach, students in the course will assist mentally ill individuals and others with disrupted homeostasis in meeting emotional health care needs in the hospital and in community agencies over a five-week period. Critical thinking, the nursing process, and concepts of caring will be used to provide client-centered care. Using effective communication, students will manage care for culturally diverse individuals, families, and significant others. Students, as future members of the nursing profession, will accept accountability for the ethical, legal, and professional dimensions of nursing practice.

Prerequisites: E, M, R; READ 110, BIOL 105, CIS 102, CHEM 105, ENGL 101, PSYC 201, PSYC 203, BIOL 206, ENGL 102, HOSP 113, PHED 200, SOC 101, NURS 130, NURS 180, NURS 135, NURS 185, NURS 186, NURS 187, and acceptance into the nursing program or permission of the instructor/coordinator.

281 MEDICAL-SURGICAL NURSING III, FALL FEE, 3(1.5-4.8)

NURS 281 reinforces understanding and adoption of nursing roles as provider of care, manager of care, and member of the profession. Students begin to relate concepts of client-centered care, communication, critical-thinking, accountability and competency learned from previous nursing courses to the care of individuals along the health continuum and across the lifespan with common conditions. These conditions include rheumatic disorders, musculoskeletal disorders, musculoskeletal trauma and neoplastic conditions. Clinical experience is provided for 4.5 weeks in the nursing laboratory, acute/long-term, community and specialty care settings.

Prerequisites: E, M, R, READ 110, CIS 102, CHEM 105, ENGL 101, ENGL 102, HOSP 113, BIOL 205, BIOL 206, PSYC 201, PSYC 203, NURS 130, NURS 135, NURS 180, NURS 185, NURS 186, NURS 187, and acceptance into the nursing program or permission of the instructor/coordinator.

282 MEDICAL-SURGICAL NURSING IV, FALL FEE, 3(1.5-4.8)

The focus of this course is on the adult client in a state of wellness through illness. Students in this course will assist adult clients in meeting health care needs in genitourinary, blood dyscrasias, biliary, immunological, neurological, and renal conditions. Students in this course will apply newly acquired theory and skills as a provider of care, manager of care and as a member of a profession for the adult client. In providing client centered care, students will use critical thinking, effective communication skills, and be accountable for providing competent nursing care. Clinical experience is provided for four and one-half weeks in the laboratory, acute care units and community settings.

Prerequisites: E, M, R, READ 110, BIOL 205, BIOL 206, CIS 102, CHEM 105, ENGL 101, ENGL 102, PSYC 201, PSYC 203, HOSP 113, PHED 200, NURS 130, NURS 135, NURS 180, NURS 185, NURS 186, NURS 187, and acceptance into the nursing program or permission of the instructor/coordinator.

285 CHILDREN'S HEALTH, SPRING FEE, 4(2.3 - 5.3)

The major emphasis in this course will be upon the child and family in health and illness. Safe, competent, and client-centered care will be provided in hospital and community settings over a five-week period using the nursing process, critical thinking, and concepts of caring. Students will manage care for culturally diverse individuals and groups. In addition, as future members of the nursing profession, students will accept responsibility for ethical, legal, and professional dimensions of nursing practice.

Prerequisites: E, M, R, READ 110, BIOL 205, CIS 102, CHEM 105, ENGL 101, PSYC 201, PSYC 203, BIOL 206, ENGL 102, HOSP 113, PHED 200, SOC 101, NURS 130, NURS 180, NURS 135, NURS 185, NURS 186, NURS 187, NURS 280, NURS 281, NURS 282, and acceptance into the nursing program or permission of the instructor/coordinator.

286 MEDICAL-SURGICAL NURSING V, SPRING FEE, 3(1.5-4.8)

NURS 286 expands upon student understanding and adoption of nursing roles as provider of care, manager of care, and member of the profession. Students continue to relate concepts of client-centered care, communication, critical thinking, accountability and competency learned from previous nursing courses to the care of individuals along the health care continuum and across the lifespan with selected common recurring conditions. These conditions include acute cardiovascular impairment and endocrine disorders. Also included in this course are nursing leadership and nursing management concepts. Clinical experience is provided for 4.5 weeks in acute/long-term care, community, and specialty care settings.

Prerequisites: E, M, R, READ 110, CIS 102, CHEM 105, ENGL 101, ENGL 102, HOSP 113, BIOL 205, BIOL 206, PSYC 201, PSYC 203, NURS 130, NURS 135, NURS 180, NURS 185, NURS 186, NURS 187, NURS 280, NURS 281, NURS 282, and acceptance into the nursing program or permission of the instructor/coordinator.

287 MEDICAL-SURGICAL NURSING VI, SPRING FEE, 3(1.5-4.8)

NURS 286 expands upon student understanding and adoption of nursing roles as provider of care, manager of care, and member of the profession. Students continue to relate concepts of client-centered care, communication, critical thinking, accountability and competency learned from previous nursing courses to the care of individuals along the health care continuum and across the lifespan with selected common recurring conditions. These conditions include acute cardiovascular impairment and endocrine disorders. Also included in this course are nursing leadership and nursing management concepts. Clinical experience is provided for 4.5 weeks in acute/long-term care, community, and specialty care settings.

Prerequisites: E, M, R, READ 110, CIS 102, CHEM 105, ENGL 101, ENGL 102, HOSP 113, BIOL 205, BIOL 206, PSYC 201, PSYC 203, PHED 200, SOC 101, NURS 130, NURS 135, NURS 180, NURS 185, NURS 186, NURS 187, NURS 280, NURS 281, NURS 282, and acceptance into the nursing program or permission of the instructor/coordinator.

288 CURRENT ISSUES IN NURSING, SPRING, SUMMER (1-0)

Current Issues in Nursing is a capstone class intended to expand on the socialization of the student into the role of Member of a Profession. Contemporary trends and issues in nursing are discussed with a brief historical perspective. Levels of educational preparation for nursing with scope of practice for the levels, along with the need for lifelong learning, are presented along with ethical and legal issues. Licensure issues, professional organization, and employability skills complete the preparation for the professional role.

Prerequisites: E, M, R, READ 110, CIS 102, CHEM 105, BIOL 205, BIOL 206, ENGL 101, ENGL 102, PSYC 201, PSYC 203, NURS 130, NURS 135, NURS 180, NURS 185, NURS 186, NURS 187, NURS 130, NURS 135; Also either NURS 190 and NURS 191 or NURS 280, NURS 281, NURS 282, and acceptance into the nursing program or permission of instructor/coordinator.

OFFICE INFORMATION SYSTEMS (OIS)**101 KEYBOARDING I, FALL, SPRING, SUMMER 2(0-2)**

Beginning keyboard course for students with no prior training in use of a keyboard. Class is self-paced and self-instructional. Students learn alphabetic, numeric, and symbol keys including ten-key pad.

Prerequisite: R

102 KEYBOARDING II, FALL, SPRING, SUMMER 2(0-2)

Introductory course on a computer using a software package. Students develop correct keyboarding techniques and skill in practical production problems such as centering, letters, manuscript, simple tabulations and forms. This class is self-paced and self-instructional. Open to students with limited training in keyboarding or speeds less than 25 net words per minute.

Prerequisite: R

103 KEYBOARDING III, FALL, SPRING, SUMMER 2(0-2)

Concentrates on using a computer software package to review the keyboard, improve techniques, and build speed and accuracy. This class is self-paced and self-instructional. The course is designed for students who plan to use keyboarding either vocationally or personally. The course is review of OIS 102.

Prerequisites: R, OIS 102 or equivalent and keyboarding speed of at least 25 net words per minute

114 INTERMEDIATE KEYBOARDING, FALL, SPRING 3(3-0)

Development of greater speed and accuracy on computer keyboard using a software package. Emphasis is on production work required in offices.

Prerequisites: M, R, OIS 102 or equivalent and keyboarding speed of at least 40 net words per minute

125 RECORDS MANAGEMENT, FALL, SPRING 3(3-0)

Concentrates on effective and efficient management of business records. This course covers both manual and computer records management systems. Topics include basic filing methods, storage systems and supplies, information retrieval, records retention and disposition, indexing, records protection and procedures, and the operation and control of filing systems. Database applications are also covered.

Prerequisite: M, R

201 ADVANCED KEYBOARDING, FALL, SPRING 3(3-0)

Further development in speed and accuracy on computer using a software package. Attention given to advanced keyboarding problems such as statistical keyboarding, tabulations, charts, graphics, and presentations. Special attention is given to attaining high standards of production.

Prerequisites: E, M, R, OIS 114 or equivalent and keyboarding speed of at least 50 net words per minute

204 LEGAL TRANSCRIPTION, SPRING (ODD YEARS) 3(3-0)

Learn legal terminology and build transcription skills with materials encountered in legal offices.

Prerequisites: E, R, OIS 114 or equivalent, OIS 217

208 MEDICAL TRANSCRIPTION, SPRING (EVEN YEARS) 3(3-0)

Learn medical terminology and build transcription skills with materials encountered in medical offices.

Prerequisites: E, R, OIS 114 or equivalent, OIS 217, READ 110

211 OFFICE PROCEDURES, FALL, SPRING 3(3-0)

Concentrates on secretarial and clerical technologies studied and practiced in a typical office environment. Topics include: discussion and hands on use of the latest office technologies, personal presentation, practice in mailing procedures, proper use of communication mediums, employment strategies, office etiquette and development of appearance and personality.

Prerequisites: R

213 WORD PROCESSING TRANSCRIPTION, SPRING 3(3-0)

Instruction and practice in transcribing from machines to microcomputers using wordprocessing software. Students develop skills in punctuation, grammar, spelling, proofreading, and typing mailable copy directly from machine dictation.

Prerequisites: E, R, OIS 114, OIS 217

217 INTRODUCTION TO WORD PROCESSING APPLICATIONS, FALL, SPRING 3(3-0)

Concepts, systems, and practices used in information processing. Students with no previous experience learn by lecture, discussion and hands-on activities with various software commands, functions and skills. Students will gain an understanding of a total information processing operation.

Prerequisites: E, R, OIS 102 or equivalent

218 ADVANCED WORD PROCESSING APPLICATIONS, FALL, SPRING 3(3-0)

Follows OIS 217, Introduction to Word Processing Applications, and expands student understanding of concepts, systems, and practices used in information processing. Students learn by lecture, discussion and hands-on activities. Includes more advanced word processing applications.

Prerequisites: E, R, OIS 114 or equivalent, OIS 217

219 LEGAL OFFICE PROCEDURES, SPRING (ODD YEARS) 3(3-0)

Concentrates on duties of legal secretaries. Special attention given to legal vocabulary, typing, documents, filing and accounting.

Prerequisites: E, R, OIS 114 or equivalent, OIS 217

220 MEDICAL OFFICE PROCEDURES, SPRING (EVEN YEARS) 3(3-0)

Concentrates on duties of medical secretaries. Special attention given to medical vocabulary, typing, documents, filing and accounting.

Prerequisites: E, R, OIS 114 or equivalent, OIS 217

261 OFFICE CO-OP I, FALL, SPRING FEE, 3(1-15)

Allows students to work in approved office training station and earn credits for satisfactory secretarial experience. Minimum of 15 hours work per week required. Each student meets one hour per week with coordinator in related class. To participate in class, application must be placed with coordinator.

Prerequisites: E, M, R, advanced standing in Office Information Systems program, 2.00 GPA or higher in all previous college work and approval of coordinator.

262 OFFICE CO-OP II, SPRING FEE 3(1-15)

Elective for students who successfully completed OIS 261. Minimum of 15 hours work per week required. Each student meets one hour per week with coordinator in related class. To participate in class, application must be placed with coordinator.

Prerequisites: E, M, R, OIS 261 or equivalent, approval of coordinator.

PARAMEDIC (PARA)**101 ADVANCED EMT I, FALL FEE, 8(8-0)**

This course is designed to prepare the student for licensure as an Advanced EMT (Paramedic) in the State of Michigan. This course will include pathophysiology, patient assessment techniques and concepts, advanced airway management, fluid and shock resuscitation, and acid/base balance. This course is also designed to provide the Paramedic student with the knowledge of basic pharmacological principles, biological factors the influence predictable effects of drugs on physiologic problems, modifiers of predictable effects, commonalities and variations between the actions of drugs that can and do commonly occur, and application for pharmacological therapy in the pre-hospital setting. Class will incorporate medical terminology as well.

Prerequisites: E, M, R, BIOL108, EMT162, HEAL166, Acceptance into program

102 ADVANCED EMT LAB I, FALL FEE, 2(0-4)

Provides the paramedic student with skill requirements set forth by the MDCH. This course will include skill practice and scenarios with special emphasis on advanced airway, IV therapy and shock resuscitation, medication administration, pharmacology, and patient assessment.

Prerequisites: E, M, R, BIOL108, EMT162, HEAL166, Acceptance into program

103 ADVANCED EMT CLINICAL I, FALL FEE, 1(0-4)

This course is designed to meet the clinical requirements set by the U. S. DOT & MDCH. This area of clinical will involve rotations with various departments within the hospital setting as well as rotations in the pre-hospital setting. Areas of concentration will be on advanced airway management, IV therapy, patient assessment and administration of medications. Site locations: OR, Phebotomy lab, ER or Pre-OP.

Prerequisites: E,M,R, BIOL108, EMT162, HEAL166, Acceptance into program.

104 ADVANCED EMT HUMAN BODY, FALL, SPRING FEE, 4(3-2)

This course is designed to provide the Paramedic student with the necessary knowledge of the human body. The student will focus on the structure and function of the body under normal conditions starting at the basic cellular foundation to complex body systems. The paramedic student will also explore the function of the body under abnormal situations and how the body works to maintain and compensate under times of distress. This course is a hybrid course between classroom and online study.

Prerequisites: E,M,R and Program approval.

201 ADVANCED EMT II, SPRING FEE, 8(8-0)

This course involves medical procedures and use of equipment set forth by the U. S. DOT, MDCH and the AHA. Topics to be covered include rapid interpretation of ECG's, static recognition of ECG's, electrical therapy, pharmacological therapy, basic algorithms for treatment of cardiac arrhythmias and ACLS. Also pathophysiology of heart disorders, 12 lead EKG interpretation, pediatric ACLS, pediatric pharmacological therapy. It will also include the MDCH requirements for trauma patient management.

Prerequisites: E,M,R, PARA 101, 102 and 103.

202 ADVANCED EMT LAB II, SPRING FEE, 3(0-4)

Provides the Paramedic student with skills requirements set forth by the MDCH. This course will include skill practice and scenarios with special emphasis on trauma management in spinal precautions, injuries to the; head, thoracic cavity, abdominal cavity, extremities, and shock treatment as well. This skills lab will also have emphasis on cardiac care. Areas to be covered would be; cardiac rhythm interpretation, treatment of the cardiac patient given various situations, acute myocardial infarction, angina, arrhythmias, Acute Coronary Syndrome, ACLS algorithms, 12 lead interpretation, and pharmacological intervention.

Prerequisites: E,M,R, PARA 101, 102, 103

203 ADVANCED EMT CLINICAL II, SPRING FEE, 2(0-8)

This course is designed to meet the clinical requirements set by the U.S. DOT & MDCH. This area of clinical will involve rotations with various departments within the hospital setting as well as rotations in the pre-hospital setting. Areas of concentration will be on advanced airway management, IV therapy, patient assessment and administration of cardiac medications, cardiac cath lab, and complete trauma care. (128 hours of clinical time will be done)

Prerequisites: E,M,R, PARA 101, 102, 103

204 ACLS, SPRING FEE, 1(1-1)

This program is a 2 day provider course providing certification in ACLS this course is presented in a format to follow the AHA guidelines for ACLS.

Prerequisites: E,M,R, PARA 101, 102, 103

221 ADVANCED EMT III, SPRING, SUMMER FEE, 8(8-0)

Prepares the Paramedic student for pre-hospital care in the Advance role for medical emergencies set forth by the U.S. DOT and MDCH, topics to be covered include medical emergencies in the areas of respiratory, gynecology, behavioral, gastro-intestinal, environmental, allergic reactions, endocrine, altered mental status. This course will provide the Paramedic student with the knowledge in caring for and transporting 'special considerations' patients. This would include pediatrics, neonatology, and geriatrics. This course will also cover the Paramedic Operations area of the curriculum of the DOT and MDCH requirements. Topic areas would include hazardous materials, rescue operations, WMD, and multi-casualty incidents. In addition to these areas of study, the Paramedic student will take a comprehensive exam in preparation for the National Registry of EMT's Exam that can lead to licensure of the Paramedic.

Prerequisites: E,M,R, PARA 201, 202, 203

222 ADVANCED EMT LAB III, SPRING, SUMMER FEE, 2(0-4)

This skills lab will provide the paramedic student with the opportunity to practice and refine the skills necessary to function as a paramedic. The skills covered are set forth by the U.S. DOT & MDCH. Skill practice will be under direct supervision and be primarily scenario based for preparation of the NREMT practice exam.

Prerequisites: E,M,R, PARA201, 202, 203

223 ADVANCED EMT CLINICAL III, SPRING, SUMMER FEE, 3(0-3)

Clinical experience 3 is designed to emphasis on the paramedic student functioning as a paramedic under the direct supervision of licensed paramedic. The student will also participate in hospital rotations in the areas of ER, ICU, pediatrics, and labor/delivery. The field experience time will consist of 72 hours of direct supervision with an approved licensed paramedic crew. Total clinical time for PARA303 is 180 hours.

Prerequisites: E,M,R, PARA201, 202, 203

224 PEPP PROVIDER COURSE, SPRING,SUMMER FEE, 1(1-1)

This course is a 2 day, 16 hour provider course in Pre-hospital Emergency Pediatric Provider certification. Emphasis will be in Pediatric assessment, airway, cardiovascular care and treatment.

Prerequisites: E,M,R, PARA 201, 202, 203

225 ITLS PROVIDER COURSE, SPRING, SUMMER FEE, 1(1-1)

This program is a 2 day provider course providing certification in ITLS. This course is 16 hours emphasizing in trauma care and rapid assessment.

Prerequisites: E,M,R, PARA201, 202, 203

230 INTERNSHIP, SPRING, SUMMER FEE, 5(0-5)

This portion of the program will allow approved Paramedic students to complete their training in the field. The paramedic student will be assigned to a paramedic preceptor and work with that preceptor for 250-300hrs. Upon successful completion of this internship, the paramedic student may be eligible for NREMT examination process.

Prerequisites: E,M,R, PARA201, 202, 203

PHILOSOPHY (PHIL)

101 INTRODUCTION TO PHILOSOPHY, FALL, SPRING 3(3-0)

Nature of Philosophy by consideration of major types of philosophical questions, such as principles of rational belief, existence of God, pursuit of good life, nature of knowledge, problem of truth and verification and relationship of people to state. Establishes frames of reference so students can begin asking philosophical questions.

Prerequisites: E, R

102 INTRODUCTION TO LOGIC, FALL, SPRING 3(3-0)

Ways people reason and come to conclusions. Helps students to understand and evaluate other people's arguments. Focus on ways to test reliability of own reasoning and construct sound arguments.

Prerequisites: E, R

215 INTRODUCTION TO RELIGIOUS THOUGHT, FALL 3(3-0)

History, scope, subject matter and goals of world religions. Basic concepts common to most major religions. Recommended for sophomores.

Prerequisites: E, R

250 SOPHOMORE SEMINAR IN PHILOSOPHY, SPRING 3(3-0)

Special themes within philosophy of interest to non-Philosophy majors. Themes include Problems in Philosophy of Science, Issues in Business Ethics, Introduction to Medical Ethics, Man and Machines—A Philosophy of Technology, or Philosophy of Law. Semester class schedule indicates theme to be covered.

Prerequisites: E, R, sophomore standing or permission of instructor

PHYSICAL EDUCATION & WELLNESS (PHED)

NOTE: Only one of the following courses will count towards LMC graduation; PHED 200, 212 or 214.

The general physical education and wellness program series is designed to offer instruction and opportunities to participate in fitness related activity, recreational and lifetime activities, and wellness promotion opportunities.

102 INTERMEDIATE VOLLEYBALL, ON DEMAND 1(0-2)

For students with experience playing power volleyball. Advanced offenses and defenses. Competitive tournaments run throughout class.

105 BOWLING, SPRING AND ON DEMAND FEE, 1(1-1)

Emphasis will be placed on fundamental skills including footwork, approach, delivery, timing, release, and scoring.

106 INTERMEDIATE BOWLING, SPRING AND ON DEMAND FEE, 1(1-1)

Designed for the bowler who possesses basic techniques. Emphasis will include spare angles, ball drilling, lane maintenance, ball adjustment for strikes, and correction of form.

Prerequisite: PHED 105 or equivalent

107 GOLF, FALL, SPRING FEE, 1(1-1)

Emphasis will be placed on proper use of irons, woods, and putting with proper stance, approach, grip, full swing, and body positioning. Opportunity for actual play on golf course will be made available.

118 PHYSICAL CONDITIONING 1(0-2)

Knowledge and appreciation of continued state of physical fitness.

Personal fitness program developed and implemented. Actual implementation of individual's personal fitness program.

124 WEIGHTLIFTING, FALL, SPRING 1(0-2)

Taught in classroom and gym. Classroom portion emphasizes human musculature as related to weight resistive programs. Lifting portion involves both weight training and cardiovascular with emphasis being total fitness.

125 INTERMEDIATE WEIGHTLIFTING, 1(0-2)

Continuation of basic course. Individual programs designed based upon student goals. Opportunity to develop strength or body-building programs utilizing universal equipment and/or free weights.

Prerequisite: PHED 124

127 INTRODUCTION TO BASKETBALL 1(0-2)

Introduction to the sport of basketball. Includes all skills necessary to play game as well as some defensive and offensive strategies.

130 BACKPACKING, 1(0-2)

Fundamental knowledge in areas of wilderness ethics, equipment selection and usage, food selection and preparation, physical conditioning, limited first aid, clothing requirements, camp site selection and maintenance, proper fire consideration and trip organization. Students required to take part in weekend backpacking trip.

131 BASIC SCUBA, ON DEMAND FEE, 1(0-2)

Introduction to diving equipment, fundamentals of physics and physiology related to diving. Practical applications emphasized for all necessary basic diving techniques. Upon satisfactory completion of course, NAUI Basic Scuba Certification awarded. Students must have healthy lungs and not be suffering from asthma or any airway-restricting condition. Minimum 12 years of age required.

133 BEGINNING VOLLEYBALL, (ON DEMAND) 1(0-2)

Current rules, history, skill techniques of spike, service, forearm pass, setup, blocking and strategy. Tournaments conducted throughout class.

134 FUNDAMENTALS OF BASEBALL, FALL 1(0-2)

This class provides basic instruction in the fundamental skills of baseball including hitting, fielding, catching, and throwing. Game-like situations will also be practiced. The student will gain knowledge of the rules of baseball.

Prerequisites: None

145 TOTAL FITNESS I, 1(0-2)

This is an individualized course which offers an introduction to and participation in multi-station aerobic super-circuit utilizing sub maximal weights with multiple repetitions. The class utilizes an open lab concept where students satisfy requirements of the class by attending open hours. The average workout time for all stations including warm-up and cool down is 50 minutes. The course is taken for college-credit with a letter grade assigned.

Prerequisites: None

146 TOTAL FITNESS II, FALL, SPRING, SUMMER 1(0-2)

This class is designed for students who have successfully completed PHED146 Total Fitness I or PHED212 Health and Fitness and desire to continue to utilize the Wellness Center while earning college credit. This is an individualized course which offers a continuation of exercise with a multi-stations aerobic super-circuit or a specialized individual program.

Prerequisites: PHED145 or PHED212

200 HEALTHFUL LIVING, FALL, SPRING, SUMMER 1(1-1)

The purpose of this course is to acquaint the student with concepts of wellness and the relationship between physical activity and optimal health and fitness. Topics include CV disease, exercise, nutrition, weight management, behavior modification, stress, cancer, addiction and sexually transmitted infections.

Prerequisites: none

Note: Credits from only one of the following courses will count toward LMC graduation; PHED 200, 212 or 214.

212 HEALTH AND FITNESS, FALL, SPRING, SUMMER 3(2-2)

This course combines classroom experience and personal exercise. Students establish knowledge of wellness, physical fitness, CV disease, nutrition, weight management, behavior modification, stress, cancer, addiction and sexually transmitted infections. Students implement an individualized exercise program and are required to exercise two days per week in the specified fitness center.

Prerequisites: none

Note: Credits from only one of the following courses will count toward LMC graduation; PHED 200, 212 or 214.

214 PERSONAL HEALTH, FALL, SPRING 3(3-0)

This course provides an understanding of the responsibility we have for our own health. Topics include CV disease, exercise, nutrition, weight management, behavior modification, stress, cancer, substance abuse, mental and emotional health, sexuality, contraception, infectious and non-infectious disease, personal safety, death and dying.

Prerequisites: none

Note: Credits from only one of the following courses will count toward LMC graduation; PHED 200, 212 or 214.

216 HEALTH ISSUES: STRESS MANAGEMENT, FALL, SPRING 2(2-0)

Physiological responses to stress and developing techniques for better stress management.

217 HEALTH ISSUES: SELF-ESTEEM, FALL, SPRING 1(1-0)

Assists in growth in ability to love and care for oneself and others. Techniques practiced daily to enhance self-esteem and variety of self-esteem issues presented.

218 HEALTH ISSUES: WEIGHT MANAGEMENT, 1(0-2)

This course consists of one session per week in the classroom setting to acquire an understanding of the physiology of fat gain and loss, the side effects of short term solutions, and proper weight management techniques. Another session each week will include a support group atmosphere.

Prerequisite: Students must enroll in Total Fitness Center 145 OR 146 CONCURRENTLY with this class or acquire instructor's permission. Wellness Center for credit or as Community Member.

220 HEALTHFUL LIVING II, FALL, SPRING 2(2-0)

The purpose of this course is to acquaint the student with additional concepts related to healthy living that are not included in the PHED 200 Healthful Living course. Areas of study include mental and emotional health, safety, violence and abuse, sexuality, reproductive health, infectious and noninfectious disease, aging, death and dying, environmental health and alternative medicine.

Prerequisite: PHED 200 or concurrent enrollment and basic computer skills.

PHYSICAL EDUCATION PROFESSIONAL COURSES (PHED)

The professional program is designed to offer instruction in physical education skills, program, philosophy and administration as a vocation. The following courses are open to those students planning to receive a major or a minor in Physical Education in their bachelor's degree program.

201 FOUNDATIONS OF PHYSICAL EDUCATION, 3(2-1)

Orientation to physical education and recreation profession. Emphasis on basic philosophy, principles and interpretation of well-balanced programs. Skills readiness of professional students determined by testing program.

205 VOLLEYBALL OFFICIATING, FALL 1(1-1)

For male and female students; considers rules, game situations and officiating techniques. Students gain practical knowledge by officiating in organized athletic events.

209 INTRODUCTION TO COACHING SPORTS, FALL 3(3-0)

Basic principles and theory of coaching includes State Athletic Handbook, budgets, scheduling, equipment, administration and organization, conditioning, motivation, public relations, team selection, liability, and athletic training.

210 ATHLETIC TRAINING, SPRING 2(1-2)

Knowledgeable background and experience in prevention, immediate treatment and rehabilitation of injuries commonly sustained by participants in athletics.

Prerequisite: E

PHYSICAL SCIENCE (PHSC)

101 PHYSICAL SCIENCE: CHEMISTRY AND PHYSICS, FALL, SPRING 4(3-2)

Provides students the opportunity to explore the connections of chemistry and physics as it relates to a variety of occupations. Integrated areas covered include the fundamental principles of light, sound, motion, energy, electricity, magnetism, states of matter, semiconductors, digital imaging, instrumentation components and block diagrams, and scientific conversion/units. This course will require some online work and out-of-class testing.

Prerequisite: E, R, and Math 095 (C. or better), or a College assessment score qualifying for MATH 122 or higher.

104 PHYSICAL GEOLOGY, FALL, SPRING 4(3-2)

Study of geologic processes. Topics include rock and mineral identification, topographic maps, plate tectonics and rock cycle, earthquakes and earth's interior, role of wind and water, glaciation, deserts, mass wasting, shorelines, resources, geologic time and astrogeology. Includes a two hour laboratory experience per week.
Prerequisites: E, M, R

180 PHYSICAL SCIENCE IN ELEMENTARY EDUCATION, FALL, SPRING 3 (2-2)

This is a laboratory-Based course specifically designed for perspective elementary teachers. This course will aid students in developing meaningful and functional understanding of key physics concepts and their interrelations.

Prerequisites: E,M,R

190 EARTH SCIENCE FOR ELEMENTARY/MIDDLE SCHOOL TEACHERS I, FALL 3(2-3)

The first of a two-course laboratory-based earth science sequence designed for preservice elementary/middle school teachers. The intent of this course is to acquaint future teachers with the important concepts of earth science, and to provide the basic tools of independent, creative inquiry that teachers can take into the classroom. This course will explore the practice of science by emphasizing inquiry-based activities. This course is specifically designed to address the Elementary and Middle School Content Standards of the Michigan Science Strand V: Use Scientific Knowledge from the Earth and Space Sciences in Real-World Contexts.

Prerequisite: E, M, R, and computer literacy. This course is the prerequisite for PHSC 290.

280 PHYSICAL SCIENCE FOR ELEMENTARY TEACHERS II, SPRING, 3(2-3)

This is a laboratory-based course specifically designed for prospective elementary teachers. This course will aid students in developing meaningful and functional understanding of key physics concepts and their interrelations. This course is specifically designed to transfer to Western Michigan University's Elementary Education program and may not transfer to other institutions.

Prerequisites: E, M, R, and computer literacy.

290 EARTH SCIENCE FOR ELEMENTARY/MIDDLE SCHOOL TEACHERS II, SPRING 3(2-3)

The second of a two-course laboratory-based earth science sequence designed for preservice elementary and middle school teachers. The intent of this course is to acquaint future teachers with the important concepts of earth science, and to provide the basic tools of independent, creative inquiry that teachers can take into the classroom. Emphasis will be given to study of the geology of Earth. This course will explore the practice of science by incorporating inquiry-based activities into the pedagogy. This course is specifically designed to transfer to Western Michigan University's Elementary Education program and may not transfer to other institutions.

Prerequisite: E, M, R, and computer literacy.

PHYSICS (PHYS)**101 GENERAL PHYSICS I, FALL 5(4-2)**

Principles of Newtonian mechanics and kinetic theory. Recommended for Biology, Pre-Medical and Liberal Arts students. Includes a two hour laboratory experience per week.

Prerequisites: M, R, MATH 122 or MATH 128 concurrently or consent of instructor.

102 GENERAL PHYSICS II, SPRING 5(4-2)

Principles of electricity and magnetism, light and modern physics. Continuation of Physics 101. Includes a two hour laboratory experience per week.

Prerequisite: PHYS 101

104 INTRODUCTION TO THE SKY AND SOLAR SYSTEM, FALL, SPRING 4(3-2)

Introduction to the night sky and our solar system including cycles of the Sun, Moon, planets, and constellations; the historical development of astronomy; basic properties of light and telescopes; nature and properties of the planets and the Sun; asteroids, meteorites, and comets; and the origin and evolution of the solar system. Includes laboratory component designed to illustrate and explore the topics covered. Includes a two hour laboratory experience per week.

Prerequisites: E,M,R and MATH 100 (or equivalent)

110 TECHNICAL PHYSICS, SPRING 4(3-2)

Topics from general physics for students pursuing technical program; emphasis on matter, force, power, basic machines, torque, power transmission and topics from heat, sound and light. Includes a two hour laboratory experience per week.

Prerequisites: M, R, MATH 130

201 ENGINEERING PHYSICS I (MECHANICS), FALL 5(4-2)

Newtonian and Relativistic mechanics, kinetic theory and thermodynamics; designed for Engineering, Mathematics, Physics and Chemistry transfer students. Includes a two hour laboratory experience per week.

Corequisite: Mathematics 201

202 ENGINEERING PHYSICS II (ELECTRICITY AND MAGNETISM), SPRING 5(4-2)

Electricity, magnetism and light for Engineering, Mathematics, Physics and Chemistry transfer students. Includes a two hour laboratory experience per week.

Prerequisite: PHYS 201

POLITICAL SCIENCE (POSC)**101 NATIONAL GOVERNMENT, FALL, SPRING, SUMMER 3(3-0)**

Examine the structure and operation of the national government, the meaning and practice of democracy, the various power relationships, civil liberties and civil rights, as well as the American method of conducting elections. The role of citizens and their choices is also examined.

Prerequisite: E, R

102 STATE GOVERNMENT, FALL, SPRING (SUMMER, ON DEMAND) 3(3-0)

Examines political decision-making and public policies of state governments, with particular emphasis on Michigan. Analyzes both the relationships of states with the national government as well as each other, and contrasts policies and political structures in each state.

Prerequisites: E, R

202 COMPARATIVE GOVERNMENTS, SPRING (ODD YEARS) 3(3-0)

Examines the similarities and differences that exist between the local governments, the public policies, the constitutions as well as the executive, legislative, and judicial branches of key central (i.e., national) governments around the world. Particular emphasis is also placed on the literature that underscores the study of comparative governments.

Prerequisite: E, R

203 INTERNATIONAL RELATIONS, SPRING (EVEN YEARS) 3(3-0)

Examines the relations that exist among nation-states. Particular emphasis is placed upon the factors/variables contributing to national power, the instruments used by nation-states to promote their own interests and the methods used to control interstate relations such as international law, balance of power arrangements, pacific settlement of disputes and international organizations.

Prerequisites: E, R

204 POLITICAL PARTIES, FALL (EVEN YEARS) 3(3-0)

Examines the development, organization, function, and activities of major and minor political parties, pressure groups (e.g., interest groups), and election administration in the United States.

Prerequisite: E, R

250 INTRODUCTION TO SOCIAL SCIENCE RESEARCH, (ON DEMAND) 3(3-0)

Examine the research process, from development of hypotheses to report of findings. Research strategies include survey research, experimental designs, interviewing, observation and content analysis. For Social Science majors who plan to transfer.

Prerequisite: POSC 101 or 102, with B or better or instructor permission.

260 INTRODUCTION TO PUBLIC POLICY, FALL (ODD YEARS) 3 (3-0)

Examines current political topics within the public policy realm. The student is expected to grasp the issue and/or policy of concern and all of its complexities as well as appreciate its significance to modern everyday life. Topics will vary over time and will be drawn from either an American or international perspective.

Prerequisites: E; R; POSC 101 or POSC 102 or permission of instructor.

PSYCHOLOGY (PSYC)

201 INTRODUCTION TO PSYCHOLOGY, FALL, SPRING, SUMMER 3(3-0)

Description, understanding and control of human behavior. Two-fold aims: increase student ability to understand self and others and make more satisfactory adjustment to life and introduction to field of Psychology.

Prerequisites: E, R

203 HUMAN DEVELOPMENT, FALL, SPRING 3(3-0)

Physical, cognitive, social and emotional development from conception through death. Emphasis upon factors influencing development of personality.

Prerequisites: E,R, PSYC201 with a C or better

204 CHILD DEVELOPMENT AND PERSONALITY, FALL 3(3-0)

Physical, social, intellectual and personality development from conception through adolescence. Emphasis upon factors influencing development of personality.

Prerequisites: E,R, PSYC201 with a C or better

205 INTERPERSONAL RELATIONS, FALL, SPRING 3 (3-0)

Interpersonal communication theory and practice to enhance effectiveness in interpersonal relations through better understanding of self and others. Topics include areas such as active listening behaviors, assertive confrontation and conflict resolution.

Prerequisite: PSYC 201

206 SOCIAL PSYCHOLOGY, SPRING 3(3-0)

Topics related to social influences on the individual, emphasizing social psychological research.

Prerequisite: E, R, PSYC 201 with a "B" or better.

230 PSYCHOLOGY OF STEREOTYPING & PREJUDICE, FALL 3(3-0)

Reviews theories and research on racial, ethnic and religious stereotyping and prejudice. Examines the developmental roots of these attitudes and beliefs and explores their emotional and behavioral consequences. Conscious and unconscious processes will be discussed. In-class participation will be strongly encouraged.

Prerequisites: E, R

231 ABNORMAL PSYCHOLOGY, FALL, SPRING 3 (3-0)

Descriptions of cognitive, affective and behavioral disorders. Origins of specific disorders considered along with nature and problem of diagnosis and classification, and contemporary modes of treatment.

Prerequisite: E,R, PSYC201 with a C or better

250 INTRODUCTION TO SOCIAL SCIENCE RESEARCH, SPRING 3(3-0)

Research process, from development of hypotheses to report of findings. Research strategies include survey research, experimental designs, interviewing, observation and content analysis. For Social Science majors who plan to transfer.

Prerequisites: B or better in PSYC 201 and permission of instructor

RADIOLOGIC TECHNOLOGY (RADT)

130 INTRODUCTION TO RADIOGRAPHY, FALL 3(3-0)

Introduction to radiography. Topics covered include historical perspective of radiology, medical ethics, patient care and radiation protection.

Prerequisites: E, M, R, acceptance into Radiologic Technology program

131 RADIOGRAPHIC POSITIONING I, FALL FEE, 3(2-2)

Radiographic nomenclature used in positioning, routine positioning of upper extremities, associated girdles, chest, abdomen and related pathology.

Prerequisites: E, M, R, acceptance into Radiologic Technology program

133 CLINICAL EXPERIENCE A, FALL FEE, 2(0-16)

Weekly 16-hour rotation through area hospitals during which student applies knowledge/skills learned in lecture and laboratory. Emphasis on patient care, communication and basic positioning skills.

Prerequisites: E, M, R, acceptance into Radiologic Technology program

140 RADIOGRAPHIC POSITIONING II, SUMMER FEE, 3(2-2)

Routine positioning of vertebral column, lower extremities, special views of body and related pathologies.

Prerequisites: E, M, R, RADT 130, RADT 131, RADT 133

141 CONTRAST STUDIES, SPRING FEE, 3(2-2)

Anatomy and positioning of gastrointestinal, biliary, genitourinary systems, glands and related pathology.

Prerequisites: E, M, R, RADT 130, RADT 131, RADT 133

142 RADIOGRAPHIC PHYSICS, SPRING 4(4-0)

Physics as related to the operation of x-ray equipment. Topics include atomic theory, x-ray properties, necessary units of measurement, electricity and electromagnetism, basic electrical circuit components, and electrical circuitry.

Prerequisites: E, M, R and RADT 130, 131, 133.

143 CLINICAL EXPERIENCE B, SPRING FEE, CREDIT 2(0-16)

Continuation of RADT 133. Students continue to refine positioning skills taught in the first semester, adding to their repertoire with positioning of lower extremity and spine.

Prerequisites: E, M, R, RADT 130, 131, 133

145 RADIATION PROTECTION AND BIOLOGY, SPRING 2(2-0)

Focuses on principles of interaction of radiation with living systems and radiation protection responsibilities of radiographer for patients, personnel, and public.

Prerequisites: E, M, R, RADT 130, RADT 142

146 CLINICAL EXPERIENCE C, SPRING, FEE, 1 (0-16)

Fifteen day rotation through area health care facilities. Students participate in clinical practicum with an emphasis on fluoroscopy and portable radiography.

Prerequisites: E, M, R, and RADT 140, 141, 142 and 143.

230 COMMON EQUIPMENT AND PROCEDURES, FALL 4(4-0)

Investigates common equipment and procedures employed in diagnostic radiology. Topics include x-ray circuits, grids, screens and cassettes, beam limiting devices, x-ray tubes, fluoroscopic, picture archiving communication systems, and digital imaging.

Prerequisites: E, M, R, and RADT 130, 142, 145 and 146.

231 RADIOGRAPHIC POSITIONING III, FALL FEE, 3(2-2)

Radiographic positioning of petrous portion of skull, facial bones, thorax and related pathology.

Prerequisites: E, M, R, RADT 232

232 CLINICAL EXPERIENCE D, SUMMER FEE, 5 (0-18.6)

Seven week rotation through area health care facilities. Students participate in a 40 hour week supervised clinical practicum with emphasis on gaining further first year experience in trauma radiography.

Prerequisites: E, M, R, and RADT 145 and RADT 146

240 RADIOGRAPHIC QUALITY, SPRING 4(2-2)

Lecture/lab course covering principles of radiographic image formation, quality assurance tests and technical variables that affect finished radiographs.

Prerequisites: E, M, R, RADT 230, RADT 231, RADT 232

241 SPECIAL PROCEDURES/EMERGING MODALITIES, SPRING 3(3-0)

Specialized radiologic procedures including tomography, myelography and angiography. Introduction to other imaging's modalities including CT, MRI and Sonography.

Prerequisites: E, M, R, RADT 240, RADT 231, RADT 232

242 CLINICAL EXPERIENCE E, FALL FEE, 3 (0-24)

Weekly 24 hour clinical rotation at area health care facilities with emphasis on skull and thoracic radiography.

Prerequisites: E, M, R, and RADT 232.

245 CLINICAL EXPERIENCE, FALL, SPRING FEE, 3(0-24)

Weekly 24 hour clinical rotation at area health facilities. Students expected to perform more complex radiographic examinations in preparation for graduation from the program. Students will also participate in supervised clinical practicums in specialty imaging modalities. Modalities include: CT, MRI, Ultrasound, Nuclear Medicine, Radiation Therapy, and Cardiovascular.

Prerequisites: E, M, R, and RADT 230, 231, and 232.

READING (READ)

*NOTE: *This is a transitional course, college credit not received. Courses that have identification numbers below 100 do not count toward total credit hours needed to earn a Certificate or Associate Degree.*

Reading is a basic life skill, the cornerstone for success in school, career and throughout life. The Reading curriculum assists students to become better readers. Instruction varies from individualized to large/small group in order to meet individual needs, abilities and interests. Audio-visual materials are incorporated into class presentations. Computer-assisted instruction is used.

Students must pass their Reading coursework and a Reading Assessment test to register for classes with a Reading prerequisite. Once beginning the sequence, students must complete all courses or demonstrate proficiency on the Reading Assessment test.

ONE-CREDIT COURSES:

These courses are for students who want or need a brief, concentrated review of a certain discipline or who need an additional hour or two for various reasons. Students who choose a one-credit course should register as usual then go to the Reading Center, to arrange class hours. One-credit courses are scheduled as follows:

- (1) one credit hour; attend 2 hours per week for 15 weeks
- (2) one credit hour; attend 3.5 hours per week for 8 weeks

Students may register for one-credit classes as follows:

- (1) at the start of the semester, or
- (2) during the semester until mid-term

***088 1100 WORDS (YOU NEED TO KNOW), FALL, SPRING 1 (0-2)**

Improves speaking and reading vocabulary. Vocabulary exercises employ techniques of using pronunciation symbols, using terms in context and completing sentences.

Prerequisite: READ 084

***090 POWER STUDY SKILLS, FALL, SPRING 1 (0-2)**

Audio-tutorial course to improve study and note-taking skills. Stresses reading and note-taking techniques appropriate to academic materials.

***093 SUPER-SPEED READING, FALL, SPRING 1 (0-2)**

Increases reading speed and comprehension. Utilizes individualized audio-visual techniques to fit needs, interests and abilities of student.
Prerequisite: READ 085

***096 VOCABULARY POWER, FALL, SPRING 1 (0-2)**

Audio-modular, programmed system that concentrates on different aspects of developing vocabulary.

***099 SPELLING MASTERY, FALL, SPRING 1 (0-2)**

For students with below-average spelling skills. Modular audio materials allow mastery to be accomplished individually.

110 MEDICAL TERMINOLOGY VOCABULARY, FALL, SPRING 1 (0-2)

Learn structure of medical vocabulary. Provides aids to pronunciation, spelling and meaning of continually expanding medical vocabulary. Utilizes audio-visual, programmed materials. Applies to General Studies and Associate Degrees.
Prerequisite: R

ADDITIONAL-CREDIT COURSES:

***081 READING IMPROVEMENT I, FALL, SPRING, SUMMER 4(3-1)**

Improves student academic preparedness. Emphasis on techniques and strategies to help improve reading skills, read more effectively and develop appreciation for reading. Computer-assisted instruction occurs in the Reading Center.
Prerequisite: Appropriate Reading assessment score

***083 READING STRATEGIES I, FALL, SPRING, SUMMER 4(3-1)**

Provides techniques and strategies to help develop college-level vocabulary and reading proficiency. Emphasis on learning and practicing a combination of reading skills and integrating them into a college text. Computer-assisted instruction occurs in the Reading Center.
Prerequisite: Appropriate Reading assessment score or C or better, or READ 081

***084 READING IMPROVEMENT II, FALL, SPRING, SUMMER 4(3-1)**

Enables learners to acquire competencies needed for success in college courses. Emphasis on strategies necessary to deal with vocabulary required by college curriculum, content comprehension of college texts and other required readings, and ability to apply critical reading principles to reading materials. Computer-assisted instruction occurs in the Reading Center.
Prerequisite: Appropriate Reading assessment score or C or better, or READ 083

***085 READING STRATEGIES II, FALL, SPRING, SUMMER 2(0-2)**

Interactive, computer delivered instructional course, teaching comprehension strategies through understanding, evaluating, and researching ideas, answering questions, and locating information. Goes beyond teaching of literal comprehension to include integration and synthesis of information.
Prerequisite: Appropriate Reading assessment score or C or better, or READ 084

101 STUDY SKILLS, FALL, SPRING, SUMMER 3(1-2)

Assists students in developing better study skills. Emphasis on practical study techniques, note taking, textbook marking, test taking skills and time management.
Prerequisite: R

SOCIOLOGY (SOC)

101 PRINCIPLES OF SOCIOLOGY, FALL, SPRING 3(3-0)

Principles of human association and interaction, with emphasis on interrelationship of heredity, environment, culture, groups and institutions in life of humans and society.
Prerequisites: E, R

201 MODERN SOCIAL PROBLEMS, FALL, SPRING 3(3-0)

Contemporary social problems and related rehabilitative and ameliorative resources and approaches in solving problems, with emphasis on problems of inter-group and inter-culture conflicts regarding differing beliefs and value systems.
Prerequisites: E, R

202 MARRIAGE AND THE FAMILY, SPRING 3(3-0)

Personal, social and cultural factors relating to pre-marriage and marriage; emphasis on interpersonal aspects of marriage, parenthood and family living in a changing world. Students with sophomore standing preferred.
Prerequisites: E, R

204 THE FIELD OF SOCIAL WORK, FALL, SPRING 3(3-0)

The study of social work as a professional field. The philosophy, function, employment opportunities, patterns of specialization, and methods of social work are surveyed.
Prerequisites: E, R

205 RACE AND ETHNIC RELATIONS, 3(3-0)

Studies of divisions among people along racial and ethnic heritages in today's American society. Includes various ethnic groups from five categories: 1) European ethnics; 2) Hispanic ethnics; 3) Asian ethnics; 4) historically American subjugated ethnics; and 5) socio-religious ethnic minorities.
Prerequisites: E, R

210 SOCIOLOGY OF AGING, FALL, SPRING, SUMMER 3(3-0)

The study of the socio-cultural, economic, and physical aspects of aging in the United States and other societies with an emphasis on the diversity of the aging process.
Prerequisites: E,R

250 INTRODUCTION TO SOCIAL SCIENCE RESEARCH, SPRING 3(3-0)

Research process from development of hypotheses to report of findings. Research strategies include survey research, experimental designs, interviewing, observation, and content analysis. For social science majors.
Prerequisite: SOC101, with B or better or instructor permission.

THEATRE (DRAM)

110 PRINCIPLES AND PRACTICES OF ACTING I, 3(2-2)

Principles of acting for the stage. Emphasis on performance through exercises and scene work. Movement and voice work covered. Brief study of general theatre language and terms.

Prerequisite: t R

111 PRINCIPLES AND PRACTICE OF ACTING II, 3(2-2)

Techniques and problems of stage actor. Emphasis on performing scenes. Stresses character development and ensemble acting. Students develop audition pieces.

Prerequisite: DRAM 110

112 STAGECRAFT, SPRING 3(2-2)

Basics of technical theatre production. Study of set design and construction, basic lighting and sound principles and scenery styles. Work required on department productions. Course may be repeated once for additional credit.

175 SUMMER THEATRE WORKSHOP, (ON DEMAND) 6(6-0)

Experience as part of professional production company. Array of tasks and duties as part of company. Highly recommended that students not enroll in other classes during this 7-week period.

201 INTRODUCTION TO THEATRE, FALL 3(3-0)

General theatre practice, dramatic types (comedy, tragedy, farce, etc.), areas of production responsibilities and theatre history. Study of various dramatic types and periods, and attendance at theatrical performances. Semester culminates with class production project.

Prerequisite: E, R

202 THEATRE PRACTICUM, FALL, SPRING 3(3-0)

Supervised experience in one or more areas of theatre. Nature of involvement determined by student theatre contract. Students may add class within one week after casting. Course may be repeated for credit.

220 INTRODUCTION TO THEATRE FOR YOUNG AUDIENCES & CREATIVE DRAMATICS, 3(3-0)

This course introduces students to the depth and possibilities of creative dramatics and the art of children's theatre. Students will learn about the history and significance of children's theatre/Theatre for Young Audiences and creative dramatics and conclude the course with a practical immersion in a facsimile classroom setting. This class is open to all majors.

Prerequisites: E,R

TRADE RELATED INSTRUCTION (TRIN)

105 APPLIED TRIGONOMETRY II, FALL, SPRING 2(2-0)

Oblique angle trigonometry which incorporates law of sines, cosines, cotangents and right triangles in solving practical shop problems.

Prerequisite: MATH 110 or TRIN 107

106 COMPOUND ANGLES, FALL, SPRING 3(3-0)

Study of practical application of five basic solid geometric figures. Emphasis on utilizing figures when calculating rotation and tilt of part before machining.

Prerequisite: TRIN 105

107 APPLIED GEOMETRY/TRIGONOMETRY, FALL, SPRING 4(4-0)

Second in series of applied mathematics courses that build upon concepts applicable to machine tool trades. Presents intermediate applications of geometry including propositions and axiom definitions, circles, areas, volume formulas and right angle trigonometry including right angles, interpolation and practical machining problem solving. Follows Duties and Standards for Level 1 Machining Skills as approved by National Institute for Metalworking Skills.

Prerequisites: MATH 100

113 INTERPRETIVE BLUEPRINT READING, SPRING 4(4-0)

Designed for Machinist, Mold Maker, and Trim Die Maker trainees/apprentices in their final year of training. Advanced blueprint interpretation for different types of molds, and understanding gating, heating and cooling along with advanced processes required to build a mold.

Prerequisites: M, R, MACH 110, MACH 120, MATH 100, MATH 107, MATH 111, TRIN 143, 147, DRAF 144, 145

129 ELECTRICAL CODE STUDY, (ON DEMAND) 2(2-0)

Interpretation and application of State and National Electrical Code.

Prerequisites: ELEC 100, ELEC 106, ELEC 111, ELEC 113

134 METALLURGY AND HEAT TREATMENT, FALL, SPRING 3(3-0)

Acquaints students with properties of metals and heat treating methods.

Prerequisite: MATH 110 or TRIN 107

135 STRENGTH OF MATERIALS, (ON DEMAND) 3(3-0)

Fundamental principles of material strength. Includes simple machines, vector quantities, simple stresses, rivets, material properties, beams, center of gravity and similar topics.

Prerequisite: TRIN 105

138 INDUSTRIAL SAFETY, SPRING 1(1-0)

Safety rules applied to industry. Covers OSHA standards and guidelines.

Prerequisite: none

143 INTRODUCTION TO MOLD MAKING, FALL, SPRING 3(3-0)

Course explains the "whys" underlying applied mold making and operation. Essential facts of cutting and forming operation are explained and related to the manner in which molds function. Primary mold components are discussed along with efficient working mold processes through films, videos and plan tours.

Prerequisites: M, R

144 BLUEPRINT READING & SKETCHING, FALL, SPRING 4(3-1)

Basics of interpreting working drawings, tolerancing, machining symbols, fasteners, sections, auxiliary views, developments, piping drawing, material specifications, casting drawings, assembly drawings, welding drawings and machine elements. Offers approximately one hour of practical interpretive sketching each class period.

Prerequisites: M, R

145 GEOMETRIC TOLERANCING AND POSITIONING, SPRING 2(2-0)

Second in a series of three blueprint reading courses providing an in-depth study of interpreting geometric tolerancing as it is used on blueprints in today's industrial environment.

Prerequisites: M, R, TRIN144, MACH 110, MATH 100

147 INTRODUCTION TO DIE MAKING, FALL, (ON DEMAND) 3(3-0)

Basic die construction facts around which a successful career in the field of die making can be established. Course will explain the "whys" underlying applied die making and operation. Essential facts of cutting and forming operation are explained and related to the manner in which dies function. Primary die components are discussed along with efficient working die processes through films, videos and plant tours.

Prerequisites: M

148 COIL AND HAND FED PRESS OPERATIONS, (ON DEMAND) 3(3-0)

Basic press components, press operating controls, safe operation procedures, measuring and gaging piece parts, setup and control of tools, changing/installation of die assembly, setup of uncoilers, straighteners, feeds and coil handling procedures, adverse coil and material conditions, and troubleshooting system operations. Principles and practices of press setup and operation will comply with OSHA/MIOSHA safety standards and with metal working industry skill standards.

Prerequisites: M, R, TRIN147

156 INDUSTRIAL RIGGING, SUMMER 2(2-0)

Industrial specialty course for industrial maintenance trades and trades that require basic understanding of techniques, methods and materials needed to perform rigging tasks safely. Basic principles and practices for industrial rigging tools and load configurations, machinery moving, foundations, cranes and hoists, cable, chain and wire rope sling, inspection and maintenance documentation and OSHA/MIOSHA standards.

Prerequisite: M

159 EMPLOYER-EMPLOYEE RELATIONS, SPRING 2(2-0)

An introduction to human relations and self-management skills essential for a successful career. Covers some of the rights and responsibilities of the employer and employee and addresses topics to develop and improve employer and employee relations.

Prerequisites: E, R

243 ADVANCED DIE MAKING, (ON DEMAND) 3(3-0)

Die press operation, advanced die construction and advanced applied diemaking practices. Focuses on inverted, compound and progressive dies, secondary operations and drawing operations. Films, video and plant tours provide exposure to working die processes.

Prerequisites: M, R, MACH 110, TRIN 144, TRIN 147

WELDING (WELD)

101 FABRICATION I, FALL, SPRING FEE, 2(2-1)

Covers punching, shearing, sawing, drilling and cutting. Sub-assembly parts are produced using various equipment. The parts may be joined, by welding, to complete an assembly. Students work in a team environment to complete an assignment.

Prerequisites: none

102 SHIELDED METAL ARC WELDING I (SMAW), FALL, SPRING FEE, 2(2-1)

Covers the process commonly known as stick welding. Upon completion of this course, the student will be able to weld in all positions, read some basic weld symbols, and have a basic understanding of written welding procedures.

Prerequisites: none

103 GAS METAL ARC WELDING I (GMAW), FALL, SPRING FEE, 2(2-1)

Demonstrates welding on steel sheet metals and plates. Emphasis is placed on axial spray, pulse spray and short circuit mode of transfer. Upon completion of this course, the student will be able to weld in all positions, read basic weld symbols, and have an understanding of written welding procedures.

Prerequisites: none

104 WELDING BLUEPRINT READING & SYMBOLS, FALL, SPRING 2(2-1)

Provides practice in reading blueprints. Topics include orthographic projection, auxiliary views, revolved sections, surface and centerline relationships, scale drawing and tolerances. The student interprets detailed weld symbols using the American Welding Society standard.

Prerequisites: none

105 WELDING FABRICATION I, FALL, SPRING FEE, 2(2-1)

Allow students to fabricate a part from a blueprint and weld the assembly with a specified welding process. Cutting and forming may be required prior to assembly. Depending on the size and complexity of the project, students may be asked to work in a team to complete an assignment.

Prerequisites: WELD101 and WELD104, with a C or better

106 WELDING METALLURGY, FALL, SPRING 2(2-0)

This course is to assist those in welding or related industries to extend their knowledge of metals during welding. The main emphasis is placed on reasons for the various behavioural characteristics of metals. The course will focus on: Fundamental welding processes and manufacture of steel, structure and metallurgical changes of metals during welding, physical and mechanical properties, stresses, stress relief and annealing, and weldability of steel and alloys.

Prerequisites: WELD101 and WELD104, with a C or better

200 WELDING FABRICATION II, FALL, SPRING FEE, 2(2-1)

Allows students to fabricate and weld parts from a simple sketch that requires mathematical calculations. Cutting and forming may be required prior to assembly. Depending on the project, students may be asked to work in a team to complete an assignment. As time allows, students may also design and fabricate an individual project.

Prerequisites: WELD104 and MATH100, with a C or better

201 GMAW WELDING II, FALL, SPRING FEE, 2(2-1)

Teaches students to weld on stainless steel and aluminum sheet metal and plate. The student will be able to differentiate, select proper electrodes, shielding gases, and properly adjust parameters. Emphasis is placed on axial spray, pulse spray and short circuit mode of transfer depending on base metal. Upon completion of this course, the student will be able to weld in all positions, read some basic weld symbols, and have a basic understanding of written welding procedures.

Prerequisites: WELD103 and WELD104, with a C or better

**202 GAS TUNGSTEN ARC WELDING (GTAW),
FALL, SPRING FEE, 2(2-1)**

Is a study and operation of primarily gas tungsten arc welding on some mild steel, with the majority of work on stainless steel and aluminum. The student will learn about the different types of electrodes and shielding gases used in these processes. Students will be able to weld in all positions, read some basic weld symbols, and have a basic understanding of written welding procedures.

Prerequisites: WELD103 and WELD201, with a C or better

**203 GAS METAL ARC WELDING (GMAW) PRODUCTION,
FALL, SPRING FEE, 2(2-1)**

An emphasis on metal cored and flux cored electrodes. The main focus is skill enhancement to set standards set forth in AWAS and steel building construction codes. The testing will consist primarily of 0.375" and 1.00" carbon steel in the 3G and 4G positions.

Prerequisites: WELD103 and WELD201, with a C or better

**204 SHIELDED METAL ARC WELDING (SMAW),
PRODUCTION, FALL, SPRING 1(1-2)**

A continuation of SMAW Welding I (WELD102). The primary emphasis will be in the use of E6010, E7018 and E8018 electrodes within the parameters set forth in the various welding codes. The students will enhance skills to standards set forth in AWS, ASME and steel building codes. The testing will incorporate 3G and 4G positions with both carbon steels and stainless steels.

Prerequisites: WELD102, with a C or better

**205 GAS TUNGSTEN ARC WELDING (GTAW) PRODUCTION,
FALL, SPRING FEE, 1(1-2)**

A continuation of GTAW Welding (WELD202). The primary emphasis will be in the use of the various tungsten electrodes being used in industry. The main focus is skill enhancement to standards set forth in AWS, ASME and API codes. The students will be tested in the 3G and 4G plate positions in steel applications, with the greatest emphasis being in the 5G and 6G positions using thin wall stainless steel pipe and tubing and aluminum plate less than 0.315" thick.

Prerequisites: WELD202, with a C or better



Degree Programs

Siena Heights offers junior and senior level courses to associate degree graduates and other students interested in earning a bachelor's degree. Siena Heights will accept up to 90 semester hours of transfer credit. All courses needed to complete the bachelor's degree are offered on the Napier Avenue Campus.

Bachelor of Business Administration

This is a complete business administration degree, providing a strong business foundation within the context of a contemporary liberal arts curriculum. In addition to the standard major, students may focus their electives in management, marketing, finance or accounting for a concentration in those areas. The program's case study method fosters critical thinking, problem solving, communication and decision-making skills, while exploring the social, legal and ethical issues shaping today's business environment. Faculty members are practicing business professionals who bring marketplace reality to the classroom and provide sound career advising for students. An overall 2.25 GPA is required in the major.

Bachelor of Business Administration in Accounting

The BBA degree is also offered with a major in Accounting. This degree is a perfect way for associate degree holders in accounting from Lake Michigan College to continue on and complete a bachelor's degree. Students with accounting credits from other institutions may be required to validate their accounting knowledge in upper-division accounting classes. A 2.25 GPA is required for all Siena classes in the major.

Bachelor of Arts in Community Services

The Community Services major is a program for persons interested, or already involved in, social service careers. This degree prepares students for a variety of career opportunities in the "helping" professions, where social service workers help strengthen the abilities and resources of others. Designed for students with some previous study and/or experience in the social sciences, the program offers a strong overview of the social service field and the role of the professional as an agent for positive social change. Students must maintain a 2.5 GPA in the major.

Other Education Opportunities

Siena Heights University at Lake Michigan College

Siena Heights University is a Catholic, coeducational, liberal arts university founded and sponsored by the Adrian Dominican Congregation in 1919. The main campus, in Adrian, Michigan, enrolls about 1,200 students in full-time and part-time study leading to associate's, bachelor's, and master's degrees. A leader in non-traditional education, Siena Heights has over 25 years experience providing service-oriented education for working adults. Siena Heights was the first private liberal arts college in Michigan to offer degree completion programs designed specifically for adult students. In addition to the Lake Michigan College Center, Siena Heights operates degree completion programs in Battle Creek, Jackson, Lansing, Metropolitan Detroit, Monroe, Port Huron and Ann Arbor.

Degree completion is an integral part of the Siena Heights mission to assist people to become more competent, purposeful and ethical. Siena Heights challenges individuals to identify, refine and achieve their personal goals, and to articulate a personal philosophy of life. Siena Heights University is accredited by the North Central Association of Colleges and Schools.

Bachelor of Arts in Multidisciplinary Studies

This major is a specially designed program with maximum flexibility for adults with a diverse educational background. Each student in the program develops a personalized curriculum contract that includes classes clustered in four areas: humanities, social sciences, natural sciences / mathematics, and applied science / professional studies. This program enables students to address specific career interests quickly and efficiently. For example, a student could focus on management or marketing without committing to a total business administration program.

Bachelor of Applied Science

The Bachelor of Applied Science is a career-oriented degree program designed for professionals with allied health, technical or vocational training and experience, and graduates of two-year occupational programs, or those who have completed an apprenticeship or certain military certification. There is also a MOCAC testing option to obtain credit and establish a major. The B.A.S. is structured on the inverted-major concept, which builds an individually designed academic degree program around the technical or occupational major the student already has completed. B.A.S. students develop a customized degree plan appropriate to their prior learning and future goals. Several B.A.S. programs are described below; however, the B.A.S. is also appropriate for majors such as corrections / law enforcement, computer information systems, hospitality management and many other occupational associate's degree programs.

B.A.S. in Allied Health

Students with previous health care training in nursing, radiologic technology, radiation therapy, ultrasound technology, dental hygiene, surgical technology, medical assistant technology, cardiorespiratory care, and other related fields may combine their training with classes offered by Siena Heights for Bachelor of Applied Science degrees in allied health. Siena awards credit based on registry or licensure, work experience and health care training.

B.A.S. in Trade and Industrial

Many technically oriented Associate of Applied Science degrees may be accepted as bachelor's degree majors. Siena also awards credit for successful completion of programs at many accredited technical and trade schools. Graduates pair their training with classes offered by Siena for the B.A.S. with majors such as nuclear technology, legal office systems, electronics technology, drafting & design technology, industrial maintenance technology, plastics technology, machine tool technology and many more.

The Personal Touch

You've probably already achieved a lot, whether at school, work, in the community or military. Siena Heights University lets students build on that foundation. Known as Michigan's most transfer-friendly college, Siena Heights recognizes a range of traditional and non-traditional credit, including college study, technical or occupational training, professional experience and prior learning. Credit may be awarded for coursework completed at accredited colleges and universities as well as approved technical, trade and allied health schools.

Meeting Adult Needs

Siena Heights University has a flexible, innovative approach to education that offers:

- evening, weekend and online classes
- a variety of credit options, including CLEP, military training and possible credit for college-equivalent learning
- a convenient location
- individualized academic advising

As a result of earning degrees from Siena, many graduates have improved their employment status with new jobs, promotions, pay raises and career changes. Many have also gone on to successfully complete graduate programs.

Graduation Requirements

To receive a bachelor's degree from Siena Heights University, a student must successfully:

- complete a total of 120 semester hours; 30 semester hours must be completed with Siena Heights;
- complete a minimum of 30 credit hours at the 300 / 400 level, including at least 15 hours of upper-level coursework earned at Siena Heights;
- complete an approved major;
- fulfill the general education core requirements;
- demonstrate proficiency in mathematics and writing;
- maintain a grade point average in coursework required for the major at Siena Heights;
- apply for graduation.

Cost

Financial assistance is available through federal and state aid programs. Students may also be eligible for tuition reimbursement from their employers. For information, contact the Siena Heights University Financial Aid Office at (800) 521-0009, extension 7130, or (517) 264-7130.

Admissions

Prospective students may submit an application form online and should request official transcripts from high school and all post-secondary institutions attended, including trade and technical schools. A Siena Heights advisor will help determine if additional information is needed to ensure maximum transfer credit.

It is the policy of Siena Heights University not to discriminate on the basis of race, color, national origin, age, handicap, sex, religion, or sexual orientation.

For More Information

We look forward to working with you! Please contact our office for more information.

Siena Heights University at Lake Michigan College
2755 East Napier Avenue, Room C-204
Benton Harbor, MI 49022
Phone: (269) 927-6711 or
(800) 252-1562 ext. 6711
Fax: (269) 927-861
www.sienaheights.edu

Spring Arbor University

School of Graduate & Professional Studies

The Bachelor of Arts in Management & Organizational Development

The Bachelor of Arts in Management and Organizational Development is designed for adults seeking a future in business and public administration. If you're already in this field, it's a stepping-stone toward advancing your career. If you're building an educational foundation, it's the ideal preparation for graduate studies in management, human resources and related fields.

By choosing to earn your bachelor's degree from Spring Arbor University you're choosing:

- Classes one night a week—really
No extra lectures or study sessions in between—so you can consistently keep your other commitments.
- Face-to-face learning
Spring Arbor University's emphasis on writing and communication means your computer won't be your only teacher. You'll also learn from your professors and your classmates.
- A fast track to graduation
The management and organizational development program can be completed in 61 sessions.
- Service and convenience
We deliver your textbooks. Parking is always convenient. Advisors help you plan for classes. You never wait in line for registration. Spring Arbor University helps you with all the details, large and small.
- Credit for prior learning
Credit may be earned for documenting college-level learning from professional training or personal life experiences.
- An education grounded in faith
Our Christian commitment means that questions of ethics, religion and faith are welcomed as an essential part of a meaningful education.
- A history of excellence
Founded in 1873, Spring Arbor University began Michigan's first adult studies programs in the early 1980s. Since that time, we've helped thousands of working adults like you get more out of life.

In short, Spring Arbor University's accelerated bachelor's degree programs allow you to make the most of your time, your money, your career and your life.

Call 877.MORELIFE today to find out more.

Admission and Financial Aid

Admission to this program requires prior completion of 58 semester hours. Hours can be earned through testing and approved courses taken at other accredited institutions. For more application and credit transfer information, contact one of our admissions specialists.

When you enroll in this program, you may qualify as a full-time student, even though you're only attending classes one night a week. To apply for financial aid through the Michigan Tuition Grant, Pell Grant, and other forms of grants and scholarships, complete the Free Application for Federal Student Aid (FAFSA) form.

For more information on how to apply for financial aid, contact a site near you, or visit www.arbor.edu/morelife.

Don't just get your education. Live it.

Relevant to career, family and faith alike, the courses you'll take in the Bachelor of Arts in Management and Organizational Development program are as practical as they are meaningful.

- Psy 310 - adult development & life planning
Stresses the experiential nature of nontraditional education and adult development theory
- Wrt 312 - critical analysis & research writing
Focuses on critical thinking, academic expository and analytical writing
- Mod 437 - organizations & environments
Concentrates on structure and design of organizations with primary emphasis on the organization as an open system
- Mod 452 - group & organizational behavior
Studies group behavior and how groups function in an organization
- Mod 343 - individual in the organization
Centers on organizational behavior as it relates to individual motivation, productivity and performance
- Ids 300 - biblical perspectives
Fosters knowledge and understanding of the literature and history of the Bible, and the integration of faith, living and learning
- Mod 349 - statistical methods & research
Focuses on identifying and measuring objectives, collecting data, working with significance levels, analyzing variance and constructing questionnaires
- Mod 432 - human resource management & supervision
Assists students in understanding and applying principles and practices related to human resources issues and functions
- Mod 368 - management of financial resources
Assists students in understanding basic concepts of financial management
- Mod 402 - principles of leadership & management
Examines leadership studies and theories of management in a historical context
- Ids 400 - values: personal & social
Explores values through readings and analyses of the workplace
- Mod 460 - research project
Combines research and practical implementations of theories, concepts and problem solving in the context of the student's occupation or avocation

Spring Arbor University is accredited by the higher learning commission.

Management and Organizational Development

The management and organizational development (MOD) program provides students with expertise in management, human dynamics, and organizational development for business and public administration.

Using a systems approach to the problems, principles and practices of management, graduates of the program will be able to incorporate conceptual and theoretical knowledge into practical work environments.

Positions for MOD Graduates

Account Executive
Air Traffic Control Manager
Camp Program Director
Controller
Coordinator
Crisis Telephone Consultant
District Service Manager
Financial Aid Director
Fire Chief
Human Resources Manager
Interoffice Capacity Planner
Maintenance Manager
Project Manager
Property Manager
Retention Specialist
Staff Accountant
Test Engineer
Veteran's Affairs Coordinator

Employers of Spring Arbor University's MOD

Amway Corporation
Blue Care Network
Bosch Corporation
Chrysler Corporation
Eaton Corporation
Electronic Data Systems
General Motors
GTE
Haworth
Kellogg Community College
Nippondenso
Parker Industries
Pfizer Corporation
Physicians Health Plan
Qualified Personnel
Spartan Corporation
State Government
Steelcase
U.S. Government
Whirlpool

Graduate Programs (in which MOD graduates enrolled)

Accountancy
Business Administration
Counseling
Divinity
Educational Administration
Management
Organizational Management
Public Administration
Science in Administration
Social Work

This information is based on a survey of Spring Arbor University MOD graduates. Careers are not limited to the above list. Some positions may require additional educational background.

Call Today 877.MORELIFE
www.arbor.edu/morelife

Western Michigan University-Southwest at Lake Michigan College

Lake Michigan College and Western Michigan University have partnered to bring bachelor degree programs to LMC students.

WMU-Southwest is located on LMC's Napier Avenue campus and is housed in a state of the art 45,000 square foot facility. If you are pursuing a bachelor's degree in Business Administration, Elementary Education, or Manufacturing Engineering, you will be able to take your first two years of courses at Lake Michigan College (with LMC tuition rates), and then seamlessly move into junior and senior level courses at WMU-Southwest on the Lake Michigan College campus.

About Western Michigan University

Western Michigan University, whose main campus is located in Kalamazoo, Michigan is a public, national university committed to excellence in graduate and undergraduate education. Founded in 1903 as a "normal" school, WMU enrolls more than 25,000 students. The Carnegie Foundation for the Advancement of Teaching places WMU among the 76 public institutions in the nation designated as research universities with high research activity.

Extended University Programs (EUP) supports the delivery of the University's academic programs to provide educational opportunities across Michigan and beyond, through eight regional locations: Battle Creek, Grand Rapids (two sites), Lansing, MetroDetroit, Muskegon, Southwest for the St. Joseph and Benton Harbor region, and Traverse City. Through these regional locations, EUP promotes advanced lifelong learning in Michigan by supporting faculty in their planning and delivery of undergraduate and graduate programs, and by providing a strong link between campus units and off-campus students. In addition, EUP delivers e-learning courses, offering online semester-based and open learning courses (that provided flexible course completion timelines) as well as professional certificates and lifelong learning enrichment courses.

Undergraduate Degree Programs

Students can begin course planning by working closely with the counseling office at LMC and meeting with WMU advisors at WMU-Southwest. Knowing how a course transfers from LMC toward degree requirements at WMU will help applicants make a smooth transition into a baccalaureate transfer program.

Taking LMC and WMU Courses Concurrently

You can be enrolled at LMC and WMU at the same time as long as you meet the pre-program requirements. By being dually enrolled, you can begin work on your professional program at WMU while still finishing some of your required LMC courses. Once you are admitted to a WMU degree program and have enrolled in WMU-Southwest courses, you may also take courses on the WMU main campus, or at any of the WMU regional locations as well as online.

Business Administration

The Business Administration transfer program leads to a Bachelor of Business Administration degree. Students receive a management major with a general business minor. The curriculum is designed to prepare students to understand and apply global business knowledge

and diverse perspectives in their careers. The program is offered part-time in the evenings. The WMU Haworth College of Business is accredited by the Association to Advance Collegiate Schools of Business (AACSB) for more than 25 years. To earn the B.B.A. degree, a minimum of 124 credit hours are required.

Elementary Education

The Elementary Education transfer program leads to a Bachelor of Science degree. The curriculum is designed to prepare students to assume teaching responsibilities in grades K-5 in all subjects, grades 6-8 in second and third minors, and grades K-8 in all subjects when teaching in a self-contained classroom. It is a part-time or full-time, day or evening program. Students receive a minor in elementary education and choose two additional minors. The choice of minors includes Integrated Science, Elementary Language Arts, Elementary Social Studies, and Elementary and Middle School Mathematics (with some math courses required at Kalamazoo campus). To earn the B.S. degree, a minimum of 122 credit hours are required.

Manufacturing Engineering

The Bachelor of Science in Engineering (Manufacturing) degree at WMU is one of the few manufacturing engineering degrees offered in the nation. The program is designed to develop engineers who have the ability to take a product or concept and design the manufacturing processes. The program also prepares students for diverse roles in the manufacturing enterprise by providing knowledge of several engineering disciplines, including mechanical, electrical and industrial engineering. The program consists of 128 credit hours.

Graduate Degree Programs

WMU offers graduate classes for applicants with a bachelor's degree who wish to earn a graduate degree or a certificate. In addition to a degree program application, some students elect to apply for Non-Degree Status (NDG) which allows applicants to take classes without pursuing a degree program.

Coaching Sport Performance

The Master of Arts in Coaching Sport Performance offered through the College of Education requires a minimum of 36-hours. The degree supports an athlete-centered philosophy of sport and encourages each student to set personal goals that will maximize the benefits of sport for all participants. The objectives of the program are aligned with those identified in the national Standards for Sport Coaches by National Association for Sports and Physical Education.

Educational Leadership

The Department of Educational Leadership, Research and Technology offer a Master of Arts in Educational Leadership, with a concentration in K-12 School Principal Leadership, available at WMU-Southwest. Some courses in K-12 Curriculum and Leadership, Organizational Leadership, and Higher Education & Student Affairs Leadership concentrations are also available. This program prepares leaders for educational organizations, including K-12 schools, higher education, governmental agencies and professional associations with this 30-hour program.

Education – The Practice of Teaching

The Master of Arts in the Practice of Teaching is a 30-hour degree structured in a manner that allows teachers to customize their program of study to meet individual needs and professional goals. This flexibility allows students to focus their program toward an academic content area related to their own teaching position (such as science, mathematics, language arts, etc.), or to an area that addresses other personal, academic and professional interests (fine arts, leadership, foreign language, psychology, etc).

The Practice of Teaching - Urban Education specialization brings students together from WMU locations in Battle Creek, Muskegon and Benton Harbor/St. Joseph. This regional cohort program enables students to engage with, relate to, and learn from individuals from different school systems across West Michigan, allowing for a significant and powerful educational experience. It is designed for P-12 teachers and instructional leaders who want to explore the socio-cultural contexts of schooling, diversity, multiculturalism, issues of race, class, gender, and social justice.

Social Work (Cohort)

The Master of Social Work (MSW) program at WMU-Southwest is offered as a cohort program as enrollments allow. It is nationally accredited by the Council on Social Work Education. The courses prepare students for direct-service and leadership positions in the field of social welfare.

Graduate Certificates

18-Hour Professional Teacher Development

This program enables a teacher to complete the requirements for the Michigan Professional Education Teaching Certificate without pursuing a Master's degree or a new endorsement. Additionally, specific professional development goals or areas of interest may be explored, with advisor approval. If later the teacher decides to pursue a master's degree, some of the coursework may apply towards credit hours in the degree program.

Excellence in Education

Western Michigan University strives to serve its students with an education of excellence obtained from degree programs that are nationally recognized and certified. WMU-Southwest additionally serves its students with evening and weekend courses to meet the needs of the area's working adults. Most student services, such as admissions and advising, are offered at the Southwest regional location.

Cost

Financial assistance is available through federal and state aid programs. Students may also be eligible for tuition reimbursement from their employers. For information, contact the Western Michigan University Financial Aid office at (269) 387-6000 or visit their website at www.wmich.edu/finaid.

Admissions

Prospective students may submit an application form online at www.wmich.edu/apply or by bringing the application into the Southwest regional location with the non-refundable application fee. Students must request official transcripts from all post-secondary institutions they have previously attended to be sent to:

**Western Michigan University
Office of Admissions
1903 W. Michigan Avenue
Kalamazoo, Michigan 49008-5211**

For more information please contact us:

**Western Michigan University – Southwest
2785 E. Napier Avenue
Benton Harbor, MI 49022
Phone: (269) 934-1500
Fax: (269) 934-1505
www.wmich.edu/southwest**



Academic and College Policies & Procedures

Academic Complaint Procedures Procedure for General and Informal Issues

Students having concerns, problems, or complaints of a general instructional nature (e.g., faculty, course offerings, procedures) should immediately confer with the appropriate instructor involved in an effort to resolve the issues informally.

If, after working with the appropriate faculty member, the student's concerns or problems are not resolved, the student should then confer with the appropriate department chair in an effort to find a resolution.

If, after working with the appropriate department chair, the student's concerns are not resolved, the student should discuss the issue with the appropriate instructional dean, whose decision is final.

Disclosure to accreditation agencies

All complaints submitted in writing, signed by a student, and addressed to or submitted to an institutional officer may be shared with any of the several agencies that accredit the College or its programs. Individual names will not be shared without the express permission of the complainant.

Procedure for formal grade appeals

Students who desire to appeal a grade are to follow this procedure in this sequence.

(1) Instructor. A student concerned about a grade should immediately discuss the issue with the instructor who awarded the grade. This appeal to the instructor is to occur as soon as possible and certainly within ten days of learning of the grade. The instructor will meet with the student, consider all of the issues, and then render a decision.

(2) Department Chair. If, after discussion with the appropriate instructor, the dispute is not resolved, the student may appeal to the appropriate department chair within ten days of notification of the instructor's decision. The department chair will meet with the persons involved, attempt to resolve the issue, and then render a decision which will be communicated to the student in writing.

(3) Instructional Dean. If, after discussion with the department chair, the dispute is not resolved, the student or faculty member may, within ten days of notification of the department chair's decision, appeal to the appropriate instructional dean. The Dean will meet with the persons involved in an attempt to resolve the issue and then render a decision which will be communicated in writing. The decision of the Dean is final.

If a student appeals the final grade for a course, the formal appeal is to be completed within the semester immediately following the one in which the course grade was received. Grades older than one calendar year may not be appealed.

Grade appeal decision guidelines

When appealing a grade, the student is responsible for providing factual information and documentation to support the need to alter or modify the grade. If appealed beyond step (1) above, the department chair, and Dean shall carefully consider whether or not the grade and the decisions leading up to it (a) were within the scope of the authority of the individual making the decision, (b) were done in accordance with established policies or procedures, and (c) were neither arbitrary nor capricious.

Other issues

The above procedures exclude issues related to sexual harassment, civil rights, Title IX, and disability concerns. Problems in these areas should be discussed with the Assistant Director of Human Resources and Diversity, Room A305, (269) 927-8102.

Academic Intervention

Under review – Check website for updates

Academic Intervention is a practice used by Lake Michigan College to assist students with successfully maintaining required Academic Standards of Progress. Several intervention strategies are proactively employed by the College, including Supplemental Instruction, Freshman Seminar, and a tutoring program. You should talk with your academic advisor to access these services.

If your cumulative GPA does fall below the level required to maintain satisfactory academic standing, you will be subject to more aggressive intervention strategies, including being placed on Academic Probation or Academic Dismissal from the College for one or more semesters.

Students placed on academic intervention for any semester will be required to see the At-Risk Advisor before the end of the drop-add period of that semester. Authorization from that advisor will be required to register for or remain in classes for which the students have already registered.

Academic Probation

Students placed on Academic Probation for any semester will be required to see the At-Risk Advisor prior to registering. The At-Risk Advisor will develop a written plan of help for the student. This plan will be discussed with the student during their meeting with the At-Risk Advisor.

Students on Academic Probation will be required to:

1. Meet with the At-Risk Advisor at least three times during that semester.
2. Limit their enrollment as described in the student's plan of help. A study skills class is strongly recommended.
3. Obtain a grade of "C" or better for each class in which they are enrolled.

Students who fail to meet these requirements will be subject to Academic Dismissal.

Academic Dismissal

If a student who has been placed on Academic Probation does not meet the three requirements previously listed, they will be prohibited from enrolling in classes at LMC for one semester. This semester of non-enrollment must be the following Fall or Winter semester. At the time they return to LMC, they will automatically reenter the Academic Probation program and be expected to accomplish all requirements as stated in items 1 through 3 above.

Academic intervention advisors will:

1. Meet with the student at least three times during the semester in which they have been placed on Academic Probation.
2. Provide the student information about sources of help and assist them in accessing resources that are deemed most beneficial.
3. Provide students information on withdrawing from classes and other information and/or material appropriate for enabling them to pursue their educational goals more successfully.

Appeal Process

Students who have been notified of their academic dismissal from Lake Michigan College may appeal in writing to the Executive Dean of Student Services following the college's Due Process procedure.

Academic Standards of Progress

Lake Michigan College is committed to helping students meet their educational goals. When students are not making acceptable academic progress, the College will provide positive intervention strategies designed to help students evaluate their individual situations and return to satisfactory academic standing. Intervention strategies are detailed in the section, "Academic Intervention." Students must maintain a cumulative grade point average above the ranges detailed below to be considered in good standing.

Students will have their cumulative GPA calculated at the end of each semester (Fall, Spring and Summer) and, if it falls within the range as indicated in the table below, they will be placed on academic probation and will be notified in writing by Student Services.

Credit hours attempted	GPA Range
6 to 15	1.00 to 1.50
16-30	1.25 to 1.75
31 or more	1.5 to 1.99

Students placed on academic probation will be required to meet with the At-Risk Advisor to review their progress. If a student has pre-registered, it will be necessary to gain the advisor's approval to remain in the classes for which he or she has pre-enrolled. Students whose cumulative GPA falls below the ranges indicated above will be required to follow a prescriptive plan developed by the At-Risk Advisor.

Note: Students on Financial Aid, participating in intercollegiate athletics, and/or enrolled in Health Science programs and/or other programs with specific criteria different from this standard will be required to meet the academic standards of progress for those programs as outlined in the College catalog and in program-specific student handbooks.

Academic Recognition

Two academic recognition lists are published at the completion of Fall and Spring semesters: President's List, and Dean's List.

President's List students must have been enrolled full-time completing a minimum of 12 semester hours of 100-level or above courses in the semester. President's List are those students who have earned a semester GPA of 4.0 for the semester courses.

Dean's List students must have earned a semester GPA of 3.5 or higher in courses at or above the 100-level. This list is published by enrollment status. Full-time students must have completed at least 12 credit hours for the term. Part-time students must have accumulated a minimum of 12 semester hours and have been enrolled for between 6 and 11 semester hours for the term.

Grades for remedial courses (099 or below), grades of W, S, U, IP, or TR (courses transferred into Lake Michigan College) are not computed in the Lake Michigan College grade point average and therefore do not meet the qualification for courses for academic recognition.

Acceptable Use for Technology Resources

Lake Michigan College has made available to its students, faculty, staff, and guests a variety of technology resources for the pursuit of supporting academic programs and operational goals. Technology resources include desktop computers, laptops, internet access, Local Area Network (LAN), Wide Area Network (WAN), wireless network access, printers, data projectors, email, electronic media, electronic records, phones, video, audio, scanners, software applications, photocopiers, cameras, digital signs, and portable digital devices.

The use of technology resources at LMC is a privilege and must fall within acceptable use as outlined in the rules of this policy. LMC has the right to monitor the use of the technology resources. LMC may revoke individual access any time appropriate use is violated. Nothing in this policy shall preclude separate "conditions of use" from being implemented by units of LMC or by LMC with respect to portions of its electronic technology resources. Such conditions of use shall be deemed to supplement, rather than replace, this policy.

LMC reserves the right to log internet use, inspect electronic records and monitor electronic communication that reside on College assets or that utilize the College's network. This means that there should be no expectation of privacy with respect to use of the computer systems. LMC may, at its discretion, review the sites and programs accessed by students, faculty, staff and guests, including the messages sent or received. Such monitoring may be conducted without notice.

Acceptable use must be legal; ethical; show respect for intellectual property and an individual's right to privacy, freedom from intimidation, harassment and unwarranted annoyance; reflect academic honesty; and show restraint in the consumption of shared network resources.

In addition to the conduct set forth below, LMC specifically deems as just cause for disciplinary action up to and including non-reappointment, discharge, dismissal, suspension, expulsion, termination, and/or legal action for:

1. Violation of copyright, patent, license agreement, or contract.
2. Interference with the intended use of technology resources by denial of service attacks or other hacking activities.
3. Any attempt to gain unauthorized access to information.
4. Any unauthorized invasion (or attempted invasion) of the privacy of others.

The following activities are prohibited using LMC's technology resources:

1. Violating any federal, state, local, or common law, or statute.
2. Violating any libel or slander laws.
3. Installing institutionally owned software on personally owned computer(s) unless the institution's software agreement with the licensor permits such use.
4. Sharing account numbers or passwords with someone else.
5. Publicly disclosing or violating the privacy of an individual by sharing personal, confidential or private information such as home addresses, phone numbers, student id's, etc.
6. Communicating a false identity or that they are representing someone else.
7. Using any college network or other communications system to obtain or to disseminate pornography.
8. Using technology for private business, or product advertisement or political lobbying.
9. Seeking to gain unauthorized access to computing resources or data.

10. Loading software on College owned computers unless approved by Information Technologies.
11. Using College owned facilities in violation of current copyright laws, such as copying software for which one is not the registered owner, or by providing copies of copyright protected software to others.
12. Engaging in activities that damage or disrupt hardware, software, or communications, such as virus creation and propagation, wasting system resources, and overloading the network with excessive data requests.
13. Transmitting or making accessible offensive, annoying, or harassing material, such as broadcasting unsolicited messages (SPAM) or sending mass emails.
14. Intentionally accessing or damaging systems or information or using any system for illegal activities.
15. Attaching any computer or network device that is not owned by Lake Michigan College to the Lake Michigan College wired Ethernet infrastructure.
16. Enabling or otherwise implementing any wireless radio equipment which interferes or has the potential to interfere with the College's existing IEEE 802.11 wireless network.
17. Implementing any wireless networking equipment or application for the purpose of relaying or retransmitting any LMC data network communication.

The College seeks to protect the civil, personal, and property rights of those who use its technology resources, as well as those whose student or employment records are maintained on its computing systems. Any unlawful attempt to access these resources is a serious offense, which will be addressed by the College's disciplinary or legal action as outlined in the Lake Michigan College's Policies and Procedures and the Student Code of Conduct. Such conduct may also be subject to criminal or civil legal action and may be reported to governing authorities as required by law.

Amnesty of Semester Policy

Amnesty of Semester is the removal from consideration for student grade point average, program completion and graduation, all academic classes and the grades received for such classes during the college semester(s) for which amnesty is granted. Amnesty of Semester, if granted, applies only to Lake Michigan College; there is no guarantee expressed or implied that Amnesty of Semester will be recognized by any other institution.

- A. Any student who has been enrolled in academic classes may apply for Amnesty of Semester.
- B. Amnesty of Semester may be requested for one of the following:
 1. A maximum of the first eighteen (18) semester hours of credit earned or failed during the first two (2) consecutive semesters of attendance at Lake Michigan College (may not use partial semester); or
 2. Any single semester of enrollment at Lake Michigan College totaling not more than 18 credit hours.
- C. A minimum of one calendar year must elapse between the semester(s) being considered for Amnesty of Semester and the granting of the request.
- D. Amnesty of Semester will not be granted for a partial semester(s) and, if granted, shall apply to all credits earned or failed taken in the semester(s) for which Amnesty is granted, regardless of the grade received.

- E. Amnesty of Semester if granted, results in none of the affected coursework being counted for admission to restricted programs, Financial Aid, graduation, and/or meeting program requirements at Lake Michigan College.
- F. Amnesty of Semester does NOT remove any course/grade at Lake Michigan College, which would normally be on a transcript, from the academic transcript. Any semester(s) for which Amnesty is granted shall be so identified on the transcript.
- G. A student may be granted Amnesty of Semester only once at Lake Michigan College; Amnesty of Semester is final and cannot be revoked or rescinded by the College or the student.

- initiate a program of study beginning after April, 1988;
- earn a minimum grade of 2.0 in the course(s) taken for transfer credit;
- complete a program of study as planned and signed by the student and the A.O.Q. counselor;
- meet the admission criteria of the baccalaureate degree institution;
- transfer to a baccalaureate degree institution within one year of completing an Associate in Arts, Associate in Science, or Associate in Business Administration degree at Lake Michigan College.

Assurance of Quality – Career Education & Transfer Programs

Career Education Programs

Lake Michigan College assures that the courses completed with a grade of “C” or better in an Associate in Applied Science, Associate in Applied Business, or Associate in Industrial Technology will provide entry-level skills needed for a particular occupation. To qualify, the student must:

- initiate the program of study after April, 1988 and complete within three years of initiation, with a GPA of 2.0 or better;
- follow the official LMC program guide sheet, dated 1987 or thereafter, for course selection;
- be employed full-time within one year of graduation.

Note: Some students may be employed while completing the requirements for an associate degree. The AOQ will apply if the position held at the time of graduation is compatible with the associate degree earned.

Retraining

If the student is subsequently judged by an employer to be lacking in technical job skills normally expected of an entry-level employee within his/her major, LMC will provide further skill training up to 16 semester credit hours within two academic years without additional charge for tuition or fees.

- In order to be eligible for retraining, the employment must be certified by the Career Planning & Placement Office as being directly related to the graduate’s program of study.
- The employer must provide written certification that the employee is lacking the entry level job skills that were identified, in writing, at the time of initial employment, and must specify the area(s) of skill deficiency within 90 days of the graduate’s initial employment.
- The employer, the graduate and a college faculty advisor, with advice of appropriate teaching faculty, will develop an educational plan specifying up to 16 credit hours of retraining. Such courses must be those regularly offered by LMC.
- The retraining courses will be limited to 16 hours of registration regardless of outcome.

Transfer Programs

Lake Michigan College assures that any course on the appropriate transfer guide sheet will transfer to the baccalaureate degree institution identified in the guide. To qualify, a student must:

Tuition Reimbursement:

If all conditions are met, Lake Michigan College will refund tuition for any course that is not acceptable for transfer by the baccalaureate degree institution.

Attendance - Class

It is consistent with the College philosophy that regular class attendance is necessary if the student is to receive maximum benefit from the course. Students are expected to be fully prepared and to attend every class and laboratory period for which they have registered. Absences should be explained to the instructor and must be made up by the student in a way satisfactory to the instructor within a reasonable period of time after returning to class. Attendance is a requirement for most financial aid awards.

There are special events and circumstances that may make it desirable that students miss one class in order to attend the special session of another class. However, if this is the case, attendance at the special session should be optional. The class originally scheduled for the time period involved has priority. Students, after having consulted with the instructors involved, must make the ultimate choice regarding which class session or event to attend. Although circulation of lists of students expected to attend a special event is desirable to notify colleagues of an impending conflict, unless signed and approved by the dean, such a list does not constitute an excused absence. In the case of an excused absence, students should be given an opportunity to make up graded, in-class exercises that were missed. Graded materials done outside of class, but due on the day missed, should be completed prior to an excused absence.

If there are recurring special events, such as athletic contests, in which attendance by students will be required, students and advisors should not schedule any classes that conflict with the special events. If occasional conflicts cannot be avoided, contacts should be made as early as possible with all involved instructors so that adequate planning can be made to avoid putting students in a position where they will be penalized for non-attendance.

A student who claims illness as a cause for excessive absence must be prepared to present a statement from the attending physician. If absences are incurred at the end of the semester or during the final examination, a grade of Incomplete may be given.

Two weeks of consecutive absences or failure to attend 20 percent of the scheduled semester contact hours for a class makes a student subject to withdrawal from the class at the recommendation of the instructor. Students in the Nursing and Radiologic Technology programs are subject to withdrawal from class if absences exceed one week’s class and clinical hours. Technical classes are also included where hazardous conditions may cause injury to students or damage to equipment through misuse. Lake Michigan College will comply with legal requests of governmental and private agencies for information on student attendance.

Note: Student is responsible to Drop or Withdraw from courses. LMC does not Drop or Withdraw based on attendance.

Auditing Courses

To AUDIT is to take an academic course for NO CREDIT. Some of the reasons for auditing are personal exploration, enjoyment or gaining insight into a new subject.

A student wishing to attend a credit course on a no-credit basis may register to audit the course; however, when openings in a class are limited, preference shall be given to students enrolling for credit. Tuition is paid at the same rate as for a credit course and the same attendance policy applies. Students receiving Financial Aid or Veteran's Benefits will not be certified to receive aid or benefits for audited courses. A student may change from audit to credit and vice versa only during the Add/Drop period.

Children on Campus

Children under age 16 not enrolled in a College class must be under the direct supervision of a responsible adult any time they are on College property. Students are not to bring children to class unless the child's attendance is required as part of the student's responsibilities in completing a course assignment or the student receives permission from the instructor.

Students may use the Kidzone Preschool & Child Care Center, L.L.C. on the Napier Avenue Campus and the South Haven Campus for child care needs. Kidzone is privately owned and operated and is not affiliated with Lake Michigan College.

Diversity

The Lake Michigan College Board of Trustees has reaffirmed the College's continuing commitment to equal opportunity, nondiscrimination and affirmative action. Lake Michigan College is an equal-opportunity institution, affording enrollment, employment and services without distinction on the basis of age, color, height, weight, creed, disability, marital status, sexual orientation, national origin, political affiliation, race, religion or sex. For more information, contact the Affirmative Action Officer.

Code of Conduct Policy to Support Drug-Free Workplace

The welfare and success of Lake Michigan College depends on the physical and psychological health of all students and employees. The abuse of drugs and alcohol poses a serious threat to the College, its students and its employees. Commonly abused or improperly used drugs and substances include, among others, alcohol, pain killers, sedatives, stimulants and tranquilizers as well as marijuana, cocaine, heroin and other illegal drugs.

Lake Michigan College does not encourage or discourage alcohol consumption for those individuals who are of legal age in the state of Michigan. However, Lake Michigan College requires that when alcohol is consumed on the premises, it be utilized in a socially responsible manner and only in those public situations previously approved by the College.

It is the joint responsibility of the College, its students and employees to follow the policies and procedures developed to support a safe, drug-free environment. Be it known, therefore, that Lake Michigan College will make a good faith effort to continue to maintain a drug-free work place through the implementation of the following policy. The manufacture, distribution, possession, unauthorized use or sale

of any federally controlled substance and/or alcohol on College premises or while engaged in College activities is prohibited and will be subject to discipline, including expulsion. The College will establish such procedures as it finds necessary to effectively enforce this policy. The College provides confidential help with alcohol or drug problems through referrals to support groups and community agencies. Students are encouraged to seek assistance before the problem affects judgment, performance or behavior. Contact a College counselor for assistance.

Electronic Devices in the Classroom

Recording devices, cellular phones, pagers, personal data devices, MP3 players, CD players, radios, and similar devices may be used in the classroom and laboratory facilities only with the specific permission of the instructor or the lab administrator.

Equal Opportunity for Disabled Students

According to Section 504 of the Rehabilitation Act of 1973, no qualified disabled person shall, on the basis of the disability, be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination under any program or activity that receives or benefits from Federal financial assistance. Students must register with the office of Special Populations to receive assistance and request academic accommodations.

GRIEVANCE PROCEDURES For: Title VI of The Civil Rights Act of 1964, Title IX of The Education Amendments of 1972, and Section 504 of The Rehabilitation Act of 1973

Section I. If any person believes that Lake Michigan College or any part of the College organization has inadequately applied the principles and/or regulations of Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, and/or Section 504 of the Rehabilitation Act of 1973, he/she may bring forward a complaint, which shall be referred to as a grievance, to the College Affirmative Action Officer at the following address: Director, Human Resources & Affirmative Action Officer, Lake Michigan College, 2755 E. Napier Ave., Benton Harbor, MI 49022-1899.

Section II. The person who believes he/she has a valid basis for grievance shall discuss the grievance informally and on a verbal basis with the Affirmative Action Officer, who shall in turn investigate the complaint and reply with an answer to the complainant. He/she may initiate formal procedures according to the following steps:

Step 1. A written statement of the grievance signed by the complainant shall be submitted to the Affirmative Action Officer within five (5) business days of receipt of answers to the informal complaint. The Affirmative Action Officer shall further investigate the matters of grievance and reply in writing to the complainant within five (5) business days.

Step 2. If the complainant wishes to appeal the decision of the Affirmative Action Officer, he/she may submit a signed statement of appeal to the College President within five (5) business days after receipt of the Affirmative Action Officer's response. The President shall meet with all parties involved, formulate a conclusion, and respond in writing to the complainant within ten (10) business days.

Step 3. If the complainant remains unsatisfied, he/she may appeal through a signed, written statement to the Board of Trustees within five (5) business days of receipt of the President's response in Step 2. In an attempt to resolve the grievance, the Board of Trustees shall meet with the concerned parties and their representative within forty (40) days of the receipt of such an appeal. The complainant, at his or her discretion, may request a closed meeting with the Board. A copy of the Board's disposition of the appeal shall be sent to each concerned party within ten (10) days of this meeting.

Step 4. If at this point the grievance has not been satisfactorily settled, further appeal may be made to the Office of Civil Rights, Department of Education, Washington, DC 20201.

Inquiries concerning the non-discriminatory policy may be directed to Director, Office for Civil Rights, Department of Education, Washington, DC 20201. The College Affirmative Action Officer, on request, will provide a copy of the College's grievance procedure and investigate all complaints in accordance with this procedure. A copy of each of the Acts and the regulations on which this notice is based may be found in the College Affirmative Action Officer's office.

FERPA

See Student Information (Confidential) - Access To and Release of Policy

Fire Arms

See Weapons-Free Campus Policy

Grades

Grade Point Averages (GPA) are often used to determine your eligibility for university entrance, standing on the honor roll, and minimum graduation requirements.

Semester GPA

To calculate your semester GPA, set up four columns. In the first, list your credits. In the second column, list your subjects. In the third column, write your letter grades. In the fourth column, record your points, i.e. A=4, B=3, C=2, D=1, E=0. Multiply the point value of each grade by the credit value of the subject.

Add up the points of the fourth column, and divide this by the number of credits listed in the first column.

EXAMPLE:

Credits	Subjects	Grades	Calculation	Points
3	English 101	B	3x3	9
3	Math 101	C	3x2	6
3	Political Science 101	A	3x4	12
3	Chemistry 101	A	3x4	12
3	Computer Science	C	3x2	6
15	Total			45
			45/15=3.00	GPA

Cumulative GPA

To compute your cumulative grade point average, add up the total number of points earned and divide by the total number of credits. This is your cumulative GPA.

Dean's List

(See Academic Recognition section)

Grading Policies

- Students who have completed all course requirements as defined by the instructor will be issued grades of A, B, C, D, or E. Students who do not complete the semester, but whose standing in the course is passing, whose extenuating circumstances are beyond their control, and whose unfinished work is minimal, may be issued a grade of "I" (Incomplete). Such a grade must be removed as arranged with the instructor, but not later than the last day of classes one year later, or it will be treated as a grade of "E". An "I" is computed in the GPA as an "E" and may affect financial aid eligibility. An "IP" (In Progress) grade will be assigned to students who are enrolled in open entry/open exit (oe/oe) classes and other classes that cross semesters, and have not completed their assigned work at the end of the semester in which they are enrolled. Work must be completed by the end of the following semester and a grade will be assigned. An IP grade will not be computed in the student's GPA.
- All other grade changes must be made within one semester of their issuance.
- Students who withdraw from class(es) through 80% of the semester will be assigned a grade of "W."
- Grade Point Average (GPA). A, B, C, D, E, and I will be computed by dividing GPA points by GPA hours. Grades for remedial courses (099 and below), IP, W, S and U will not be computed in the Lake Michigan College grade point average.

Contact the Office of Records & Registration for more information.

Reporting and Availability of Grades

Student's grades will be available approximately three weeks after the close of each semester electronically through WaveLink if a student's financial account is in proper order.

Student's grades are available for their own review at any time. However, grades will not be reported over the telephone. Students who are seeking employment and who wish their grades released to personnel offices or prospective employers must contact the Office of Records and Registration to request a transcript. No grades will be released at the end of the semester nor will transcripts be issued if student bills are unpaid. This applies to Business Office accounts, library materials, parking fines, or other expenses incurred while attending Lake Michigan College.

Guest Students

Students who attend a college or university other than Lake Michigan College may enroll in Lake Michigan College course work as guest students. Those wishing to enroll as guests at Lake Michigan College must submit the MACRAO approved Michigan Uniform Undergraduate Guest Application at registration. Guest students are afforded all the rights and responsibilities of matriculated Lake Michigan College students except they are not eligible for financial aid or degree or certificate. Guest students may enroll in course work for which all stated pre-requisites have been met.

Guns

See Weapons-Free Campus Policy

Privacy Act - FERPA

See Student Information (Confidential) - Assess to and Release of.

Non-Discrimination

Notice of Non-Discrimination Policy

Lake Michigan College is an equal opportunity institution, affording enrollment, employment and services without distinction on the basis of age, color, height, weight, creed, disability, marital status, sexual orientation, national origin, political affiliation, race, religion, or gender. Minorities and disabled persons are encouraged to attend Lake Michigan College. Any questions regarding your rights under Title VI and Title IX should be directed to Assistant Director, Human Resources and Diversity, (269) 927-8102, Room A-305.

Any questions regarding your rights under Section 504 should be directed to Student Resource Center, (269) 927-8100, ext. 5192.

Lake Michigan College offers an "open door" admissions policy for individuals who are interested in and capable of benefiting from the post-secondary experience. Any person can apply for admission to Lake Michigan College who is interested in and capable of benefiting from the post-secondary experience, and who is:

1. A high school graduate or GED recipient, or
2. Eighteen years of age or older, or
3. Demonstrates Ability to Benefit on an approved College assessment instrument. Individuals who are under the age of 18 and demonstrate the Ability to Benefit will be offered acceptance after that individual's high school class has graduated. Individuals can be admitted as a student at LMC without a high school diploma or GED.

This commitment to equal opportunity encompasses:

- A. For every student the right:
- of access to all courses including career education courses and programs;
 - to physical education and to participation in interscholastic, intramural, and club athletics;
 - to equal treatment, including financial aid assistance, counseling, employment assistance, honors and awards, and extracurricular activities.
- B. For every individual the right to personnel, employment, and College business practices that provide equal opportunity and equity.

Pursuant to its obligations under the Federal and State statutes, and in conformity with other legal and moral obligations, the College has on staff a Diversity Officer within the Office of Human Resources to implement the commitment of the College.

Inquiries or complaints by College students, prospective students, employees, employee applicants, and persons providing services to or for the College, which concern nondiscrimination policies or procedures may be directed to:

Assistant Director, Human Resources and Diversity (Diversity Officer)

Lake Michigan College
2755 East Napier Avenue
Benton Harbor, MI 49022-1899
(269) 927-8102
Room A-305

OR

Michigan Department of Civil Rights
185 E. Main Street, Suite 602
Benton Harbor, MI 49022
(269) 925-7044 or
1-800-482-3604

No act of retaliation will occur to any person making a charge, filing a complaint, testifying, or participating in any discrimination investigation or proceeding.

The Diversity Officer will, upon request, provide a copy of the Lake Michigan College grievance procedures, and will investigate each complaint according to such procedures. A copy of relevant laws, regulations and policy may be found in the Office of Human Resources and with the Diversity Officer.

Sexual Harassment Policy

The Elliott-Larsen Civil Rights Act prohibits discrimination based on race, color, religion, national origin, age, sex, height, weight, marital status, arrest record, and disability in all employment practices, including terms, conditions, and privileges of employment. This act prohibits discrimination and provides specific remedies and penalties. Title IX of the Educational Amendments of 1972 prohibits sexual harassment of students in any part of any higher education institution receiving federal funds and requires institutions to maintain grievance procedures capable of prompt and equitable resolution of sexual harassment complaints.

Lake Michigan College prohibits sexual harassment in its employment practices and in its educational programs and activities.

Sexual harassment consists of unwelcome sexual advances, including unwanted touching; verbal remarks of a sexually suggestive or derogatory nature; requests for sexual favors; and other verbal or physical behavior of a sexual nature which have as their consequence an adverse effect on the recipients' morale, work status, or academic or job performance. Such conduct is absolutely prohibited whether the perpetrators are students, employees of the College or contractors, or other non-employees who have reason to be on College premises where:

- A. submission to such conduct is either an expressed or implied condition of employment, education, or academic, financial, or counseling assistance,
- B. submission to or rejection of such conduct is used as a basis for an employment decision or the performance evaluation of students or staff, or
- C. the conduct has the purpose or effect of substantially interfering with an affected person's work or scholarly performance, or creating an intimidating, hostile or offensive work, or education environment.

The College will actively investigate any allegations of sexual harassment by students or staff, and if it is determined that sexual harassment has occurred, will take prompt and appropriate disciplinary action.

Anyone who believes that sexual harassment has occurred is expected to report such conduct promptly under appropriate College procedures.

Grievances

- A. Definition: A discrimination grievance is an unresolved complaint by any member of the faculty, staff, or any student that there has been a violation or misinterpretation of the College's Diversity/Nondiscrimination policies and procedures or of any antidiscrimination provisions of law. The following are not subject to the grievance procedure:
1. Decisions to reduce the work force;
 2. the contents of evaluations;
 3. the modification, amendment, or repeal of any Board policy;
 4. the modification, amendment, or repeal of any operational procedure of the administration, unless it violates Board policy.
- B. The collegewide grievance procedure will be used to resolve all grievances.
- C. A grievant must join in a single grievance proceeding for every claim that he or she has arising out of the same transaction or occurrence, even where it is asserted that the transaction or occurrence has violated more than one Board policy, administrative procedure, or law. A grievant is prohibited from filing more than one grievance concerning the same transaction or occurrence.
- D. Forms: The administration has developed grievance forms for use in processing grievances. All grievances must be signed by the aggrieved person and must specify the date or dates upon which the complained of action occurred; the policy, procedure or law which is claimed violated; the facts upon which the aggrieved person relies; and the relief requested. *Grievance Procedures and forms for Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Age Discrimination Act of 1975 may be obtained in Human Resources.*

Repeating Courses

Courses that are repeated will result in the highest grade earned to be used for calculation of the GPA, compute honor points, and fulfill requirements for graduation. Any course in the College catalog may be taken more than once to better a grade; however, only those courses so specified in the catalog's course description can be taken more than once for additional credit. No course may be retaken more than three times for credit; this means one original and three retakes for a total of four times for course credit.

Sexual Harassment

See Non-Discrimination

Smoking Policy

In accordance with the Michigan Clean Indoor Act, P.A. 198 of 1986 and the Berrien County Clean Indoor Air Regulation of 2007, the Smoking Policy is as follows:

All Campuses: Smoking is strictly prohibited in all enclosed areas within this workplace, without exception. This includes common work areas, auditoriums, classrooms, conference and meeting rooms, private offices, elevators, hallways, cafeterias, employee lounges, stairs, restrooms, employer owned or leased vehicles, storage areas, closets, lobbies, reception areas, and all other enclosed facilities. This policy applies to all employees, clients, independent contractors, students, and visitors.

Smoking is prohibited within twenty-five feet of entrances, windows and ventilation systems except in designated areas. All smoking trash receptacles and ashtrays shall be placed outside the no smoking area to discourage smoking in those areas.

Napier Avenue Campus: Smoking is prohibited at the B-Wing entrance to allow parents and children to enter and exit the building without passing through second hand smoke.

Mendel Center: Smoking is only permitted within the building when it is part of a stage production.

South Haven Campus (Van Buren County): Pursuant to the goal of protecting the public health and welfare by regulating smoking in public places and places of employment, the South Haven Campus will follow the same requirements set forth by the regulation for our Berrien County campuses. Smoking is prohibited in front of the childcare entrance to allow parents and children to enter and exit the building without passing through second hand smoke.

No Retaliation: No person or employer shall discharge, refuse to hire or in any manner retaliate against any employee, applicant for employment, student, or customer because such employee, applicant, student, or customer communicates a desire for a smoke-free environment.

Student Code of Conduct

Introduction and Purpose

Lake Michigan College (LMC) seeks to foster a secure learning environment. The Student Code of Conduct sets forth expectations for individuals who choose to become part of the College community. Students attending LMC are responsible for adhering to LMC's Student Code of Conduct, Rules, Regulations, College Policies, and all local, State and Federal laws.

Definitions

- **Accused Student** – Any student accused of violating this Student Code of Conduct or the general College rules.
- **Appeal** – A request to review a previous College decision. All students are required to state their appeal in writing at the time they begin the appeal process.
- **Campus Designee** – A College appointee who is responsible for initiating the judicial process at the local level.
- **Campus Student Discipline Committee** – Executive Dean, Student Services; the Public Safety Director/Evening Administrators; and an Instruction representative appointed by the Vice President, Instruction. Director, Student Resource Center serves as an alternate as needed.
- **College** – Lake Michigan College

- **College Officials** – Administrative and executive Officers and their designees.
- **Complainant** – Any person who submits a charge alleging that a student violated this Student Code of Conduct or the general College rules.
- **Criminal Activity** – Any alleged violation of local, State, or Federal laws.
- **Off-campus** – Off-campus classes, including on line, utilize LMC resources including faculty, internet, or intranet services, whether or not directly operated by LMC.
- **On-campus** – All property owned, operated, maintained, controlled, or leased by LMC.
- **Property Belonging to LMC** – All land, buildings, facilities, or other grounds or structures, including adjacent streets and sidewalks, or any item in possession of or owned, used, loaned, leased, maintained, or controlled by LMC or funded by LMC budgets, including computers and network systems, library materials, classrooms, and laboratories used for LMC purposes.
- **Reinstatement Committee** – this committee will review and make decisions related to suspended students requests for reinstatement to the College. Requests will only be considered after the original suspension has lapsed.
- **Student** – an individual, who is currently enrolled, has been enrolled, or who has applied to be enrolled in the College.
- **Student Appeals Committee** – A group of persons authorized by the Executive Dean, Student Services (or his/his designee) to consider whether a student has violated the Student Code of Conduct.

Jurisdiction

This Code applies to:

- The on-campus conduct of all students and registered student organizations.
- The off-campus conduct of students and registered student organizations in direct connection with the use of College resources, including the campus network; academic course requirements, such as internships, field trips, international study, or experiential learning activities; any activity supporting the pursuit of a certificate or degree, such as research at another institution; and any activity sponsored, conducted, or authorized by LMC or by registered student organizations.
- Off-campus conduct that negatively impacts LMC such as threats of violence or physical harm, unlawful harassment, or other conduct which may have a negative impact or may place its community (inclusive of students, employees or faculty) at risk.

This Code also applies to:

- Any activity that causes substantial risk of destruction of property belonging to LMC or causes serious risk of harm or endangers the health or safety of members of the LMC community, including students, staff, and members of the public when participating in LMC events or activities.
- Or any activity in which a police report has been filed, a summons or indictment has been issued, or an arrest has occurred for criminal activity.

Student Rights

Students of LMC are guaranteed all rights, privileges, and freedoms granted to a citizen of the United States. In addition, they are entitled to an environment that is conducive to learning and individual growth. To this end, students enrolling at LMC assume a responsibility for the College's student conduct regulations, just as they assume a citizen's responsibility to abide by Federal, State, and

local laws. Violation of statutory laws or the College student conduct regulations or specific departmental rules may lead to disciplinary action(s) by LMC.

Student Responsibilities

Students are expected to conduct themselves as responsible individuals in accordance with institutional policies, rules, and regulations. In developing responsible student conduct, the institution prefers advisory, guidance, admonition, and example. However, when these means fail to resolve problems of student conduct and responsibility, appropriate disciplinary procedures will be followed.

Prohibited Conduct

Misconduct for which students are subject to disciplinary action falls into the general areas of academic dishonesty, threatening physical and verbal behavior, and violations of civil or criminal statutes and/or institutional policies, rules and regulations. A student found to have committed or attempted to commit the following misconduct is subject to disciplinary sanctions:

- **Academic Honesty:** This means that all academic work will be done by the student to whom it is assigned without giving or receiving unauthorized aid of any kind. Instructors will exercise care in the planning and supervision of academic work so that honest effort will be positively encouraged. Cheating and plagiarism are the two most obvious violations of academic honesty. No student shall engage in behavior that, in the judgment of the instructor of the class, constitutes cheating, fabrication, lying, plagiarism, or theft of academic property. In brief, plagiarism is borrowing ideas, words, organization, etc., from another source or person and claiming them as original. Any dishonest activity may result in failure of specific assignments or an entire course. Falsifying, forging, or altering of student records, College documents, and records or instruments of identification or providing false information to any official, College employee, or office also constitutes academic dishonesty and is subject to disciplinary action up to and including dismissal from Lake Michigan College
- **Alcohol and Drugs:** The unlawful manufacture, distribution, possession and/or sale of drugs, and unauthorized use and/or sale of alcohol on any LMC property or off campus sites such as hospitals or clinics is illegal and counter to the mission of the College.
- **Assault and Battery:** Any conduct, including but not limited to, physical harm or abuse, bullying, verbal abuse, use of profanity, threats, intimidation, harassment, or coercion, or any behavior that threatens or endangers the health, safety, or well-being of any person is prohibited at any location providing College services.
- **Assembly:** No student or students shall assemble in a manner that obstructs the free movement of persons about the campus or that interferes with the normal operation of College programs and services.

- **Athletic Conduct:** Student athletes represent LMC in special ways by bringing public and private recognition of the community to LMC. Therefore, the Athletic Department imposes a higher standard of conduct on its student-athletes. The Code set forth below indicates what criteria may be used to suspend or dismiss a student-athlete from an intercollegiate team.
 - Athletes are required to abide by all local, State, and Federal laws, as well as LMC rules and regulations.
 - Team practice and game match rules and regulations are to be adhered to at all times.
 - Athletes are to comply with reporting at a designated time for home athletic contests or departure to or from off-campus competitions unless they have received prior permission of the respective coach to alter their reporting time.
 - Athletes are to adhere to rules regarding tardiness or absenteeism. More than two occasions of tardiness or absenteeism without prior approval of the coach for practice, team departure or any away contest/event, or sports medical treatment will subject the athlete to team suspension.
 - Student-athletes must demonstrate high standards of sportsmanship and fair play while participating in an intercollegiate athletic LMC program.
 - Student-athletes must interact appropriately with teammates, coaches, sports medicine, and support staff. Insubordination in dealing with the coaches, athletic administrative staff, or sports medicine staff will be grounds for suspension or dismissal.
 - Student-athletes must conduct themselves in a manner which brings credit to themselves, their teammates and LMC. Conduct or being involved in activities which could bring negative public opinion to the team or athletic department of LMC is considered a violation of the Code of Conduct.
 - Student-athletes are required to attend classes and study tables to maintain academic standards established by LMC. Athletes who are put on academic, social or disciplinary probation, or suspension from LMC are subject to suspension or dismissal from the intercollegiate team.
- **Classroom Misconduct:** Classroom misconduct is any substantial behavior which disrupts or interferes with the learning experience. Students are required and expected to conduct themselves as mature, considerate adults. Students should conduct and express themselves in a way that is respectful to all persons. This includes respecting the rights of others to comment and participate fully in class.
- **Compliance with Applicable Law:** No student shall violate any College policy, rule or regulation or other local, State or Federal law, ordinance or regulation on College-owned or operated property or in connection with any College-sponsored program, course of study or activity.
- **Complicity in Violating the Student Code of Conduct:** Includes attempting, aiding, abetting, conspiring, hiring or being an accessory to any act prohibited by this Code. If a student has knowledge of another student, individual, or group committing or attempting to commit a violation of the Code, he or she is required to remove him- or herself from the situation and report it to the College.
- **Contracts:** No student shall enter into any contract in the name of the institution except with prior written authorization from appropriate College officials.
- **Dishonesty:** No student shall furnish false and/or misleading information to the College regarding their admission or attendance. The omission of information shall be considered furnishing false and/or misleading information.
- **Disruptive Behavior:** A student shall not behave in a manner that disrupts the academic atmosphere of the institution or that endangers the rights and/or safety of the student or other persons.
- **Failure to Comply:** A student shall comply with the direction of institutional officials, faculty, staff, or security officers in performance of their duties and identify oneself to these persons when requested to do so. All students will wear or carry an LMC-issued photo identification.
- **Gambling:** A student shall not engage in any form of gambling on College-owned or operated property that is not a college-sponsored activity.
- **Harassment:** A student shall not engage in harassment or bullying of another person in violation of federal and/or state law.
- **Indecent or Obscene Behavior:** A student shall not engage in any indecent or obscene behavior.
- **Keys:** A student shall not engage in the unauthorized possession, duplication, or use of keys to any institutional facility nor engage in unauthorized entry to or use of institutional premises or property.
- **Obstruction/Abuse of Grievance Procedure:** Includes but is not limited to:
 - Failure to comply with a summons of the Student Appeals Committee.
 - Falsification, distortion, or misrepresentation of the information to the Student Appeals Committee.
 - Disruption or interference with the orderly process of a discipline hearing.
 - Attempting to discourage an individual's proper participation in or use of the Student Discipline Grievance Procedure.
 - Attempting to influence the impartiality of a member of the Student Appeals Committee prior to and/or after a Student Discipline Grievance Procedure.
 - Verbal or physical harassment and/or intimidation of a member of Student Appeals Committee prior to, during, and/or after a Student Discipline Grievance Procedure.
 - Failure to comply with decisions, recommendations or sanctions imposed by the Student Appeals Committee.
 - Influencing or attempting to influence another person to commit an abuse of the Student Discipline Grievance Procedure.
- **Registered Sex Offender:** A student who is convicted of a felony or a crime requiring listing on the sex offender registry shall notify the Executive Dean, Student Services of such status.
- **Safety:** A student shall not engage in behavior that violates any safety rules of any classroom, laboratory, or other institutional facility. This shall include, without limitation, the wearing of any required personal safety equipment and following prescribed methods and procedures for handling and disposing of materials, which may be hazardous, unstable, contagious, etc.

- **Signs:** A student shall not erect or display signs or posters on College-owned or operated property unless authorized by the institution. A student shall not deface, alter, tamper with, destroy or remove any sign or inscription on College-owned or operated property.
- **Soliciting:** A student or organization may not use institutional facilities, solicit funds or goods on or off-campus, or schedule activities unless such action has been approved by appropriate institutional officials. Students may post information on identified, public boards on each campus.
- **Smoking and Use of Tobacco:** In accordance with the Michigan Clean Indoor Act, P.A. 198 of 1986, LMC maintains a smoke-free environment. Smoking is not allowed inside the Napier Avenue Campus academic building, the Mendel Center, the Bertrand Crossing Campus, M-TEC facility, or South Haven Campus. Smoking and use of tobacco products is not allowed anywhere inside the premises, including restrooms and private offices, or other space owned, operated, or leased by LMC, or in any College vehicles. Employees and students who are found smoking or using tobacco products outside of the designated smoking areas will be considered in violation of College policy and will be subject to discipline in the same manner as violations of other College policies. (Also see Smoking Section of the Student Handbook.)
- **Theft or Other Abuse of Computer Time:** This is addressed in detail in the College Handbook. (See Computer Lab Procedures section of the Student Handbook.)
- **Theft and Vandalism:** A student shall not engage in attempted theft of and/or damage to property of the institution or a member of the College community or other personal or public property.
- **Use of Institutional Facilities:** Unlawful or unauthorized use of the institutional facilities is prohibited.
- **Weapons:** A student shall not possess, use, or threaten to use weapons or explosives on any College-owned or operated property or at a College-sponsored activity except as specifically authorized in writing by appropriate College officials. (Also see the Weapons Free Campus Policy.)
- **Other Prohibited Misconduct:** The College reserves the right to evaluate and document special cases and to refuse admission and/or continued enrollment if the College determines that the applicant/student is a threat or a potential danger to the College community or if such refusal is considered in the best interest of the College. The Executive Dean of Student Services may specify other behaviors that shall constitute student misconduct, subject to the approval of the President.

Judicial Process

When reports of alleged violation of the Student Code of Conduct surface, they are addressed by the Executive Dean, Student Services. The steps followed to resolve formal disciplinary matters are called the judicial process. The judicial process exists to ensure that basic due process is granted to all LMC students who find themselves in conflict with the College standards. Students, faculty, and staff may report possible infractions.

Due Process

Due Process is the guarantee of student civil rights under the Constitution of the United States and the laws and regulations of Michigan and Lake Michigan College. Due Process is that process which prevents rights from being taken away from an individual without notice and an opportunity to respond to allegations.

Due Process requires that the Executive Dean, Student Services (or his/her designee) shall meet with the student as soon as possible after the alleged violation of the Student Code of Conduct and at such meeting the Executive Dean, Student Services shall provide the student with (1) notice of the alleged violations of the Student Code of Conduct, (2) the facts upon which the alleged violation is made, and (3) an opportunity to discuss the alleged violations and to be heard. Within five (5) school days of the meeting, the Executive Dean, Student Services will provide the student with notice of the decision and information regarding the appeal process, if applicable.

Incident Reporting Process

Anyone wishing to report student misconduct shall document all relevant information via a LMC Complaint Resolution Forms beginning on page 160, which shall be provided to a member of the campus administration. When a written incident report is filed, it shall be forwarded to the Executive Dean, Student Services. Following review of the incident report (which may include, without limitation, any and all research deemed appropriate regarding the underlying incident), a determination will be made by the Executive Dean, Student Services (in possible consultation with other campus and/or College leadership) whether charges of misconduct should be filed in response to the incident.

When a report of possible infraction of the Student Code of Conduct is received by the Office of the Executive Dean, Student Services, the following process is implemented:

1. The report of alleged misconduct is reviewed by any of the following: The Executive Dean, Student Services or his/her designee, the Director of Intercollegiate Athletics, or the Director of Student Life. This review will determine suitable address of the matter, including whether judicial action should be initiated and may include contacting the student reportedly involved in the incident and/or other witness(es) to seek additional, clarifying information. Review of a reported incident does not, in itself, constitute judicial action.
2. If it is determined that judicial action should be initiated to resolve a more serious infraction, written notice of judicial charges and sanctions is sent to the student's local address listed in College records and a meeting with the accused student is conducted by either the Executive Dean, Student Services or his/her designee, the Director of Intercollegiate Athletics, or the Director of Student Life.
3. Failure or refusal to pick up or accept a letter does not remove the student's obligation to adhere to any instructions, sanctions, or deadlines issued in the letter.
4. A student may not avoid adjudication of an alleged policy infraction by withdrawing from the College. Should a student withdraw or depart from the College before investigation and/or adjudication of an alleged infraction is completed, the judicial process may proceed, and appropriate sanctions for confirmed charges may be issued. Pending resolution of a disciplinary matter, a hold will be placed on the absent student's transcript.

Academic Grievance Procedure

(See College Handbook.)

Discipline Grievance Procedure

The Executive Dean of Student Services handles matters that require disciplinary action at Lake Michigan College. All students at the College are guaranteed due process (see Due Process section of this document) in disciplinary matters. When a student has been charged with misconduct or an infraction of the College rules, the Executive Dean, Student Services will confer with the student charged. The student will be informed of his/her right to have an advisor present during this conference. Pending action by the Executive Dean, Student Services on the charges, the status of the student will not be altered, nor will his/her right to be present on the Campus and to attend classes be suspended, except for reasons related to the safety and/or well being of other LMC students, employees, or property. The Executive Dean, Student Services shall be the person to make the decision to suspend with regard to safety or property.

Disciplinary actions taken by the Executive Dean, Student Services toward a student found responsible for misconduct or a violation of College rules may include, but are not limited to, an oral warning up to expulsion from the College. See sanctions below.

Sanctions

Any combination of the following sanctions or other sanctions may be imposed through the judicial process. Multiple and/or repeated violations typically result in increased sanctions. The sanctions listed are not inclusive, but merely serve as guidelines:

- 1. Formal warning:** a written reprimand that expresses disapproval of the student's actions and warns against any potential violations of College policy in the future.
- 2. Probation:** a period of observation and review. The length of this period of probation will be determined by the Executive Dean, Student Services. If found responsible for violating any College policies or failure to comply with other requirements stipulated during this period, the student may be immediately suspended from the College and/or its events pending further disciplinary review.
- 3. Suspension:** immediate dismissal from classes and activities at the College for at least the remainder of the session/semester in progress and/or a specified period of time thereafter. Any additional violations or failure to comply with other requirements stipulated during this period of suspension may result in expulsion. During suspension, the student is not permitted to visit the College premises or attend any College functions without prior written permission from the Executive Dean, Student Services. Any student who is suspended due to misconduct will not be entitled to any refund of tuition or other fees after financial aid is adjusted.
- 4. Expulsion:** the most severe sanction for violation of College policy is expulsion, which results in immediate dismissal and permanent separation from the College. Any student who is expelled due to misconduct will not be entitled to any refund of tuition or other fees and may incur additional charges and fees after financial aid is adjusted.

- 5. College property restrictions:** restriction from certain College facilities or property, either physical or virtual, for a definite period of time.
- 6. Fine:** a monetary penalty for property damage, theft, or other violations that result in inconvenience or cost to others.
- 7. Parental notification:** as permitted by law, the College reserves the right to disclose to parents/stion of College regulations and policies and Federal, State and/or local laws governing the use of alcohol or a controlled substance. The College may notify parents/legal guardians of alcohol or a controlled substance violation if the student is under the age of 21. The Executive Dean, Student Services determines the circumstances under which parental notification takes place.
- 8. Restitution:** compensation for loss, damage, or injury. This may take the form of appropriate service and/or monetary or material replacement.
- 9. Educational sanctions:** a student is required to write a paper, plan and present a program, attend a class or seminar, or complete other educational requirements.
- 10. Loss of privileges:** denial of specified privileges for a designated period of time.
- 11.** Disqualification from receipt of institutional financial aid while the sanction is imposed or possibly thereafter.
- 12. Interim suspension:** temporarily restrict student(s) from campus/College activities pending a hearing.

Complaint Resolution Process

The College encourages resolution of issues at the informal level, but realizes that may not always be possible. An unresolved complaint may lead to the Student Appeal Committee for resolution. Also, students who have been suspended or expelled from the College by the Executive Dean, Student Services may proceed to Step 4, Complaint Resolution Process by submitting a written appeal request to the Executive Dean, Student Services, who will forward the appeal to the chair of the Student Appeals Committee.

A. Informal Resolution

Step 1:

Faculty, adjunct, staff, or student identifies a problem/issue/behavior requiring resolution to a faculty, adjunct, staff, or students, as the situation defines.

Prior to the next scheduled class meeting (for faculty and adjunct faculty) or within five (5) business days, the faculty, adjunct, or staff and student(s) will meet face-to-face to identify the conflict/issue/problem and work to a resolution/solution. The problem and solution will be briefly detailed on the LMC Complaint Resolution Form and filed with the Ombudsperson. If the issue is resolved, the student returns to class/campus. If the problem is unresolved, the student is handed a copy of LMC Complaint Resolution Form and the resolution of the problem moves to the formal steps.

B. Formal Resolution

Step 2:

Within five (5) business days, the aggrieved must articulate the problem in writing on the LMC Complaint Resolution Form and meet for the second time with the faculty, adjunct, or staff member in an attempt to resolve the issue. Input from the faculty or staff member is added to the LMC Complaint Resolution Form.

Step 3:

Without resolution, the aggrieved has five (5) business days to meet with the Department Chair of the identified faculty for academic issues or the Director of Intercollegiate Athletics for non-academic issues for continued resolution and appeal. The LMC Complaint Resolution Form used in Steps 1 and 2 follows the complainant. In the academic complaint, the faculty has to agree with the resolution reached by the Chair. If the faculty disagrees with the Chair's resolution or the staff with the Director of Intercollegiate Athletics resolution, the issue can be moved to step 4 by the faculty/staff member.

Step 4:

Without resolution, and within five (5) business days after the meeting for Step 3, the LMC Complaint Resolution Form must be filed with the Student Appeals Committee. The Executive Dean, Student Services will forward the request for appeal to the Student Appeals Committee where the Committee has seven (7) business days to set a hearing date where the faculty, staff and/or student will be required to make their case, present evidence and share their perceptions for the Committee to consider.

Step 5:

Within seven (7) business days after hearing all the evidence and perceptions, the Student Appeals Committee will render a decision. The resolution will be communicated in writing on the LMC Complaint Resolution Form and is final. If at any Step the issue is resolved, the LMC Complaint Resolution Form is completed, distributed as necessary (aggrieved, faculty/staff, Executive Dean) and filed with the Office of the Executive Dean, Student Services.

Student Appeal Process for Disciplinary Grievances (non-academic):

A student found responsible for violating the Student Conduct Code may submit a written appeal request to the Executive Dean, Student Services, who will forward the appeal to the chair of the Student Appeals Committee.

All appeals must:

1. Be submitted no later than five (5) business days after the student(s) has been notified of a decision.
2. Specify the grounds for the appeal.
3. Provide the necessary detailed information to support their position.

The College reserves the right for the Executive Dean, Student Services to suspend the normal judicial process under the following circumstances: cases where a student may present a threat of harm to self, or others, to property, or are disruptive to the campus living and learning community.

Students who believe they have been treated unfairly by an instructor, administrator, staff member or employee have the right of appeal. This appeal process seeks equitable solutions to student complaints. This would not include grades, which would be administered through the Grade Appeal Process. Students can appeal through the Complaint Resolution process. Suspended or expelled students may proceed to Step 4 of the Complaint Resolution Form and request an appeal in writing of a College administrator's decision to the Executive Dean, Student Services explaining the reason for the appeal.

General Provisions

- a. A complaint is a claim by one or more students about being treated unfairly by LMC personnel, or that rights as outlined in the student handbook have been violated.
- b. All documents, communications, and records dealing with an appeal shall be filed by the Executive Dean, Student Services. All records of actions under this procedure shall be held in strict confidence and will be available to the student initiating the appeal or his/her representative.
- c. Hearings and conferences held under this procedure shall be conducted at a time and place that will afford a fair and reasonable opportunity for all appropriate persons to be present. When such hearings and conferences are held during College hours, employees who are required to attend shall be excused to do so with no reduction in pay. Students who are required to attend will be excused from classes with no penalty.

Student Appeals Committee

1. Jurisdiction

The Student Appeals Committee shall hear and determine appeals in the following situations: Student-, faculty-, or staff-generated complaints concerning student conduct excluding grades. The decision of the Student Appeals Committee is final.

2. Composition

The Student Appeals Committee shall consist of two (2) students from the Student Senate, two (2) faculty from outside the division*, two (2) administrators outside the division and one (1) classified staff. The Director of Intercollegiate Athletics will chair and facilitate the Student Appeals Committee and is a non-voting member. The Student Senate, Divisions and Departments will annually create a pool of participants from which to draw committee members.

*Division refers to that of the faculty referenced in the complaint.

3. Ombudsperson

Any full-time staff and/or faculty member can serve as the Lake Michigan College Ombudsperson for terms of one (1) year and is appointed by the Executive Dean, Student Services. The Ombudsperson's primary duty is to assist students in resolving complaints or disputes within the College. The Ombudsperson also helps staff members, instructors, and administrators sort through College rules and regulations that might apply to specific issues and concerns. The Ombudsperson carries out these duties in a neutral, confidential, informal, and independent manner.

Current Napier Avenue and M-TEC Campuses Ombudsperson is the Director of Student Life, Room D-103 (Gathering Place), (269) 927-8100, ext. 5206.

Current South Haven Campus Ombudsperson is the Director of Student Services, Room SH-116, (269) 637-7526.

Current Bertrand Crossing Campus Ombudsperson is the Director of Student Services, Room BC-101b, (269) 695-2988.

Following a request for assistance, the Ombudsperson will take one or more of the following actions: (1) listen carefully to the concern, (2) explain relevant student rights and responsibilities, (3) review relevant College policies or regulations, (4) suggest fair and equitable options, 5) refer the individual to an appropriate College or community resource, or (6) investigate, when necessary.

The Ombudsperson is available to all parties involved in Student Appeals Committee hearings, the final step in an effort to resolve a dispute.

NOTE: The Ombudsperson is not an advocate for any group on campus; instead the Ombudsperson is an advocate for fairness. The Ombudsperson also does not provide legal service, represent students or instructors at academic grievance or disciplinary hearings or mediate disputes between or among faculty or between faculty and administrators. The Office of the Ombudsperson does not accept formal complaints or notice for the College. Members of the LMC community may contact the Ombudsperson in person or by e-mail.

At any point in the process, the student, faculty, adjunct, or staff may enlist the assistance of the LMC Ombudsperson for procedural assistance. The Ombudsperson provides the LMC Complaint Resolution Form (also available from the offices of any Executive Dean) to the interested party at the initiation of the appeal process. Any informal records that are generated will be kept on file by the Ombudsperson.

The above procedure excludes issues related to sexual harassment, civil rights, Title IX, and disability concerns. Complaint procedures for these areas can be found in the College Policies section of the College catalog or directed to the Assistant Director of Human Resources and Diversity in Room A-305, (269) 927-8102.

Student Appeals Committee Hearings

The purpose of a hearing is to provide the opportunity for the campus designee or complainant and the respondent to present all relevant information and evidence with regard to the alleged misconduct. It is the responsibility of the Student Appeals Committee, as applicable, to consider impartially all relevant information and evidence, determine the facts, apply College policy, and impose appropriate sanctions if the respondent is found responsible for the alleged violation.

College judicial hearings are administrative hearings that allow flexibility and are not courts of law. Students may have an advisor

during the hearings, but not an attorney. The advisor cannot speak or ask questions during the hearings or interrupt the procedures in any way. The judicial process is separate and independent from any civil or criminal action and may proceed even if a related matter is anticipated or pending in other forums. Rules of evidence and the criminal standard of proof do not apply. Student Appeals Committee members, as applicable, are expected to find a student or student organization responsible for violations of College policies only if the information shows that it is more likely than not that misconduct occurred.

Student Appeals Hearing Procedures

Whenever a hearing in front of the Student Appeals Committee is to be held regarding an allegation of misconduct, the campus designee or respondent and the complainant shall be given at least three (3) business days' notice of the charges and the date, time, and place of the hearing. Failure of the respondent to attend the hearing will result in the case being heard in his or her absence.

The order of presentation of the hearing will normally be as follows:

1. Introductions and reading of the charge(s) by the Student Appeals Committee Chair.
2. The campus designee or complainant presents an opening statement.
3. The accused presents an opening statement.
4. The campus designee or complainant presents relevant evidence and witnesses.
5. The accused may question the campus designee or complainant's witnesses.
6. The Student Appeals Committee may question the campus designee or complainant's witnesses.
7. The accused presents relevant evidence and witnesses.
8. The campus designee or complainant may question the witnesses of the accused.
9. The Student Appeals Committee may question the accused's witnesses.
10. The Student Appeals Committee presents any witnesses called by the Student Appeals Committee itself.
11. First the campus designee or complainant and then the accused may question the Student Appeals Committee's witnesses.
12. Any witness may be recalled for further questioning by any participant.
13. The campus designee or complainant presents a final statement.
14. The accused presents a final statement.
15. The Student Appeals Committee deliberates privately and renders a decision.
16. The Student Appeals Committee Chair sends to accused student the decision in writing within seven (7) business days.

The Student Appeals Committee may ask questions of witnesses at any time and also facilitate the presentation of the case. The Student Appeals Committee may call additional witnesses or seek further evidence relating to a case if the Student Appeals Committee member desires clarification or further information.

All hearings shall be closed to everyone except the Student Appeals Committee appropriate College staff, the respondent, the campus designee or complainant, the observer/recorder selected by the College, and witnesses during the actual time of their testimony. The proceedings of the Student Appeals Committee hearings are presumptively confidential. Unauthorized disclosure of information by any party or witness involved during the hearing process may lead to disciplinary action.

The respondent is entitled to be present at the hearing, to hear and respond to evidence regarding the charges, to present witnesses, and to question witnesses and other evidence.

Witnesses must be members of the College faculty, staff or student body; unless the Student Appeals Committee rules that others may appear in the interest of the case. The respondent and complainant must give the names of all relevant witnesses to the campus designee at least two (2) business days before the hearing. The respondent and complainant will have access to the names of all witnesses. It is the responsibility of the respondent and complainant to notify all witnesses of the date, time, and location of a hearing. If a witness fails to appear, the hearing shall be held in his or her absence.

All relevant information will be admissible. The chair, in consultation with the Student Appeals Committee members, will determine relevance.

All evidence and information presented to the Student Appeals Committee is expected to be truthful, accurate, and complete. Failure to give truthful and complete information at a hearing may result in disciplinary action for a witness.

Following the proceedings, the Student Appeals Committee will meet in a private session to deliberate whether the respondent is responsible or not for the charges based on the Committee's judgment of whether it is more likely than not that misconduct has occurred. Decisions shall be based only on evidence presented at the hearing. The observer/recorder will remain in the session as a resource person, but will not participate in the deliberations. The Student Appeals Committee must reach a majority, with all members of the Student Appeals Committee giving input. The decision of the Student Appeals Committee is final.

General Student Complaints

General Complaints: Students with complaints regarding College operations not otherwise covered in the prior sections should report their concerns to the Executive Dean, Student Services or his/her designee. The following procedures shall apply.

Procedures:

- The Executive Dean, Student Services or his/her designee will receive a student's verbal or written complaint. The Executive Dean, Student Services or his/her designee will consider the merit of the complaint and will take any action considered appropriate or necessary. At this level, the student has the right to remain anonymous.
- If the student's verbal or written complaint is not resolved to the student's satisfaction and the student wishes to continue to pursue the complaint, the student must submit a request in writing to the Executive Dean, Student Services or his/her designee requesting further resolution. The written request must include the specific nature of the complaint, reasons for filing the complaint, and

specific remedy requested. At this level, the student may no longer remain anonymous. The Executive Dean, Student Services or his/her designee will seek a resolution by using the following means:

- Contact the appropriate College employee who is responsible for the College operation complained about and arrange a meeting between the parties involved to discuss a possible resolution. The written complaint will be forwarded to all appropriate parties involved in the conflict prior to the meeting. Should resolution not be reached, the Executive Dean, Student Services or his/her designee will review the complaint and all supporting material and render a written decision regarding the complaint with rationale.

Appeal Process:

- In the event that the Executive Dean, Student Services or his/her designee is unable to resolve the complaint, the complaint will be forwarded to Vice President, Instruction or his/her designee for review and action. The determination of the Vice President, Instruction or his/her designee shall be final. No further appeal will be considered.

Limitations:

- Student complaints shall not be the basis for any discipline against a supervisor, staff member, or faculty member so long as there is no evidence of unfair treatment of the student or discriminatory practice against the student.

Reinstatement to the College

If a student is dismissed or suspended from one LMC location, that individual is dismissed or suspended from all LMC locations. After one (1) calendar year the individual under dismissal or suspension may apply for reinstatement. The year starts at the time/date of official notification to the student from the Executive Dean, Student Services or his/her designee.

Prior to returning to campus, the Executive Dean, Student Services may, if deemed appropriate, require the student to be assessed by an appropriate psychological provider (e.g., licensed clinical mental health counselor, psychologist, psychiatrist, licensed social worker). The purpose of the evaluation is to assure:

1. The student is safe to return to campus and does not pose an immediate harm to him/her or others and is able to adequately care for him or herself.
2. The student is able to function both socially and academically and will not cause any disruption to the community and normal functioning of the College.

The individual must begin the reinstatement appeal process by informing, in writing, the Executive Dean, Student Services or his/her designee at the campus where the suspension or dismissal took place of his/her intentions. The letter should include a description of specific goals and supportive steps that the student will implement to help reduce the risk of another episode (or conduct issues) that caused the initial suspension or dismissal from the College. The appeal will be reviewed by the Campus Student Discipline Committee, who will act on the appeal within thirty (30) days of its receipt. The recommendation of the Student Discipline Committee will be final. If the reinstatement request is denied, the student may appeal for reinstatement again after an additional five (5) years.

Student Discipline and Due Process

A. Expulsion or suspension

1. All recommendations for expulsion or suspension shall be directed to the Executive Dean of Student Services, who may also initiate such action on his/her own authority. Where such recommendation is received, where the Executive Dean on his/her own authority determines such recommendation appropriate, the Executive Dean shall meet with the student within five (5) school days and shall provide the student with (1) notice of the recommendation, (2) the facts or allegations upon which the recommendation is made, (3) an opportunity to discuss the allegations and to provide such information as the student deems appropriate or relevant, and (4) the right to appeal.
2. Upon receiving a recommendation for expulsion or suspension, or upon determining on his/her own authority that such discipline is appropriate, the Executive Dean of Student Services may temporarily prohibit the student from attending any classes or participating in any other College activities until the meeting with the student is held.
3. At the conclusion of the meeting, the Executive Dean of Student Services may either (a) impose such lesser discipline as he/she deems appropriate under the circumstances, or (b) recommend to the President that such student be expelled or suspended. The Executive Dean shall notify the student of his/her recommendation and shall also notify the student of his/her appeal rights.
4. See Student Appeal Process and Complaint Resolution Procedure.

B. Exclusion from a Class or Course, Probation, or Reprimand

All recommendations for exclusion or removal from a course or class for reprimand or censure, or for probation must be initiated by a faculty member or adjunct. Or it may be initiated by the Executive Dean of Student Services upon his/her own authority. Where such a recommendation is received, or where the Executive Dean of Student Services, deems such discipline appropriate, he/she shall meet with the student within five (5) school days and both will follow the Academic Complaint Procedure.

Complaint – General Student

LMC is committed to providing a positive environment and educational experience for students. The College has clearly stated policies and procedural options that are available to students outlined in the College Catalog, Handbook and on the website to address academic and nonacademic disciplinary and behavioral type issues. Grievance procedures related to sexual harassment, civil rights, Title IX, and disability concerns can be found in the College Policies section of the College catalog or directed to the Assistant Director of Human Resources and Diversity in Room A-305, 269-927-8102.

Students having a complaint against faculty, staff, or administrative offices should first confer with the instructor, staff member or administrator in an effort to resolve issues through the Student Appeal Process and Complaint Resolution procedures.

Students with other general complaints regarding College operations not otherwise covered in the above procedures should report the complaint formally, in writing, to the Executive Dean of Student Services, located at LMC, 2755 E. Napier Avenue, Benton Harbor, MI 49022.

Institutional Records of Student Complaints

Formal Complaint:

Typically, a formal complaint is a written allegation of an inequity. An inequity may involve either an academic or non-academic function of LMC. A request for decision-making is not a complaint. For example, a student requests a waiver of a course requirement. This is a request, but itself, is not a complaint. LMC denies the waiver, and the student appeals. Once again, if this appeal is merely a request to reexamine the decision, it is probably not a complaint. If, however, the student alleges some type of personal injury from the decision or the student points out procedural unfairness or accuses the decision-making process of being unfair, this appeal may probably now be considered a complaint.

Resolution of a Formal Complaint:

1. A student seeking resolution to a formal complaint must submit a written request which includes the specific nature of the complaint, reasons for filing the complaint, and specific remedy requested to the Executive Dean of Student Services.
2. The Executive Dean of Student Services will consider the merit of the complaint and will take any action considered appropriate or necessary. If applicable, the Executive Dean of Student Services records the receipt of a complaint in the Student Complaint Log and refers the complaint to the appropriate LMC official.
3. The LMC official in receipt of a referred complaint from the Executive Dean of Student Services has five school days to schedule a meeting of the individual(s) involved in that complaint. If a satisfactory resolution is concluded, then the LMC official who received the complaint notifies the Executive Dean of Student Services that the complaint has been resolved, and an appropriate entry is recorded in the LMC Student Complaint Log.
4. If a satisfactory resolution to a complaint is not concluded, then the College official who received the complaint refers the matter back to the Executive Dean of Student Services for further review. The Executive Dean of Student Services has five school days from the receipt of an unresolved complaint to schedule a meeting of the individual(s) involved in that complaint. The decision of the Executive Dean of Student Services will constitute the final resolution of a formal complaint. No further appeal will be considered.

Formal Complaint Log

Formal complaints will result in an anonymous entry to the LMC Student Complaint Log. The Log is available for review by college staff, representatives of accrediting agencies, and by other, appropriate outside agencies. The names of any individuals involved in a complaint (including the names of any student(s) or LMC staff directly involved) are not part of the Log. The LMC Student Complaint Log will include the following information:

- A. A description of the complaint
- B. The date the complaint was received
- C. The category of the complaint (discrimination, sexual harassment, etc.)
- D. Steps taken to address the complaint
- E. The disposition of the complaint, including referral to an outside agency
- F. Any external actions initiated by a student and related to a given complaint

Maintenance of the Complaint Log

LMC will maintain, at a minimum, records of complaints for a two-year period. The Executive Dean of Student Services will maintain the LMC Student Complaint Log. Accrediting agencies and other, appropriate outside agencies will be able to review the Complaint Log in conjunction with accrediting visits and self studies.

Notice to Students

Complaint resolutions procedures are published on the LMC website, in the College Catalog and College Handbook and orientation courses. Students can get hard copies at any LMC Student Information Center location.

Student Information (Confidential) – Access to and Release Of

Present and former students shall have the right to inspect, review, and challenge the contents of their official records, according to the conditions set forth in the Family Educational Rights and Privacy Act of 1974.

Confidential records of students shall be released only under the following conditions:

1. Written authorization by the student.
2. Pursuant to court order, provided reasonable effort is made to notify the student prior to compliance.

Release of student information considered public information shall not be restricted by the above conditions. Lake Michigan College designates the information the College deems as public in compliance with FERPA rules.

To meet the requirements of the Carl D. Perkins Vocational and Technical Education Act, Section 113, and the Workforce Investment Act of 1998, Section 122, the College, under the auspices of the Office of Institutional Research (IR) may use student social security numbers to compile certain data for the purpose of instructional program improvement and Perkins and Workforce Investment Act reporting.

GRIEVANCE PROCEDURES For: Title VI of The Civil Rights Act of 1964, Title IX of The Education Amendments of 1972, and Section 504 of The Rehabilitation Act of 1973

Section I. If any person believes that Lake Michigan College or any part of the College organization has inadequately applied the principles and/or regulations of Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, and/or Section 504 of the Rehabilitation Act of 1973, he/she may bring forward a complaint, which shall be referred to as a grievance, to the College Affirmative Action Officer at the following address: Director, Human Resources & Affirmative Action Officer, Lake Michigan College, 2755 E. Napier Ave., Benton Harbor, MI 49022-1899.

Section II. The person who believes he/she has a valid basis for grievance shall discuss the grievance informally and on a verbal basis with the Affirmative Action Officer, who shall in turn investigate the complaint and reply with an answer to the complainant. He/she may initiate formal procedures according to the following steps:

Step 1. A written statement of the grievance signed by the complainant shall be submitted to the Affirmative Action Officer within five (5) business days of receipt of answers to the informal complaint. The Affirmative Action Officer shall further investigate the matters of grievance and reply in writing to the complainant within five (5) business days.

Step 2. If the complainant wishes to appeal the decision of the Affirmative Action Officer, he/she may submit a signed statement of appeal to the College President within five (5) business days after receipt of the Affirmative Action Officer's response. The President shall meet with all parties involved, formulate a conclusion, and respond in writing to the complainant within ten (10) business days.

Step 3. If the complainant remains unsatisfied, he/she may appeal through a signed, written statement to the Board of Trustees within five (5) business days of receipt of the President's response in Step 2. In an attempt to resolve the grievance, the Board of Trustees shall meet with the concerned parties and their representative within forty (40) days of the receipt of such an appeal. The complainant, at his or her discretion, may request a closed meeting with the Board. A copy of the Board's disposition of the appeal shall be sent to each concerned party within ten (10) days of this meeting.

Step 4. If at this point the grievance has not been satisfactorily settled, further appeal may be made to the Office of Civil Rights, Department of Education, Washington, DC 20201.

Inquiries concerning the non-discriminatory policy may be directed to Director, Office for Civil Rights, Department of Education, Washington, DC 20201. The College Affirmative Action Officer, on request, will provide a copy of the College's grievance procedure and investigate all complaints in accordance with this procedure. A copy of each of the Acts and the regulations on which this notice is based may be found in the College Affirmative Action Officer's office.

Transfer of College Credit

Students who have completed college coursework at regionally accredited post-secondary institutions participating in the Council on Post-Secondary Accreditation may receive credit toward a certificate or degree from Lake Michigan College. Students who wish a transfer credit evaluation must apply for admission to Lake Michigan College and request that an official copy of their previous academic transcripts be sent directly to the Records and Registration Office at Lake Michigan College. Only those courses in which a grade of "C" (2.00) or higher were earned will be considered for transfer.

Tuition and Fee Payment

Tuition and fees must be paid in full at time of registration, or payment arrangements through the Flex Pay Plan must be made at that time.

By registering for classes at Lake Michigan College, the student agrees to financial responsibility for all charges on their College account. The student also promises to pay Lake Michigan College the full amount of the obligation by the due date. Further, the student agrees to pay any and all costs, including collection, attorney, and litigation costs incurred by Lake Michigan College in its effort to collect, should the student default on his/her account.

Weapons Free Campus Policy

A. Purpose

The College wants to ensure a safe, weapon free campus. Unless a person can establish by clear and convincing evidence that the weapon was not knowingly possessed or that the person did not know or have the reason to know that the object was a weapon, violations of this weapons free policy will result in discipline and/or prosecution. Violations can result in expulsion, loss of job, a ban on attending campus facilities and events and/or criminal prosecution.

B. Definition

Weapons are defined, simply, as any instruments or implements which are capable of inflicting serious bodily injury, and shall include but not be limited to the following:

- Any gun, rifle, firearm, BB gun, pellet gun, or other device (including starter gun) which is designed to or may readily be converted to expel a projectile by any means.
- Any bomb, grenade, rocket or other destructive device which includes explosives, incendiaries or poison gas.
- Any knife with a blade longer than three inches, razor, or other cutting instrument.
- Any striking instrument, to include clubs, iron bar, brass knuckles, blackjack or bludgeon (excluding Athletic Department equipment—i.e., baseball bats).
- Any Martial Arts weapons, to include nunchakus, tonfas, staffs, and throwing stars.
- Any bow and arrow combination.
- Fireworks

Propellant sprays and electric stunning devices may be carried for personal protection and self defense purposes.

C. Policy

Weapons shall not be permitted in or on College buildings, facilities, grounds, vehicles, or other property at any time, or at any event in which the College participates in or sponsors except for College sponsored theatrical productions. Students, employees or visitors, other than peace officers, may not possess, either on their persons, in their vehicles, or in other College property under their control, weapons while on College property or while participating in College events.

D. Exceptions

Exceptions to this policy may be granted at the sole discretion of the President.

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LAKE MICHIGAN COLLEGE

Napier Avenue Campus

2755 E. Napier Avenue
Benton Harbor, MI 49022
(269) 927-8100

Bertrand Crossing Campus

1905 Foundation Drive
Niles, MI 49120
(269) 695-1391

South Haven Campus

125 Veterans Boulevard
South Haven, MI 49090
(269) 637-7500

M-TECSM at Lake Michigan College

400 Klock Road
Benton Harbor, MI 49022
(269) 926-6832



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